

BEA WebLogic Portal

Guide to Registering Customers and Managing Customer Services

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Guide to Registering Customers and Managing Customer Services

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About This Document

This document explains how to use the services available within BEA WebLogic Portal TM Registering Customers and Managing Customer services.

This document includes the following topics:

- Chapter 1, "Overview of Registering Customers and Managing Customer Services," which describes the high-level architecture and provides introductory information about the services.
- Chapter 2, "Customer Registration and Login Services," which describes the JSP templates, input processors, and Pipeline Components associated with the customer registration and login Web pages.
- Chapter 3, "Customer Profile Services," which describes the JSP templates, input processors, and Pipeline Components associated with the customer profile Web pages.
- Chapter 4, "Customer Self-Service," which describes the JSP templates, input processors, and Pipeline Components associated with the customer self-service Web pages.

What You Need to Know

This document is intended for the following audiences:

■ The commerce engineer/JSP content developer, who uses JSP templates and tag libraries to implement interactive Web pages to meet business requirements. This user also maintains simple configuration files.

- The business analyst, who defines the company's business protocols (processes and rules) for a business-to-consumer Web site. This user may set pricing policies and discounts, and may plan promotional advertising.
- The site administrator, who uses Commerce and Personalization Server administration screens to configure the site's rules, portals, property sets, user profiles, content delivery, and product catalog.
- The Java/EJB programmer, who creates custom code to insert in the JSP files. This user may also handle complex configuration files.

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If you do not have the Adobe Acrobat Reader, you can get it for free from the Adobe Web site at http://www.adobe.com/.

Related Information

The following BEA Commerce services documents contain information that is relevant to using the *Guide to Registering Customers and Managing Customer Services* and understanding how to customize or extend the provided services. (The links are to locally installed documentation; if you did not install documentation locally, you can locate this documentation on the e-docs Web site.)

- Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline
- Guide to Managing Purchases and Processing Orders
- Guide to Building a Product Catalog
- For more information about J2EE as it relates to WebLogic Server security, see the information posted on the Sun Microsystems, Inc. JavaTM 2 Platform, Enterprise Edition Web site at http://java.sun.com/j2ee/.

Contact Us!

Your feedback on the BEA Campaign and Commerce services documentation is important to us. Send us e-mail at **docsupport@bea.com** if you have questions or comments. Your comments will be reviewed directly by the BEA professionals who create and update the WebLogic Portal documentation.

In your e-mail message, please indicate that you are using the documentation for the BEA WebLogic Portal 4.0 release.

If you have any questions about this version of BEA WebLogic Portal, or if you have problems installing and running BEA WebLogic Portal, contact BEA Customer Support through BEA WebSupport at http://www.bea.com. You can also contact Customer Support by using the contact information provided on the Customer Support Card, which is included in the product package.

When contacting Customer Support, be prepared to provide the following information:

- Your name, e-mail address, phone number, and fax number
- Your company name and company address
- Your machine type and authorization codes
- The name and version of the product you are using
- A description of the problem and the content of pertinent error messages

Documentation Conventions

The following documentation conventions are used throughout this document.

Convention	Item		
boldface text	Indicates terms defined in the glossary.		
Ctrl+Tab	Indicates that you must press two or more keys simultaneously.		
italics	Indicates emphasis or book titles.		
monospace Indicates code samples, commands and their options, data structure their members, data types, directories, and filenames and their extension Monospace text also indicates text that you must enter from the key			
Examples:			
	<pre>#include <iostream.h> void main () the pointer psz</iostream.h></pre>		
	chmod u+w *		
	\tux\data\ap		
	.doc		
	tux.doc		
	BITMAP		
	float		
monospace boldface text	Identifies significant words in code. Example: void commit ()		

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Convention	Item
monospace italic text	Identifies variables in code. Example: String expr
UPPERCASE TEXT	Indicates device names, environment variables, and logical operators. Examples: LPT1 SIGNON OR
{ }	Indicates a set of choices in a syntax line. The braces themselves should never be typed.
[]	Indicates optional items in a syntax line. The brackets themselves should never be typed. **Example:* buildobjclient [-v] [-o name] [-f file-list] [-1 file-list]
	Separates mutually exclusive choices in a syntax line. The symbol itself should never be typed.
	Indicates one of the following in a command line: ■ That an argument can be repeated several times in a command line ■ That the statement omits additional optional arguments ■ That you can enter additional parameters, values, or other information The ellipsis itself should never be typed. Example: buildobjclient [-v] [-o name] [-f file-list] [-1 file-list]
·	Indicates the omission of items from a code example or from a syntax line. The vertical ellipsis itself should never be typed.

1 Overview of Registering Customers and Managing Customer Services

The processes related to customer profiles and self-service are necessary components of any e-business expecting return customers. To help you get to market faster than your competitors, WebLogic Portal provides you with the Registering Customers and Managing Customer services. This package contains default implementations for the most common pre- and post-order processing services (registration, login, customer profile creation/updates, and customer self-service pages). The registration and customer JSP templates also allow your site designers to customize these processes, without the need for advanced programming skills. This topic provides you with some background information about the Registering Customers and Managing Customer services, and introduces you to the types of services that are available.

This topic includes the following sections:

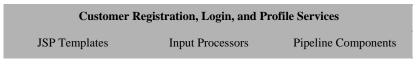
- What Are the Registering Customers and Managing Customer Services?
- High-level Architecture
- Template Quick Reference
- About the Database Schema
- Development Roles
- Next Steps

What Are the Registering Customers and Managing Customer Services?

The Registering Customers and Managing Customer services are a collection of JSP templates used to facilitate the registration of customers with your e-business site and the activities customers can perform after registering. There are services for registration, login, customer profile creation/updates, and so on. Additionally, the customer self-service pages provide your customers with the ability to check the status of orders and payments.

As shown in Figure 1-1, each service in the package consists of one or more JavaServer Pages (JSPs) and the business logic associated with them. Some of these templates may collect information from your customers, while others will simply display dynamic data your customer previously supplied. Some JSPs may do both. This logic is implemented as a combination of Input Processors and Pipeline Components, each of which can be modified to suit your needs. You can also create your own Input Processors and Pipeline Components to plug into the JSP templates for the Registering Customers and Managing Customer services.

Figure 1-1 Registering Customers and Managing Customer services





Because all of the business logic is managed by Pipeline Processor and accessed within a Pipeline Processor session, the state of your customers' experiences can be maintained. For detailed information, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline*.

In addition to the templates available in the Registering Customers and Managing Customer services, the Commerce services also contain templates for browsing the product catalog and for order and purchase processing. For information on services

related to the product catalog, see the *Guide to Building a Product Catalog*. For information on services related to order and purchase processing, see the *Guide to Managing Purchases and Processing Orders*.

High-level Architecture

The Registering Customers and Managing Customer services is essentially an application that utilizes the Webflow infrastructure. Before you begin to customize or extend this application, however, it is important that you have a high-level understanding of how all the JSP templates work together in the default Webflow. It is also important that you understand how this package works in conjunction with the order and purchase processing JSP templates described in the *Guide to Managing Purchases and Processing Orders*.

- For more information about the default Webflow, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline*.
- For more information about order and purchase processing, see the *Guide to Managing Purchases and Processing Orders*.

Figure 1-2 shows the ways in which a customer might move through the JSP templates in the login and registration portion of the Registering Customers and Managing Customer services. It also shows how the customer-processing services, the product catalog services, and the order and purchase processing services are used.

Note: The shopping cart management piece of the Webflow is not discussed in this document. For more information about the shopping cart and the checkout process, see "Shopping Cart Management Services" in the *Guide to Managing Purchases and Processing Orders*.

Figure 1-2 Default Webflow for Login/Registration

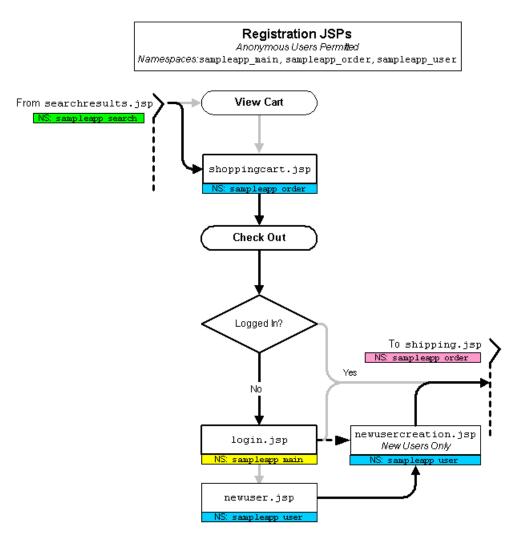


Figure 1-3 shows the ways in which your customer might move through the JSP templates in the customer-processing and customer self-service portions of the Registering Customers and Managing Customer services. It also shows how the product catalog services, the order and purchase processing services, and the login/registration JSPs are used.

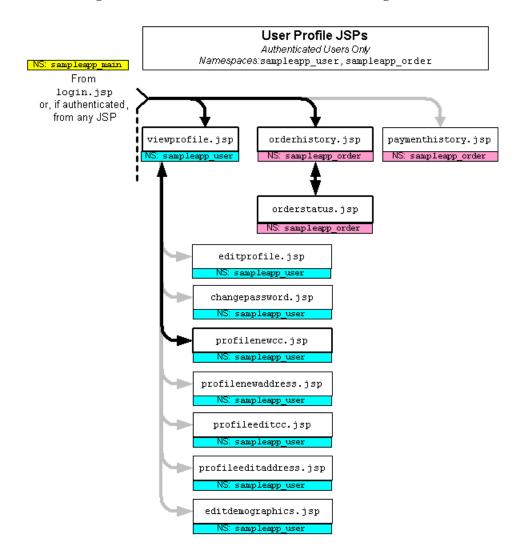


Figure 1-3 Default Webflow for customer Processing/Customer Self-Service

Note: All JSP templates include other templates, making it easy for you to create new pages with the same look and feel.

Whether you are customizing or extending this architecture, everything you need to know about the Registering Customers and Managing Customer services is provided in this document.

Template Quick Reference

The JSP templates in this guide are shown in the following table.

Table 1-1 Services JSP Quick Reference

Template Name	Location	Description
		<u>-</u>
login.jsp (see page 2-3)	PORTAL_HOME\applications\wlcs App\wlcs\commerce	Provides form-based submission of username and password to gain access to account, and a link to create a new user.
badlogin.jsp (see page 2-8)	PORTAL_HOME\applications\wlcs App\wlcs\commerce	Similar to login.jsp, displays an error message (includes login.jsp).
newuser.jsp (see page 2-11)	PORTAL_HOME\applications\wlcs App\wlcs\commerce\register	Empty profile fields for all personal information. Also includes a demographic survey to record user profile information.
newusercreation.jsp (see page 2-25)	PORTAL_HOME\applications\wlcs App\wlcs\commerce\user	Displayed after the user registers successfully - provides links to view cart, check out, and return home.
newuserforward.jsp (see page 2-31)	PORTAL_HOME\applications\wlcs App\wlcs\commerce	Redirects to the user/newusercreation.jsp.
usercreationforward.j sp (see page 2-33)	PORTAL_HOME\applications\wlcs App\wlcs\commerce\user	Used to redirect the newusercreation.jsp page after creating the user. This is done because the request does not contain the user information unless you do a redirect via the response object to the proper URL. This usercreationforward.jsp creates a new request that has the authenticated user's information, which allows the campaigns to start.

Table 1-1 Services JSP Quick Reference (Continued)

Template Name	Location	Description
viewprofile.jsp (see page 3-2)	PORTAL_HOME\applications\wlcs App\wlcs\commerce\user	Presents the known personal information for the logged-in user, with buttons for modifying and adding information.
editprofile.jsp (see page 3-12)	PORTAL_HOME\applications\wlcs App\wlcs\commerce\user	Change personal info (name, billing address, phones, email).
profilenewaddress.jsp (see page 3-21)	PORTAL_HOME\applications\wlcs App\wlcs\commerce\user	User may supply an additional new shipping address; includes newaddresstemplate.inc.
profileeditaddress.jsp (see page 3-27)	PORTAL_HOME\applications\wlcs App\wlcs\commerce\user	User may modify an existing shipping address in profile; includes editaddresstemplate.inc.
profilenewcc.jsp (see page 3-35)	PORTAL_HOME\applications\wlcs App\wlcs\commerce\user	User may supply new credit account info - includes newcetemplate.inc.
profileeditcc.jsp (see page 3-41)	PORTAL_HOME\applications\wlcs App\wlcs\commerce\user	User may change the credit account info as selected in payment.jsp - includes editcctemplate.inc.
changepassword.jsp (see page 3-51)	PORTAL_HOME\applications\wlcs App\wlcs\commerce\user	User may change their password.
editdemographics.jsp (see page 3-57)	PORTAL_HOME\applications\wlcs App\wlcs\commerce\user	Allows registered user to change demographic information that was entered previously.
orderhistory.jsp (see page 4-4)	PORTAL_HOME\applications\wlcs App\wlcs\commerce\order	User may view a summary of past or pending orders; may select one to view its contents, shipping dates, and other details.
orderstatus.jsp (see page 4-10)	PORTAL_HOME\applications\wlcs App\wlcs\commerce\order	Individual orders are displayed with their items, costs, status, shipping address and other details.
paymenthistory.jsp (see page 4-18)	PORTAL_HOME\applications\wlcs App\wlcs\commerce\order	User may view a summary of past orders organized by payment.

About the Database Schema

The database schema used for Registering Customers and Managing Customer services is the one used for the BEA personalization services. For more information about this database schema, see the "WebLogic Personalization Server Database Schema" in the *Guide to Building Personalized Applications*. Additionally, customer profiles in the BEA Commerce services are implemented as Unified User Profiles (UUP). For more information about UUP, see "Creating and Managing Users" in the *Guide to Building Personalized Applications*.

Development Roles

This document is intended for the following audiences:

- The commerce engineer/JSP content developer, who uses JSP templates and tag libraries to implement interactive Web pages to meet business requirements. This user also maintains simple configuration files.
- The business analyst, who defines the company's business protocols (processes and rules) for a business-to-consumer Web site. This user may set pricing policies and discounts, and may plan promotional advertising.
- The site administrator, who uses Campaign and Commerce services administration screens to configure the site's rules, portals, property sets, user profiles, content delivery, and product catalog.
- The Java/EJB programmer, who creates custom code to insert in the JSP files. This user may also handle complex configuration files.

Next Steps

Subsequent chapters of this document describe the Registering Customers and Managing Customer services in detail, and provide you with information about how to customize or extend the default implementations to meet your requirements. These chapters are as follows:

- "Customer Registration and Login Services"
- "Customer Profile Services"
- "Customer Self-Service"

2 Customer Registration and Login Services

For customers who plan on frequenting your e-business, it is beneficial to provide a way for them to store some personal information. In doing so, the ordering process will require less time because your customers will not need to reenter their name, address, payment information, and so on. For security, privacy, and management, however, this feature requires customers to log into your site with a username/password combination. This topic describes the JavaServer Pages (JSPs) and associated components that allow customers to register and log into your site by creating a customer profile.

This topic includes the following sections:

- JavaServer Pages (JSPs)
 - Login.jsp Template
 - badlogin.jsp Template
 - newuser.jsp Template
 - newusercreation.jsp Template
 - newuserforward.jsp Template
 - usercreationforward.jsp Template
- Input Processors
 - CustomerProfileIP
 - LoginCustomerIP
 - Pipeline Components
 - RegisterUserPC
 - EncryptCreditCardPC

JavaServer Pages (JSPs)

The Registering Customers and Managing Customer services contain a number of JavaServer Pages (JSPs) that handle customer registration (initial customer profile creation) and customer login. You can always use these templates for your Web site, or you can adapt them to meet your specific needs. This section describes each of these pages in detail.

Login.jsp Template

The login.jsp template (shown in Figure 2-1) allows a customer who has previously created a profile to log into your e-commerce site by providing a valid username/password combination. Since this page is the entry point to the checkout process, it also establishes mechanisms (such as sessions) that will allow customers to continue their shopping experience.

For customers who have not yet registered with your site, the login.jsp template provides customers with an entry point into a page that allows them to register (create their initial customer profile) for subsequent use on the site.

Sample Browser View

Figure 2-1 shows an annotated version of the login. jsp template. The black lines and callout text are not part of the template; they are explanations of the template components.

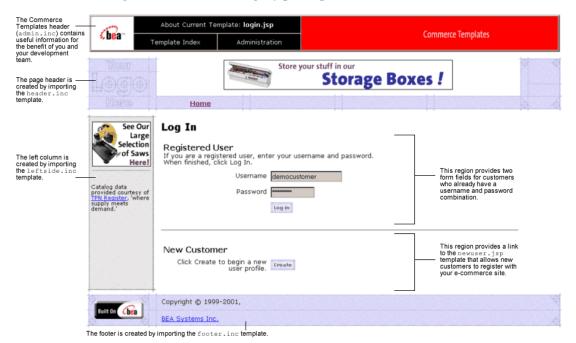


Figure 2-1 Annotated login.jsp Template

Location in the Directory Structure

You can find the login.jsp template file at the following location, where \$WL_PORTAL_HOME is the directory in which you installed Commerce services:

 $\label{local_portal_home_applications} $$ WL_PORTAL_HOME \cap \commerce \comm$

\$WL_PORTAL_HOME/applications/wlcsApp/wlcs/
commerce/login.jsp (UNIX)

Tag Library Imports

The login.jsp template does not use any custom JSP tags. Therefore, the template does not include imports of any JSP tag libraries.

Java Package Imports

The login.jsp template uses Java classes in the following packages and therefore includes these import statements:

```
<%@ page import="javax.servlet.http.*" %>
```

Location in Default Webflow

The login.jsp template itself is not part of the default Webflow. Rather, it is automatically loaded into the browser when a protected page is referenced by the WebLogic Server. It is part of the sampleapp_main namespace.

Note: All JSP templates in the /order and /user subdirectories are protected and are accessible only by registered and authenticated customers.

If the customer already has a username/password combination from prior registration and the customer's login is successful, the next page is the protected page the customer was attempting to access. If the customer's login is unsuccessful, the badlogin.jsp template is loaded.

If the customer is not yet registered and clicks on the Create button, the next page loaded allows the customer to create a profile and a username/password combination (newuser.jsp). After the customer has registered, the customer is automatically logged in and forwarded to the newusercreation.jsp template, which allows

customers to continue shopping, view their shopping carts, or check out. If the auto-login is unsuccessful, the login.jsp template is loaded for the customer to enter their username and password. If the customer's login attempt is unsuccessful, the badlogin.jsp is loaded.

Notes: The option to proceed to checkout is only provided on the newusercreation. jsp template if there are items in the customer's shopping cart.

For a detailed description of the main.jsp template, see "Product Catalog JSP Templates" in the *Guide to Building a Product Catalog*.

For a detailed description of the shoppingcart.jsp and shipping.jsp templates, see "Shopping Cart Management Services" or "Shipping Services" in the *Guide to Managing Purchases and Processing Orders*.

For more information about the default Webflow, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline*.

Included JSP Templates

The following JSP templates are included in the login.jsp template:

- admin.inc, which shows the name of the current template and contains links to
 its *About* information, the JSP Template Index, and the Administration Tools.
 The admin.inc template should be removed from the production pages before
 they are moved to your live server.
- header.inc, which creates the page header. It is standard across many of the JSP templates provided by the Commerce services. The import call is:

 include file="/commerce/includes/header.inc" %>
- leftside.inc, which creates the left column and secondary placeholder for advertising. It is standard across many of the JSP templates provided by the Commerce services. The import call is:

```
<%@ include file="/commerce/includes/leftside.inc" %>
```

Events

The login.jsp template presents a customer with two buttons, only one of which is considered an event. The event triggers a particular response in the default Webflow that allows customers to continue. The other button is a standard HTML Submit button that posts the page back to the WebLogic Server for authentication. Table 2-1 provides information about the event and the business logic it invokes.

Table 2-1 login.jsp Events

Event	Webflow Response(s)	
button.createUser	No business logic required. Loads newuser.jsp.	

Note: The Login button is not an event that would trigger a Webflow response. Rather, when a customer clicks the button, control is turned over to the WebLogic Server (specifically, the RDBMS realm of the WebLogic Personalization Server). The WebLogic Server remembers the HTTP request, determines whether the customer's username and password combination is correct, and then reinvokes the Webflow using the request. Since this authentication follows the WebLogic Server and J2EE specifications, more information on this topic can be found in documents at the BEA WebLogic Server 6.1 Documentation Center.

Dynamic Data Display

No dynamic data is presented on the login.jsp template.

Form Field Specification

The primary purpose of the <code>login.jsp</code> template is to allow customers to enter their username and password using two HTML form fields. It is also used to pass needed information to the Webflow.

The form fields used in the login. jsp template, and a description for each of these form fields are listed in Table 2-2.

Table 2-2 login.jsp Form Fields

Parameter Name	Туре	Description
"event"	Hidden	Indicates which event has been triggered. It is used by the Webflow to determine what happens next.
"origin"	Hidden	The name of the current page (login.jsp), used by the Webflow.
"namespace"	Hidden	The namespace for the JSP; sampleapp_main in this JSP.
"j_username"	Textbox	The customer's login name, passed to WebLogic Server for authentication.
"j_password"	Password	The customer's login password, passed to WebLogic Server for authentication.

Note: Parameters that are literals in the JSP code are shown in quotes, while non-literals will require scriptlet syntax (such as

<%= HttpRequestConstants.USER_NAME %>) for use in the JSP.

badlogin.jsp Template

The badlogin.jsp template (shown in Figure 2-2) informs a customer that they have entered an invalid username/password combination, and allows the customer to try logging into your e-commerce site again by providing a valid username/password combination. Except for the error message, it behaves exactly as the login.jsp template previously described.

Sample Browser View

Figure 2-2 shows an annotated version of the badlogin. jsp template. The black lines and callout text are not part of the template; they are explanations of the template components.

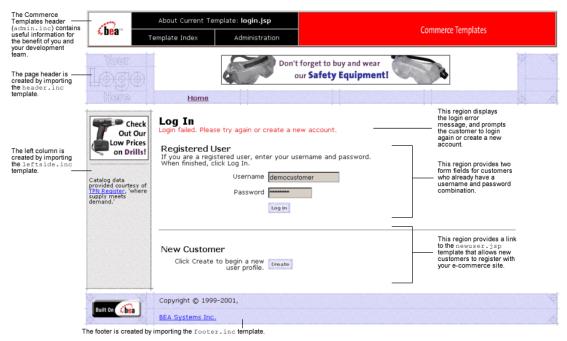


Figure 2-2 Annotated badlogin.jsp Template

Location in the Directory Structure

You can find the badlogin. jsp template file at the following location, where PORTAL_HOME is the directory in which you installed Commerce services:

PORTAL_HOME\applications\wlcsApp\wlcs\commerce\badlogin.jsp (Windows)

 $\label{local_post_post_post_post} $$\operatorname{PORTAL_HOME/applications/wlcsApp/wlcs/commerce/badlogin.jsp}(UNIX)$$

Tag Library Imports

The badlogin.jsp template does not use any custom JSP tags. Therefore, the template does not include imports of any JSP tag libraries.

Java Package Imports

The badlogin.jsp template does not use any Java classes and therefore does not include any package import statements.

Location in Default Webflow

Customers arrive at the badlogin.jsp template when they fail to provide a valid username/password combination on the login.jsp template. If the customer is registered and the customer's second attempt at logging in is successful, the next page is the protected page the customer was attempting to access. If the customer's login is unsuccessful, the badlogin.jsp template is reloaded.

If the customer is not yet registered and clicks on the Create button, the next page loaded allows the customer to create a profile and obtain a username/password combination (newuser.jsp). After the customer has registered, the customer is automatically logged in and forwarded to the newusercreation.jsp template, which allows customers to continue shopping, view their shopping carts, or check out. If the auto-login is unsuccessful, the login.jsp template is loaded for the customer to enter their username and password. If the customer's login attempt is unsuccessful, the badlogin.jsp is loaded.

This template is part of the sampleapp_main namespace in the Webflow.

Note: For more information about the default Webflow, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline.*

Included JSP Templates

The following JSP template is included in the ${\tt badlogin.jsp}$ template:

• login.jsp, which creates the entire page with the exception of the error message at the top.

Events

Because the badlogin.jsp template includes the login.jsp template, the badlogin.jsp template uses the same events. For more information about these events, see "Login.jsp Template" on page 2-3.

Dynamic Data Display

No dynamic data is presented on the badlogin. jsp template.

Form Field Specification

Because the badlogin.jsp template includes the login.jsp template, the badlogin.jsp template uses the same form fields. For more information about these form fields, see "Login.jsp Template" on page 2-3.

newuser.jsp Template

The newuser.jsp template (shown in Figure 2-3 through Figure 2-6) allows a new customer to register with your e-commerce site by creating their customer profile, which includes personal information, shipping address information, payment information (optional), and account information.

Sample Browser View

Figure 2-3 through Figure 2-6 show annotated versions of the newuser.jsp template. The black lines and callout text are explanations of the template components.

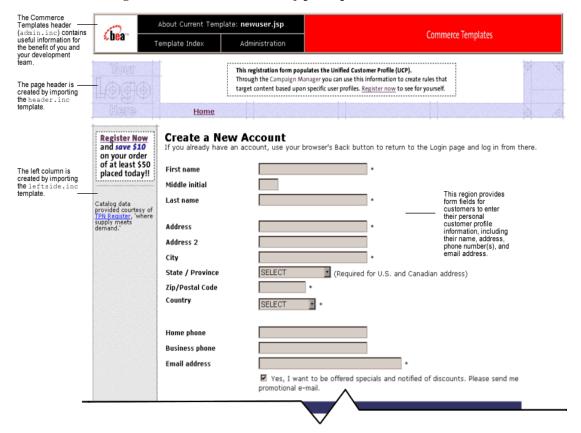
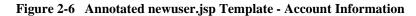


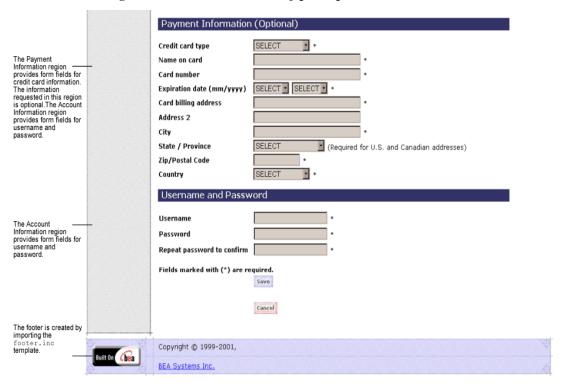
Figure 2-3 Annotated newuser.jsp Template - Personal Information

Demographic Options Female Gender * Male Date of Birth * (mm/dd/yyyy) Clerical © Executive Management Professional Occupation * Engineering Management This Demographic Information region provides radio buttons/form fields for customers to provide demographic information that can interface with the BEA E-Business Control Center, allowing a business analyst to define, regulate, and personalize campaigns for each customer that visits your site. Sales Not employed, not looking for work Self-employed Employment Status * © Employed Not employed, looking for work Widowed Married Marital Status * Single O Divorced O High School College Graduate Education Level * C Graduate Degree O Professional Degree Some College O Under \$35,000 @ \$35,000 to \$49,999 @ \$50,000 to \$74,999 Income Range * @ \$75,000 to \$99,999 **0** \$100,000 to \$124,999 @ \$125,000 and above O Do It Yourselfer All thumbs Handiness * C Saturday Helper O Professional

Figure 2-4 Annotated newser.jsp Template - Demographic Information

Figure 2-5 Annotated newuser.jsp Template - Shipping Address and Payment Information (Optional)





Note: The maximum number of characters allowed for usernames and passwords is set to 50. There are no other restrictions. If you want to impose other restrictions, such as required character types, disallowed character types, or length requirements, you must set up your own Input Processor.

Location in the Directory Structure

You can find the newuser. jsp template file at the following location, where PORTAL_HOME is the directory in which you installed Commerce services:

```
%PORTAL_HOME\applications\wlcsApp\wlcs\commerce\register\
newuser.jsp(Windows)

PORTAL_HOME/applications/wlcsApp/wlcs/
commerce/register/newuser.jsp(UNIX)
```

Tag Library Imports

The newuser.jsp template makes use of the Webflow JSP tags. Therefore, the template includes the following JSP tag library:

```
<%@ taglib uri="weblogic.tld" prefix="webflow" %>
```

Note: For more information about the Webflow JSP tags, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline.*

This file resides in the following directory for the Commerce services Web application:

```
%PORTAL_HOME\applications\wlcsApp\wlcs\WEB-INF (Windows)
PORTAL_HOME/applications/wlcsApp/wlcs/WEB-INF (UNIX)
```

Java Package Imports

The newuser.jsp template uses Java classes in the following packages and therefore includes these import statements:

```
<%@ page import="javax.servlet.*" %>
<%@ page import="javax.servlet.http.*" %>
<%@ page import="com.beasys.commerce.webflow.HttpRequestConstants" %>
<%@ page import="com.beasys.commerce.webflow.tags.WebFlowTagConstants" %>
```

Location in Default Webflow

The page prior to newuser.jsp is the customer login page (login.jsp). If no errors are found after a customer enters their initial profile information, customers are auto-logged in and forwarded to a welcome page where they can select from the various links to continue shopping or check out (newusercreation.jsp). If errors are found, the newuser.jsp is reloaded with an appropriate message next to the invalid form fields.

This template is part of the sampleapp_user namespace in the Webflow.

Note: For more information about the default Webflow, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline.*

Included JSP Templates

The following JSP templates are included in the newuser.jsp template:

- admin.inc, which shows the name of the current template and contains links to its *About* information, the JSP Template Index, and the Administration Tools.
 The admin.inc template should be removed from the production pages before they are moved to your live server.
- header.inc, which creates the page header. It is standard across many of the JSP templates provided by Commerce services. The import call is: <@ include file="/commerce/includes/header.inc" %>
- leftside.inc, which creates the left column and secondary placeholder for advertising. It is standard across many of the JSP templates provided by Commerce services. The import call is:

```
<%@ include file="/commerce/includes/leftside.inc" %>
```

- states.inc, which contains a list of states as part of an address. The state is only required for U.S. citizens. The import call is: <%@ include file="/commerce/includes/states.inc" %>
- countries.inc, which contains a list of countries as part of an address. The import call is:

```
<%@ include file="/commerce/includes/countries.inc" %>
```

- newaddresstemplate.inc, which also uses the states.inc and the countries.inc templates.
- newdemographictemplate.inc, which contains formatting for the demographic data.
- newcctemplate.inc, which also uses the states.inc and the countries.inc templates.
- footer.inc, which creates the page footer. It is standard across many of the JSP templates provided by Commerce services. The import call is: <@ include file="/commerce/includes/footer.inc" %>

About the Included newaddresstemplate.inc Template

The newaddresstemplate.inc template provides a standardized format for both the form field presentation and error handling included in all JSP templates that prompt customers for a shipping address, except addaddress.jsp. The form fields are organized in a table, and upon form submission, the Input Processors associated with the newaddresstemplate.inc template will validate the form to ensure that all required fields contain values. If errors are detected, the newaddresstemplate.inc template will be redisplayed, with an error message at the top and the invalid field labels shown in a red (as opposed to the original black) font. Previously entered correct information will still be displayed in the form.

The behavior described above is accomplished on the newaddresstemplate.inc template using the getValidatedValue JSP tag, as shown in Listing 2-1.

Listing 2-1 Use of the getValidatedValue JSP Tag on newaddresstemplate.inc

Notes: For more information about the getValidatedValue JSP tag, see the *Guide* to Managing Presentation and Business Logic: Using Webflow and Pipeline.

About the Included newcctemplate.inc Template

The newcctemplate.inc template provides a standardized format for both the form presentation and error handling in all JSP templates that prompt customers for credit card/payment information. The form fields are organized in a table, and upon form submission, the Input Processors associated with the newcctemplate.inc template will validate the form to ensure that all required fields contain values. If errors are detected, the newcctemplate.inc template will be redisplayed, with an error message at the top and the invalid field labels shown in a red (as opposed to the original black) font. Previously entered correct information will still be displayed in the form.

The behavior described above is accomplished on the newcctemplate.inc template using the getValidatedValue JSP tag, as shown in Listing 2-2.

Listing 2-2 Use of the getValidatedValue JSP Tag on newcctemplate.inc

Notes: For more information about the getValidatedValue JSP tag, see the *Guide* to Managing Presentation and Business Logic: Using Webflow and Pipeline.

About the Included newdemographic template.inc Template

The newdemographictemplate.inc template provides a standardized format for both the form presentation and error handling in all JSP templates that prompt customers for demographic information. The radio buttons are organized in a table, and upon form submission, the Input Processors associated with the newdemographictemplate.inc template will validate the form to ensure that all required fields contain values. If errors are detected, the newdemographictemplate.inc template will be redisplayed, with an error message at the top of the including page and the invalid field labels shown in a red (as opposed to the original black) font. Previously entered correct information will still be displayed in the form.

The behavior described above is accomplished on the newdemographic template.inc template using the getValidatedValue JSP tag, as shown in Listing 2-3.

Listing 2-3 Use of the getValidatedValue JSP Tag on newdemographictemplate.inc

```
<%// get the property values for Gender
  propertyBean.setPropertyName(GENDER);
  property = propertyBean.getPropertyObject();
  if(property == null || property.getRestrictedValues() == null)
  arr = new Object[0];
  else arr = property.getRestrictedValues().toArray();%>
<ps:getRestrictedPropertyValues propertySetName="Demographics"</p>
propertySetType="USER" propertyName="<%= GENDER %>" id="arr" result="foobar" />
cellspacing="0"><es:forEachInArray id="valueObject" array="<%= arr %>"
type="String">
<input type="radio" name="
  <%= HttpRequestConstants.CUSTOMER_GENDER %>" value="<%= valueObject %>"
  <% if ( valueObject.equals(genderValue) ) { %>CHECKED<% } %>>
  <\td><\text{*= valueObject }\times</td>
 </es:forEachInArray>
```

Note: For more information about the getValidatedValue JSP tag, see the *Guide* to Managing Presentation and Business Logic: Using Webflow and Pipeline.

Events

The newuser.jsp template presents a customer with two buttons, each of which is considered an event. These events trigger a particular response in the default Webflow that allows customers to continue. While this response can be to load another JSP, it is usually the case that an Input Processor or Pipeline Component is invoked first. Table 2-3 provides information about these events and the business logic they invoke.

Table 2-3 newuser.jsp Events

Event	Webflow Response(s)
button.cancel	GetCategoryIP
	GetTopCategories Pipeline

Table 2-3 newuser.jsp Events

Event	Webflow Response(s)
button.save	CustomerProfileIP CustomerProfile Pipeline

Table 2-4 briefly describes each of the Pipelines from Table 2-3. For more information about individual Pipeline Components, see "Pipeline Components" on page 2-39.

Table 2-4 newuser.jsp Associated Pipelines

Pipeline	Description
CustomerProfile	Contains EncryptedCreditCardPC and RegisterUserPC, and is transactional.

Dynamic Data Display

No dynamic data is presented on the newser.jsp template.

Form Field Specification

The primary purpose of the newuser. jsp template is to allow customers to enter their profile information using various HTML form fields. It is also used to pass needed information to the Webflow.

The form fields used in the newuser.jsp template, most of which are imported from other templates, and a description for each of these form fields are listed in Table 2-5.

Note: If a form field is imported from another template, it is indicated in the description. Form fields without import information are in the newuser.jsp template.

Table 2-5 newuser.jsp Form Fields

Parameter Name	Туре	Description
"event"	Hidden	Indicates which event has been triggered. It is used by the Webflow to determine what happens next.
"origin"	Hidden	The name of the current page (newuser.jsp), used by the Webflow.
"namespace"	Hidden	The namespace for the JSP; sampleapp_user in this JSP.
HttpRequestConstants. CUSTOMER_FIRST_NAME	Textbox	The customer's first name.
HttpRequestConstants. CUSTOMER_MIDDLE_NAME	Textbox	The customer's middle initial.
HttpRequestConstants. CUSTOMER_LAST_NAME	Textbox	The customer's last name.
HttpRequestConstants. CUSTOMER_ADDRESS1	Textbox	The first line in the customer's street address.
HttpRequestConstants. CUSTOMER_ADDRESS2	Textbox	The second line in the customer's street address.
HttpRequestConstants. CUSTOMER_CITY	Textbox	The city in the customer's address.
HttpRequestConstants. CUSTOMER_STATE	Listbox	The state in the customer's address. Imported from states.inc.
HttpRequestConstants. CUSTOMER_ZIPCODE	Textbox	The zip code in the customer's address.
HttpRequestConstants. CUSTOMER_COUNTRY	Listbox	The country in the customer's address. Imported from countries.inc.
HttpRequestConstants. CUSTOMER_HOME_PHONE	Textbox	The customer's home phone number.
HttpRequestConstants. CUSTOMER_BUSINESS_PHONE	Textbox	The customer's business phone number.

Table 2-5 newuser.jsp Form Fields (Continued)

Parameter Name	Type	Description
HttpRequestConstants. CUSTOMER_EMAIL	Textbox	The customer's e-mail address.
HttpRequestConstants. CUSTOMER_EMAIL_OPT_IN	Checkbox	Indicates that the customer wants to receive promotional items via e-mail.
HttpRequestConstants. SAME_AS_ABOVE	Checkbox	Indicates that the customer's shipping address is the same as the contact address. Imported from newaddresstemplate.inc.
HttpRequestConstants. CUSTOMER_SHIPPING_ADDRESS1	Textbox	The first line in the customer's shipping address. Imported from newaddresstemplate.inc.
HttpRequestConstants. CUSTOMER_SHIPPING_ADDRESS2	Textbox	The second line in the customer's shipping address. Imported from newaddresstemplate.inc.
HttpRequestConstants. CUSTOMER_SHIPPING_CITY	Textbox	The city in the customer's shipping address. Imported from newaddresstemplate.inc.
HttpRequestConstants. CUSTOMER_SHIPPING_STATE	Listbox	The state in the customer's shipping address. Imported from newaddresstemplate.inc.
HttpRequestConstants. CUSTOMER_SHIPPING_ZIPCODE	Textbox	The zip/postal code in the customer's shipping address. Imported from newaddresstemplate.inc.
HttpRequestConstants. CUSTOMER_SHIPPING_COUNTRY	Listbox	The country in the customer's shipping address. Imported from newaddresstemplate.inc.
HttpRequestConstants. CUSTOMER_GENDER	Radio buttons	Identifies the customer as male or female. Imported from newdemographictemplate.inc.
HttpRequestConstants. CUSTOMER_DATE_OF_BIRTH	Textboxes	The customer's date of birth. Imported from newdemographictemplate.inc.
HttpRequestConstants. CUSTOMER_OCCUPATION	Radio buttons	The customer's job description. Imported from newdemographictemplate.inc.

Table 2-5 newuser.jsp Form Fields (Continued)

Parameter Name	Type	Description
HttpRequestConstants. CUSTOMER_EMPLOYMENT_STATUS	Radio buttons	Identifies if the customer has a job at the time of registration. Imported from newdemographictemplate.inc.
HttpRequestConstants. CUSTOMER_MARITAL_STATUS	Radio buttons	Identifies the customer's marital status. Imported from newdemographictemplate.inc.
HttpRequestConstants. CUSTOMER_EDUCATION_LEVEL	Radio buttons	Identifies how much formal education the customer has completed. Imported from newdemographictemplate.inc.
HttpRequestConstants. CUSTOMER_INCOME_RANGE	Radio buttons	Identifies the customer's yearly income. Imported from newdemographictemplate.inc.
HttpRequestConstants. CUSTOMER_QUALITY	Radio buttons	Ranks customer from beginner to expert in using your product. Imported from newdemographictemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_TYPE	Listbox	The type of the customer's credit card. Imported from newcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_HOLDER	Textbox	The name on the credit card. Imported from newcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_NUMBER	Textbox	The number of the customer's credit card. Imported from newcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_MONTH	Listbox	The month of the customer's credit card expiration date. Imported from newcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_YEAR	Listbox	The year of the customer's credit card expiration date. Imported from newcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_ADDRESS1	Textbox	The first line in the customer's billing address. Imported from newcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_ ADDRESS2	Textbox	The second line in the customer's billing address. Imported from newcctemplate.inc.

Table 2-5 newuser.jsp Form Fields (Continued)

Parameter Name	Type	Description
HttpRequestConstants. CUSTOMER_CREDITCARD_CITY	Textbox	The city in the customer's billing address. Imported from newcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_STATE	Listbox	The state in the customer's billing address. Imported from newcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_ZIPCODE	Textbox	The zip/postal code in the customer's billing address. Imported from newcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_COUNTRY	Listbox	The country in the customer's billing address. Imported from newcctemplate.inc.
HttpRequestConstants.USER_NAME	Textbox	An identity chosen by the customer for login.
HttpRequestConstants.PASSWORD	Password	A password chosen by the customer for login.
HttpRequestConstants. CONFIRM_PASSWORD	Password	Confirmation of the password chosen by the customer for login.

Note: Parameters that are literals in the JSP code are shown in quotes, while non-literals will require scriptlet syntax (such as <%= HttpRequestConstants.USER_NAME %>) for use in the JSP.

newusercreation.jsp Template

The footer is created by importing the footer.inc template.

The newusercreation.jsp template (shown in Figure 2-7) informs a customer who has just created a new user profile that they have been logged in and that registration was successful. It also provides the customer with the opportunity to return to their shopping experience through several navigation options.

Sample Browser View

Figure 2-7 shows an annotated version of the newusercreation. jsp template. The black lines and callout text are not part of the template; they are explanations of the template components.

The Commerce
Templates header
(admin.inc) contains
useful information for
the benefit of you and About Current Template: newusercreation.jsp **Commerce Templates &bea** your development team. You are now in a campaign that uses both your classification as a new user and your gender to target a specific message to you (notice the ad below). Store data indicates The page header is -created by importing the header.inc template. that women buy 75% of all Saws and Men buy 63% of all Drills. Click the ad below. <u>Home</u> Welcome Demo Customer2 Congratulations Demo220, you have successfully registered and logged in. The main body of the View Profile page indicates to the customer that registration and auto-login was successful. It also Please select one of the following actions: The left column is created by importing View shopping cart Check out Continue shopping View History provides the customer with links to their Payments with links to their shopping cart (shopping cart.jsp), to continue shopping, to the checkout process (shipping.jsp), or to the main.jsp via the home link in the header.inc. Now that the user has a profile Buy a and is logged in, the leftside. inc shows links to the customer's order Saw Today & history (orderhistory.jsp), Redeem (orderhistory.jsp), payment history (paymenthistory.jsp), to their profile Your \$10! (viewprofile.jsp), or to logout. Catalog data provided courtesy of Copyright @ 1999-2001, BEA Systems Inc.

Figure 2-7 Annotated newssercreation.jsp Template

Notes: For a detailed description of the main.jsp template, see "Product Catalog JSP Templates" in the *Guide to Building a Product Catalog* book. For a detailed description of the shoppingcart.jsp and shipping.jsp templates, see "Shopping Cart Management Services" or "Shipping Services" in the *Guide to Managing Purchases and Processing Orders* book.

The option to proceed to checkout is only provided on the newsercreation.jsp template if there are items in the customer's shopping cart. Otherwise, the newsercreation.jsp template will leave out this option as shown in Figure 2-8.

About Current Template: newusercreation.jsp Commerce Templates &bea* Template Index Administration You are now in a campaign that uses both your classification as a new user and your gender to target a specific message to you (notice the ad below). Store data indicates that women buy 75% of all Saws and Men buy 63% of all Drills. Click the ad below. <u>Home</u> Welcome Demo Customer Congratulations e Demo451, you have successfully registered and logged in. View Profile Please select one of the following actions: Note that the check out View shopping cart Continue shopping **View History** link is not available Orders Payments Buy a Drill Today & Redeem Your \$10! Copyright @ 1999-2001,

Figure 2-8 newusercreation.jsp - Without Checkout Option

Location in the Directory Structure

BEA Systems Inc.

You can find the newusercreation. jsp template file at the following location, where PORTAL_HOME is the directory in which you installed WebLogic Portal:

```
%PORTAL_HOME\applications\wlcsApp\wlcs\commerce\user\
newusercreation.jsp (Windows)

PORTAL_HOME/applications/wlcsApp/wlcs/commerce/user/
newusercreation.jsp (UNIX)
```

Tag Library Imports

The newsercreation. jsp template uses Pipeline Processor JSP tags. Therefore, the template includes the following JSP tag library:

```
<%@ taglib uri="webflow.tld" prefix="webflow" %>
```

Note: For more information about the Pipeline Processor JSP tags, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline.*

This file resides in the following directory for the Commerce services Web application:

```
%PORTAL_HOME\applications\wlcsApp\wlcs\WEB-INF (Windows)

PORTAL_HOME/applications/wlcsApp/wlcs/WEB-INF (UNIX)
```

Java Package Imports

The newusercreation. jsp template uses Java classes in the following packages and therefore includes these import statements:

```
<%@ page import="javax.servlet.*" %>
<%@ page import="javax.servlet.http.*" %>
<%@ page import="com.beasys.commerce.ebusiness.shoppingcart.*" %>
<%@ page import="com.beasys.commerce.webflow.PipelineSessionConstants" %>
```

Location in Default Webflow

Customers arrive at the newusercreation.jsp template when they have successfully created a new user profile and the auto-login using JAAS (Java Authentication and Authorization Service) has completed. If the customer creates a new profile, but the auto-login does not complete successfully, the customer is routed to the login.jsp template and will not see the newusercreation.jsp template. After manual login, the customer is routed to the main.jsp template.

Note: If a customer had created a profile on a previous visit and logged in using the login.jsp template, the customer would simply be taken to the protected page the customer was trying to access.

From the newsercreation.jsp template, the customer can return to their shopping cart (shoppingcart.jsp), continue shopping, continue to the checkout process (shipping.jsp), view their order history (orderhistory.jsp), view their profile (viewprofile.jsp), view their payment history (paymenthistory.jsp), logout, or return to the main catalog page (main.jsp).

Note: The option to proceed to checkout is only provided on the newusercreation. jsp template if there are items in the customer's shopping cart.

For more information about the default Webflow, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline*.

This template is part of the sampleapp_user namespace in the Webflow.

Included JSP Templates

The following JSP templates are included in the newusercreation.jsp template:

- admin.inc, which shows the name of the current template and contains links to its *About* information, the JSP Template Index, and the Administration Tools. The admin.inc template should be removed from the production pages before they are moved to your live server.
- header.inc, which creates the page header. It is standard across many of the JSP templates provided by Commerce services. The import call is:

 /**@ include file="/commerce/includes/header.inc" *>
- leftside.inc, which creates the left column and secondary placeholder for advertising. It is standard across many of the JSP templates provided by Commerce services. The import call is:
 - <%@ include file="/commerce/includes/leftside.inc" %>

Events

Every time a customer clicks a button to view more detail about an order, it is considered an event. Each event triggers a particular response in the default Webflow that allows them to continue. While this response can be to load another JSP, it is usually the case that an Input Processor and/or Pipeline is invoked first. Table 2-6 provides information about these events and the business logic they invoke.

Table 2-6 newusercreation.jsp Events

Event	Webflow Response(s)
link.shoppingcart	InitShoppingCartIP
button.checkout	InitShippingMethodListIP
link.home	GetTopCategoriesIP GetTopCategories Pipeline

Note: For more information about the GetTopCategoriesIP and GetTopCategories Pipeline, see the *Guide to Building a Product Catalog*.

Dynamic Data Display

One purpose of the newusercreation.jsp template is to display navigation options that allow customers to continue their shopping experience after logging in. However, if there are no items in the customer's shopping cart, then checkout is not an option that should be displayed. The decision of whether or not to display this option is accomplished on newusercreation.jsp using a combination of Pipeline Processor JSP tags and accessor methods/attributes.

First, the getProperty JSP tag retrieves the Shopping_CART attribute from the Pipeline Processor session. Table 2-7 provides more detailed information on this attribute.

Table 2-7 newusercreation.jsp Pipeline Processor Session Properties

Attribute	Type	Description
PipelineSessionConstant. SHOPPING_CART	com.beasys.commerce.ebusines. shoppingcart.ShoppingCart	The currently active shopping cart.

Listing 2-4 illustrates how this attribute is retrieved from the Pipeline Processor session using the getProperty JSP tag.

Listing 2-4 Retrieving the Shopping Cart Attribute

```
<webflow:getProperty id="shoppingCart"
property="<%=PipelineSessionConstants.SHOPPING_CART%>"
type="com.beasys.commerce.ebusiness.shoppingcart.ShoppingCart"
scope="session" namespace="sampleapp_main" />
```

Note: For more information on the getProperty JSP tag, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline.*

The data stored within the Pipeline session attribute is then accessed by using accessor methods/attributes within Java scriptlets. Table 2-8 provides more detailed information about these methods/attributes for shoppingCart.

Table 2-8 shoppingCart Accessor Methods/Attributes

Method/Attribute	Description
isEmpty()	Returns true if the customer's shopping cart is empty.

The presence of items in the shopping cart is evaluated using this method in a Java scriptlet, as shown in Listing 2-5.

Listing 2-5 Accessor Methods/Attributes in newsercreation.jsp Java Scriptlets

```
<% if (shoppingCart != null && shoppingCart.isEmpty() == false) { %>
<a href="<webflow:createWebflowURL event="button.checkout"
namespace="sampleapp_order" />"><img src="<webflow:createResourceURL
resource="/commerce/images/btn_checkout_no.gif" />" border="0" vspace="2"
hspace="3"></a> &nbsp; &nbsp;
<% } %>
```

Form Field Specification

No form fields are used in the newsercreation.jsp template.

newuserforward.jsp Template

The newuserforward.jsp template is used to direct unregistered users to the newuser.jsp because dynamic URIs are not supported in placeholders. This page is accessed when an unregistered user clicks an ad placeholder that contains a static URI. The newuserforward.jsp template then forwards the user to newuser.jsp. Additionally, the newuserforward.jsp bridges the transition from a non-secure to a secure connection (http to https).

Because this page is never seen by the end user and uses no includes, instead of a figure, the code for this page is shown in Listing 2-6.

Location in the Directory Structure

You can find the newuser. jsp template file at the following location, where PORTAL_HOME is the directory in which you installed Commerce services:

```
\label{lower} $$\operatorname{PORTAL\_HOME}\applications\wlcsApp\wlcs}$$ commerce\newserforward.jsp\end{Windows}
```

PORTAL_HOME/applications/wlcsApp/wlcs/commerce/newuserforward.jsp(UNIX)

Tag Library Imports

The newuserforward. jsp template does not use any tag libraries.

Java Package Imports

The newuserforward.jsp template does not use any imports.

Location in Default Webflow

The page prior to newuserforward.jsp can be any page that an anonymous user can access. However, this template is only needed if an unregistered user clicks the ad placeholder that prompts them to register. The static URI in the placeholder accesses the newuserforward.jsp which then forwards the user to the newuser.jsp template.

This template is part of the sampleapp_main namespace in the Webflow.

Note: For more information about the default Webflow, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline.*

Included JSP Templates

No JSP templates are included in the newserforward. jsp template.

Events

The newserforward. jsp template has one event. This event triggers a particular response in the default Webflow that allows customers to continue. While this response can be to load another JSP, it is usually the case that an Input Processor or Pipeline is invoked first. Table 2-9 provides information about this event and the business logic it invokes.

Table 2-9 newuserforward.jsp Events

Event	Webflow Response(s)
button.createUser	newuser.jsp

Listing 2-6 newuserforward.jsp Code

```
<% String s =
com.bea.pl3n.appflow.webflow.WebflowJSPHelper.createWebflowURL(pageContext,
"sampleapp_main", "login.jsp", "button.createUser", true); %>
<% response.sendRedirect(s); %>
```

Dynamic Data Display

No dynamic data is presented on the newserforward. jsp template.

Form Field Specification

No form fields are used in the newserforward.jsp template.

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usercreationforward.jsp Template

The usercreationforward.jsp template is used to forward new users to the newusercreation.jsp template after the registration and auto-login process using JAAS is completed by the Webflow. Once the user is created, the request must be flushed and the usercreationforward.jsp template allows that to happen.

Because this page is never seen by the end user and uses no includes, instead of a figure, the code for this page is shown in Listing 2-7.

Location in the Directory Structure

You can find the newuser. jsp template file at the following location, where PORTAL_HOME is the directory in which you installed Commerce services:

```
PORTAL_HOME\applications\wlcsApp\wlcs\
commerce\user\usercreationforward.jsp(Windows)

PORTAL_HOME/applications/wlcsApp/wlcs/
commerce/user/usercreationforward.jsp(UNIX)
```

Tag Library Imports

The usercreationforward.jsp template does not use any tag libraries.

Java Package Imports

The usercreationforward.jsp template uses Java classes in the following package and therefore includes the import statement:

```
<%@ page import="com.bea.p13n.appflow.webflow.WebflowJSPHelper*" %>
```

Location in Default Webflow

The page prior to usercreationforward.jsp is the newuser.jsp template. When new users save their profiles, they are auto-logged in using JAAS and if the login is successful, because the old request must be flushed, the usercreationforward.jsp is needed to redirect the user to the newusercreation.jsp template.

This template is part of the sampleapp_user namespace in the Webflow.

Note: For more information about the default Webflow, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline.*

Included JSP Templates

No JSP templates are included in the usercreationforward. jsp template.

Events

The usercreationforward.jsp template has one event. This event triggers a particular response in the default Webflow that allows customers to continue. While this response can be to load another JSP, it is usually the case that an Input Processor or Pipeline is invoked first. Table 2-10 provides information about this event and the business logic it invokes.

Table 2-10 usercreationforward.jsp Events

Event	Webflow Response(s)
forward.usercreation	newusercreation.jsp

Listing 2-7 usercreationforward.jsp Code

```
<% String s = WebflowJSPHelper.createWebflowURL(pageContext, "sampleapp_user",
"usercreationforward.jsp", "forward.usercreation", true); %>
<% response.sendRedirect(s); %>
```

Dynamic Data Display

No dynamic data is presented on the ${\tt newuserforward.jsp}$ template.

Form Field Specification

No form fields are used in the usercreationforward.jsp template.

Input Processors

This section provides a brief description of each Input Processor associated with the Customer Login and Registration Services JSP template(s).

Note: For more information about the GetTopCategoriesIP Input Processor, see the *Guide to Building a Product Catalog*.

CustomerProfileIP

Class Name	examples.wlcs.sampleapp.customer.webflow.CustomerProfileIP
Description	Processes the input of newuser.jsp and allows the customer to store their profile. Creates and places a CustomerValue object into the Pipeline Processor session.
Required	HttpRequestConstants.CUSTOMER_FIRST_NAME
HTTPServletRequest	<pre>HttpRequestConstants.CUSTOMER_MIDDLE_NAME</pre>
Parameters	HttpRequestConstants.CUSTOMER_LAST_NAME
(Personal Information)	HttpRequestConstants.CUSTOMER_ADDRESS1
	HttpRequestConstants.CUSTOMER_ADDRESS2
	HttpRequestConstants.CUSTOMER_CITY
	HttpRequestConstants.CUSTOMER_STATE
	HttpRequestConstants.CUSTOMER_ZIPCODE
	HttpRequestConstants.CUSTOMER_COUNTRY
	HttpRequestConstants.CUSTOMER_HOME_PHONE
	HttpRequestConstants.CUSTOMER_BUSINESS_PHONE
	HttpRequestConstants.CUSTOMER_EMAIL
	HttpRequestConstants.CUSTOMER_EMAIL_OPT_IN
	(code location: newuser.jsp template.)

HttpRequestConstants.CUSTOMER_EDUCATION_LEVEL HttpRequestConstants.CUSTOMER_DATE_OF_BIRTH HttpRequestConstants.CUSTOMER_DATE_OF_BIRTH HttpRequestConstants.CUSTOMER_GENDER HttpRequestConstants.CUSTOMER_MARITAL_STATUS HttpRequestConstants.CUSTOMER_MARITAL_STATUS HttpRequestConstants.CUSTOMER_EMPLOYMENT_STATUS HttpRequestConstants.CUSTOMER_EMPLOYMENT_STATUS HttpRequestConstants.CUSTOMER_EMPLOYMENT_STATUS HttpRequestConstants.CUSTOMER_EMPLOYMENT_STATUS HttpRequestConstants.CUSTOMER_EMPLOYMENT_STATUS HttpRequestConstants.CUSTOMER_DATE (code location: newdemographictemplate.inc template.) HttpRequestConstants.SAME_AS_ABOVE HttpRequestConstants.CUSTOMER_SHIPPING_ADDRESS1 HttpRequestConstants.CUSTOMER_SHIPPING_ADDRESS2 HttpRequestConstants.CUSTOMER_SHIPPING_CITY HttpRequestConstants.CUSTOMER_SHIPPING_ZIPCODE HttpRequestConstants.CUSTOMER_SHIPPING_COUNTRY HttpRequestConstants.DEFAULT_SHIPPING_ADDRESS (code location: newaddresstemplate.inc template.) HTTPServletRequest HttpRequestConstants.CUSTOMER_CREDITCARD_TYPE Parameters (Payment Information) HttpRequestConstants.CUSTOMER_CREDITCARD_NUMBER HttpRequestConstants.CUSTOMER_CREDITCARD_NUMBER HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS1 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS2 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS1 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS2 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS2 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS2 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS2 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS2 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS2 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS2 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS2 HttpRequestConstants.CUSTOMER_CREDITCARD_COUNTRY (code location: newcetemplate.inc template.) Required HttpRequestConstants.DSER_NAME HttpRequestConstants.DSER_NAME HttpRequestConstants.PASSWORD		
Parameters	Required	<pre>HttpRequestConstants.CUSTOMER_INCOME_RANGE</pre>
(Demographic Information) HttpRequestConstants.CUSTOMER_GENDER HttpRequestConstants.CUSTOMER_OCCUPATION HttpRequestConstants.CUSTOMER_EMPLOYNENT_STATUS HttpRequestConstants.CUSTOMER_EMPLOYNENT_STATUS HttpRequestConstants.CUSTOMER_EMPLOYNENT_STATUS HttpRequestConstants.CUSTOMER_QUALITY (code location: newdemographic template.inc template.) Required HttpRequestConstants.SAME_AS_ABOVE (code location: newser.jsp template.) HttpRequestConstants.CUSTOMER_SHIPPING_ADDRESS1 HttpRequestConstants.CUSTOMER_SHIPPING_ADDRESS2 HttpRequestConstants.CUSTOMER_SHIPPING_ZIPCODE HttpRequestConstants.CUSTOMER_SHIPPING_ZIPCODE HttpRequestConstants.CUSTOMER_SHIPPING_ZIPCODE HttpRequestConstants.DEFAULT_SHIPPING_ADDRESS (code location: newaddresstemplate.inc template.) HTTPServletRequest HttpRequestConstants.CUSTOMER_CREDITCARD_HOLDER HttpRequestConstants.CUSTOMER_CREDITCARD_HOLDER HttpRequestConstants.CUSTOMER_CREDITCARD_MONTH HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS1 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS2 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS3 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS3 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS3 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS3 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS3 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS3 HttpRequestConstants.CUSTOMER_CREDITCARD_TIPCODE HttpRequestConstants.CUSTOMER_CREDITCARD_TIPCODE HttpRequestConstants.CUSTOMER_CREDITCARD_TIPCODE HttpRequestConstants.CUSTOMER_CREDITCARD_TIPCODE HttpRequestConstants.CUSTOMER_CREDITCARD_COUNTRY (code location: newcotemplate.inc template.) Required HttpRequestConstants.PASSWORD HttpRequestConstants.PASSWORD	HTTPServletRequest	<pre>HttpRequestConstants.CUSTOMER_EDUCATION_LEVEL</pre>
HttpRequestConstants.CUSTOMER_CRUPATION HttpRequestConstants.CUSTOMER_EMPLOYMENT_STATUS HttpRequestConstants.CUSTOMER_EMPLOYMENT_STATUS HttpRequestConstants.CUSTOMER_QUALITY (code location: newdemographictemplate.inc template.) Required HttpRequestConstants.SAME_AS_ABOVE (code location: newser.jsp template.) HttpRequestConstants.CUSTOMER_SHIPPING_ADDRESS1 HttpRequestConstants.CUSTOMER_SHIPPING_ADDRESS1 HttpRequestConstants.CUSTOMER_SHIPPING_EITY HttpRequestConstants.CUSTOMER_SHIPPING_ZIPCODE HttpRequestConstants.CUSTOMER_SHIPPING_ZIPCODE HttpRequestConstants.CUSTOMER_SHIPPING_ZIPCODE HttpRequestConstants.DEFAULT_SHIPPING_ADDRESS (code location: newaddresstemplate.inc template.) HTTPServletRequest HttpRequestConstants.CUSTOMER_CREDITCARD_TYPE HttpRequestConstants.CUSTOMER_CREDITCARD_MONTH HttpRequestConstants.CUSTOMER_CREDITCARD_MONTH HttpRequestConstants.CUSTOMER_CREDITCARD_MONTH HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS1 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS2 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS1 HttpRequestConstants.CUSTOMER_CREDITCARD_CITY HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS2 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS2 HttpRequestConstants.CUSTOMER_CREDITCARD_CITY HttpRequestConstants.CUSTOMER_CREDITCARD_CITY HttpRequestConstants.CUSTOMER_CREDITCARD_CITY HttpRequestConstants.CUSTOMER_CREDITCARD_CITY HttpRequestConstants.CUSTOMER_CREDITCARD_COUNTRY (code location: newcctemplate.inc template.) Required HttpRequestConstants.USTOMER_CREDITCARD_COUNTRY (code location: newcctemplate.inc template.) HttpRequestConstants.CUSTOMER_CREDITCARD_COUNTRY (code location: newcctemplate.inc template.)	Parameters	<pre>HttpRequestConstants.CUSTOMER_DATE_OF_BIRTH</pre>
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(code location: newdemographic template.inc template.) Required HttpRequestConstants.SAME_AS_ABOVE (code location: newuser.jsp template.) HttpRequestConstants.CUSTOMER_SHIPPING_ADDRESS1 HttpRequestConstants.CUSTOMER_SHIPPING_ADDRESS2 HttpRequestConstants.CUSTOMER_SHIPPING_ADDRESS2 HttpRequestConstants.CUSTOMER_SHIPPING_STATE HttpRequestConstants.CUSTOMER_SHIPPING_STATE HttpRequestConstants.CUSTOMER_SHIPPING_CITY HttpRequestConstants.CUSTOMER_SHIPPING_COUNTRY HttpRequestConstants.DEFAULT_SHIPPING_COUNTRY HttpRequestConstants.DEFAULT_SHIPPING_ADDRESS (code location: newaddresstemplate.inc template.) HTTPServletRequest HttpRequestConstants.CUSTOMER_CREDITCARD_TYPE HttpRequestConstants.CUSTOMER_CREDITCARD_HOLDER HttpRequestConstants.CUSTOMER_CREDITCARD_MONTH HttpRequestConstants.CUSTOMER_CREDITCARD_MONTH HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS1 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS2 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS2 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS2 HttpRequestConstants.CUSTOMER_CREDITCARD_STATE HttpRequestConstants.CUSTOMER_CREDITCARD_STATE HttpRequestConstants.CUSTOMER_CREDITCARD_COUNTRY (code location: newcctemplate.inc template.) Required HttpRequestConstants.USER_NAME HTTPServletRequest HttpRequestConstants.PASSWORD		HttpRequestConstants.CUSTOMER_QUALITY
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HttpRequestConstants.CUSTOMER_SHIPPING_STATE HttpRequestConstants.CUSTOMER_SHIPPING_ZIPCODE HttpRequestConstants.CUSTOMER_SHIPPING_COUNTRY HttpRequestConstants.DEFAULT_SHIPPING_ADDRESS (code location: newaddresstemplate.inc template.) HTTPServletRequest Parameters (Payment Information) HttpRequestConstants.CUSTOMER_CREDITCARD_HOLDER HttpRequestConstants.CUSTOMER_CREDITCARD_NUMBER HttpRequestConstants.CUSTOMER_CREDITCARD_NUMBER HttpRequestConstants.CUSTOMER_CREDITCARD_MONTH HttpRequestConstants.CUSTOMER_CREDITCARD_YEAR HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS1 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS2 HttpRequestConstants.CUSTOMER_CREDITCARD_CITY HttpRequestConstants.CUSTOMER_CREDITCARD_STATE HttpRequestConstants.CUSTOMER_CREDITCARD_ZIPCODE HttpRequestConstants.CUSTOMER_CREDITCARD_COUNTRY (code location: newcctemplate.inc template.) Required HttpRequestConstants.USER_NAME HTTPServletRequest HttpRequestConstants.PASSWORD HttpRequestConstants.CONFIRM_PASSWORD	(~ FF9	<pre>HttpRequestConstants.CUSTOMER_SHIPPING_ADDRESS2</pre>
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HttpRequestConstants.DEFAULT_SHIPPING_ADDRESS (code location: newaddresstemplate.inc template.) HTTPServletRequest Parameters (Payment Information) HttpRequestConstants.CUSTOMER_CREDITCARD_HOLDER HttpRequestConstants.CUSTOMER_CREDITCARD_NUMBER HttpRequestConstants.CUSTOMER_CREDITCARD_MONTH HttpRequestConstants.CUSTOMER_CREDITCARD_YEAR HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS1 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS1 HttpRequestConstants.CUSTOMER_CREDITCARD_CITY HttpRequestConstants.CUSTOMER_CREDITCARD_CITY HttpRequestConstants.CUSTOMER_CREDITCARD_STATE HttpRequestConstants.CUSTOMER_CREDITCARD_ZIPCODE HttpRequestConstants.CUSTOMER_CREDITCARD_COUNTRY (code location: newcctemplate.inc template.) Required HttpRequestConstants.USER_NAME HttpRequestConstants.PASSWORD Parameters HttpRequestConstants.CONFIRM_PASSWORD		HttpRequestConstants.CUSTOMER_SHIPPING_ZIPCODE
(code location: newaddresstemplate.inc template.) HTTPServletRequest Parameters (Payment Information) HttpRequestConstants.CUSTOMER_CREDITCARD_HOLDER HttpRequestConstants.CUSTOMER_CREDITCARD_NUMBER HttpRequestConstants.CUSTOMER_CREDITCARD_MONTH HttpRequestConstants.CUSTOMER_CREDITCARD_MONTH HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS1 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS1 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS2 HttpRequestConstants.CUSTOMER_CREDITCARD_CITY HttpRequestConstants.CUSTOMER_CREDITCARD_STATE HttpRequestConstants.CUSTOMER_CREDITCARD_ZIPCODE HttpRequestConstants.CUSTOMER_CREDITCARD_COUNTRY (code location: newcctemplate.inc template.) Required HttpRequestConstants.USER_NAME HTTPServletRequest HttpRequestConstants.PASSWORD HttpRequestConstants.CONFIRM_PASSWORD		HttpRequestConstants.CUSTOMER_SHIPPING_COUNTRY
HTTPServletRequest Parameters (Payment Information) HttpRequestConstants.CUSTOMER_CREDITCARD_HOLDER HttpRequestConstants.CUSTOMER_CREDITCARD_NUMBER HttpRequestConstants.CUSTOMER_CREDITCARD_MONTH HttpRequestConstants.CUSTOMER_CREDITCARD_MONTH HttpRequestConstants.CUSTOMER_CREDITCARD_YEAR HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS1 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS2 HttpRequestConstants.CUSTOMER_CREDITCARD_CITY HttpRequestConstants.CUSTOMER_CREDITCARD_STATE HttpRequestConstants.CUSTOMER_CREDITCARD_ZIPCODE HttpRequestConstants.CUSTOMER_CREDITCARD_COUNTRY (code location: newcctemplate.inc template.) Required HttpRequestConstants.USER_NAME HTTPServletRequest HttpRequestConstants.PASSWORD HttpRequestConstants.CONFIRM_PASSWORD		HttpRequestConstants.DEFAULT_SHIPPING_ADDRESS
Parameters (Payment Information) HttpRequestConstants.CUSTOMER_CREDITCARD_HOLDER HttpRequestConstants.CUSTOMER_CREDITCARD_NUMBER HttpRequestConstants.CUSTOMER_CREDITCARD_MONTH HttpRequestConstants.CUSTOMER_CREDITCARD_YEAR HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS1 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS2 HttpRequestConstants.CUSTOMER_CREDITCARD_CITY HttpRequestConstants.CUSTOMER_CREDITCARD_STATE HttpRequestConstants.CUSTOMER_CREDITCARD_ZIPCODE HttpRequestConstants.CUSTOMER_CREDITCARD_COUNTRY (code location: newcctemplate.inc template.) Required HttpRequestConstants.USER_NAME HTTPServletRequest HttpRequestConstants.PASSWORD HttpRequestConstants.CONFIRM_PASSWORD		(code location: newaddresstemplate.inc template.)
(Payment Information) HttpRequestConstants.CUSTOMER_CREDITCARD_NUMBER HttpRequestConstants.CUSTOMER_CREDITCARD_MONTH HttpRequestConstants.CUSTOMER_CREDITCARD_YEAR HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS1 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS2 HttpRequestConstants.CUSTOMER_CREDITCARD_CITY HttpRequestConstants.CUSTOMER_CREDITCARD_STATE HttpRequestConstants.CUSTOMER_CREDITCARD_ZIPCODE HttpRequestConstants.CUSTOMER_CREDITCARD_COUNTRY (code location: newcctemplate.inc template.) Required HttpRequestConstants.USER_NAME HTTPServletRequest HttpRequestConstants.PASSWORD Parameters HttpRequestConstants.CONFIRM_PASSWORD	HTTPServletRequest	HttpRequestConstants.CUSTOMER_CREDITCARD_TYPE
HttpRequestConstants.CUSTOMER_CREDITCARD_MONTH HttpRequestConstants.CUSTOMER_CREDITCARD_YEAR HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS1 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS2 HttpRequestConstants.CUSTOMER_CREDITCARD_CITY HttpRequestConstants.CUSTOMER_CREDITCARD_STATE HttpRequestConstants.CUSTOMER_CREDITCARD_ZIPCODE HttpRequestConstants.CUSTOMER_CREDITCARD_COUNTRY (code location: newcctemplate.inc template.) Required HttpRequestConstants.USER_NAME HTTPServletRequest HttpRequestConstants.PASSWORD Parameters HttpRequestConstants.CONFIRM_PASSWORD	Parameters	HttpRequestConstants.CUSTOMER_CREDITCARD_HOLDER
HttpRequestConstants.CUSTOMER_CREDITCARD_YEAR HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS1 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS2 HttpRequestConstants.CUSTOMER_CREDITCARD_CITY HttpRequestConstants.CUSTOMER_CREDITCARD_STATE HttpRequestConstants.CUSTOMER_CREDITCARD_ZIPCODE HttpRequestConstants.CUSTOMER_CREDITCARD_COUNTRY (code location: newcctemplate.inc template.) Required HttpRequestConstants.USER_NAME HTTPServletRequest HttpRequestConstants.PASSWORD Parameters HttpRequestConstants.CONFIRM_PASSWORD	(Payment Information)	HttpRequestConstants.CUSTOMER_CREDITCARD_NUMBER
HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS1 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS2 HttpRequestConstants.CUSTOMER_CREDITCARD_CITY HttpRequestConstants.CUSTOMER_CREDITCARD_STATE HttpRequestConstants.CUSTOMER_CREDITCARD_ZIPCODE HttpRequestConstants.CUSTOMER_CREDITCARD_ZIPCODE HttpRequestConstants.CUSTOMER_CREDITCARD_COUNTRY (code location: newcctemplate.inc template.) Required HttpRequestConstants.USER_NAME HTTPServletRequest HttpRequestConstants.PASSWORD Parameters HttpRequestConstants.CONFIRM_PASSWORD		HttpRequestConstants.CUSTOMER_CREDITCARD_MONTH
HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS2 HttpRequestConstants.CUSTOMER_CREDITCARD_CITY HttpRequestConstants.CUSTOMER_CREDITCARD_STATE HttpRequestConstants.CUSTOMER_CREDITCARD_ZIPCODE HttpRequestConstants.CUSTOMER_CREDITCARD_COUNTRY (code location: newcctemplate.inc template.) Required HttpRequestConstants.USER_NAME HTTPServletRequest HttpRequestConstants.PASSWORD Parameters HttpRequestConstants.CONFIRM_PASSWORD		HttpRequestConstants.CUSTOMER_CREDITCARD_YEAR
HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS2 HttpRequestConstants.CUSTOMER_CREDITCARD_CITY HttpRequestConstants.CUSTOMER_CREDITCARD_STATE HttpRequestConstants.CUSTOMER_CREDITCARD_ZIPCODE HttpRequestConstants.CUSTOMER_CREDITCARD_COUNTRY (code location: newcctemplate.inc template.) Required HttpRequestConstants.USER_NAME HTTPServletRequest HttpRequestConstants.PASSWORD Parameters HttpRequestConstants.CONFIRM_PASSWORD		HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS1
HttpRequestConstants.CUSTOMER_CREDITCARD_CITY HttpRequestConstants.CUSTOMER_CREDITCARD_STATE HttpRequestConstants.CUSTOMER_CREDITCARD_ZIPCODE HttpRequestConstants.CUSTOMER_CREDITCARD_COUNTRY (code location: newcctemplate.inc template.) Required HttpRequestConstants.USER_NAME HTTPServletRequest HttpRequestConstants.PASSWORD Parameters HttpRequestConstants.CONFIRM_PASSWORD		
HttpRequestConstants.CUSTOMER_CREDITCARD_STATE HttpRequestConstants.CUSTOMER_CREDITCARD_ZIPCODE HttpRequestConstants.CUSTOMER_CREDITCARD_COUNTRY (code location: newcctemplate.inc template.) Required HttpRequestConstants.USER_NAME HTTPServletRequest HttpRequestConstants.PASSWORD Parameters HttpRequestConstants.CONFIRM_PASSWORD		
HttpRequestConstants.CUSTOMER_CREDITCARD_ZIPCODE HttpRequestConstants.CUSTOMER_CREDITCARD_COUNTRY (code location: newcctemplate.inc template.) Required HttpRequestConstants.USER_NAME HTTPServletRequest HttpRequestConstants.PASSWORD Parameters HttpRequestConstants.CONFIRM_PASSWORD		
HttpRequestConstants.CUSTOMER_CREDITCARD_COUNTRY (code location: newcctemplate.inc template.) Required HttpRequestConstants.USER_NAME HTTPServletRequest HttpRequestConstants.PASSWORD Parameters HttpRequestConstants.CONFIRM_PASSWORD		
(code location: newcctemplate.inc template.) Required		
Required HttpRequestConstants.USER_NAME HTTPServletRequest HttpRequestConstants.PASSWORD Parameters HttpRequestConstants.CONFIRM_PASSWORD		
HTTPServletRequest HttpRequestConstants.PASSWORD Parameters HttpRequestConstants.CONFIRM_PASSWORD		(code rocation. newcocemptace. the template.)
Parameters HttpRequestConstants.CONFIRM_PASSWORD	Required	HttpRequestConstants.USER_NAME
	HTTPServletRequest	HttpRequestConstants.PASSWORD
(Account Information) (and a location and a supplier of the su	Parameters	HttpRequestConstants.CONFIRM_PASSWORD
(Code location, newuser. Jsp template.)	(Account Information)	(code location: newuser.jsp template.)

Required Pipeline Session properties	None
Updated Pipeline Session properties	PipelineSessionConstants.CUSTOMER PipelineSessionConstants.PASSWORD PipelineSessionConstants.CREDITCARD_KEY (only if customer provides a credit card update).
Removed Pipeline Session properties	None
Validation	Checks that the required fields contain values and checks that the credit card number is not less than 16 digits (15 digits for AMEX type). Also checks that the password and confirm password fields contain matching values.
Exceptions	InvalidInputException, thrown when required fields are empty or credit card number is less than 16 digits (15 digits for AMEX type).

LoginCustomerIP

Class Name	<pre>examples.wlcs.sampleapp.customer.webflow.LoginCust omerIP</pre>
Description	Processes the input of login.jsp and allows the customer to access the secure pages of the site. Creates and places a CustomerValue object into the Pipeline Processor session.
Required HTTPServletRequest Parameters	None
Required Pipeline Session properties	PipelineSessionConstants.CUSTOMER PipelineSessionConstants.PASSWORD PipelineSessionConstants.CREDITCARD_KEY (only if the customer provides a credit card update).

2 Customer Registration and Login Services

Updated Pipeline Session properties	None
Removed Pipeline Session properties	PipelineSessionConstants.PASSWORD
Validation	Verifies that the username and password are correct.
Exceptions	InvalidInputException, thrown if either the username or password is invalid.
	ProcessingException, thrown if the username is invalid or cannot get authentication.

Pipeline Components

This section provides a brief description of each Pipeline Component associated with the Customer Login and Registration Services JSP template(s).

Note: Some Pipeline Components extend other, base Pipeline Components. For more information on the base classes, see the *Javadoc*.

RegisterUserPC

Class Name	examples.wlcs.sampleapp.customer.pipeline. RegisterUserPC
Description	Retrieves the CustomerValue object and password from the Pipeline Processor session, and creates a CUSTOMER attribute.
Contained in	CustomerProfile Pipeline
Required Pipeline Session Properties	PipelineSessionConstants.CUSTOMER PipelineSessionConstants.PASSWORD
Updated Pipeline Session Properties	None
Removed Pipeline Session Properties	PipelineSessionConstants.PASSWORD
Туре	Java class
JNDI Name	None
Exceptions	PipelineException, thrown when the Pipeline Component cannot create the user.

${\bf EncryptCreditCardPC}$

Class Name	examples.wlcs.sampleapp.customer.pipeline. EncryptCreditCardPC
Description	Uses the CREDITCARD_KEY object to retrieve a customer credit card, encrypts the credit card number, and then adds the modified credit card back to the PipelineSession CustomerValue attribute.
Contained in	CustomerProfile Pipeline
Required Pipeline Session Properties	PipelineSessionConstants.CREDITCARD_KEY
Updated Pipeline Session Properties	PipelineSessionConstants.CUSTOMER
Removed Pipeline Session Properties	PipelineSessionConstants.CREDITCARD_KEY
Туре	Java class
JNDI Name	None
Exceptions	PipelineException, thrown when the Pipeline Component cannot find the user in the Pipeline Processor session or the creditcard_key is invalid or the encryption did not complete successfully.

3 Customer Profile Services

Customers who have registered with your e-commerce site may, from time to time, change the information stored in their profile. For example, customers may want to send a shipment to a different address, or use a different credit card. To help you meet your customers' needs, the Registering Customers and Managing Customer services provide you with an implementation of these Customer Profile Services. This topic describes the pages that allow registered customers to modify various aspects of their customer profile.

This topic includes the following sections:

- JavaServer Pages (JSPs)
 - viewprofile.jsp Template
 - editprofile.jsp Template
 - profilenewaddress.jsp Template
 - profileeditaddress.jsp Template
 - profilenewcc.jsp Template
 - profileeditcc.jsp Template
 - changepassword.jsp Template
 - editdemographics.jsp Template
- Input Processors
 - DeleteCreditCardIP
 - DeleteShippingAddressIP

- UpdateAccountInfoIP
- UpdateBasicInfoIP
- UpdateDemographicInfoIP
- UpdatePaymentInfoIP
- UpdateShippingInfoIP
- Pipeline Components
 - UpdateBasicInfoPC
 - UpdateDemographicInfoPC
 - UpdatePasswordPC
 - UpdatePaymentInfoPC
 - UpdateShippingInfoPC

JavaServer Pages (JSPs)

The Registering Customers and Managing Customer services contain a number of JavaServer Pages (JSPs) that allow customers to view or update their stored profile. Remember, you can always use these templates for your Web site, or you can adapt them to meet your specific needs. This section describes each of these pages in detail.

Note: For a description of the complete set of JSPs used in the Commerce services Web application and a listing of their locations in the directory structure, see the "Summary of the JSP Templates" documentation.

viewprofile.jsp Template

The viewprofile.jsp template (shown in Figure 3-1) allows a registered customer to view his or her existing profile information. It displays the existing information in five categories: personal information, shipping addresses, credit cards, username and password, and demographic information. There are options in each category for updating, deleting, or adding information.

Sample Browser View

Figure 3-1 shows an annotated version of the viewprofile.jsp template. The black lines and callout text are explanations of the template components.

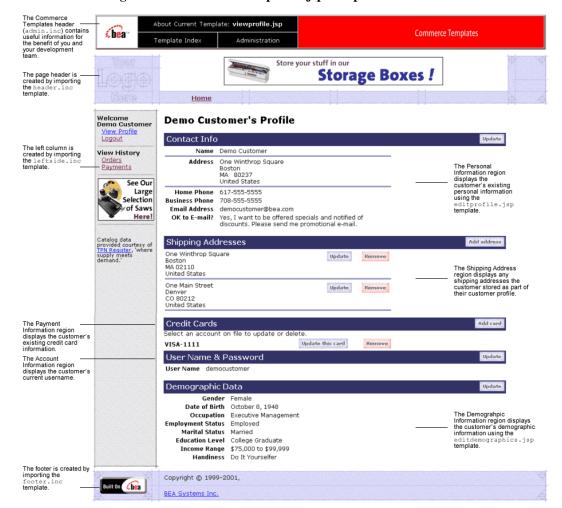


Figure 3-1 Annotated viewprofile.jsp Template

Location in the Directory Structure

You can find the viewprofile.jsp template file at the following location, where PORTAL_HOME is the directory in which you installed Commerce services:

```
%PORTAL_HOME\applications\wlcsApp\wlcs\
commerce\user\viewprofile.jsp(Windows)
%PORTAL_HOME/applications/wlcsApp/wlcs/
commerce/user/viewprofile.jsp(UNIX)
```

Tag Library Imports

The viewprofile.jsp template uses existing WebLogic Server JSP tags and WebLogic Personalization Server's User Management JSP tags. Therefore, the template includes the following JSP tag libraries:

```
<%@ taglib uri="weblogic.tld" prefix="wl" %>
<%@ taglib uri="webflow.tld" prefix="webflow" %>
<%@ taglib uri="um.tld" prefix="um" %>
```

Note: For more information on the WebLogic Server JSP tags or the WebLogic Personalization Server's User Management JSP tags, see "JSP Tag Reference" in the *Guide to Building Personalized Applications* documentation.

These files reside in the following directory for the Commerce services Web application:

```
PORTAL_HOME\applications\wlcsApp\wlcs\
WEB-INF (Windows)

PORTAL_HOME/applications/wlcsApp/wlcs/
WEB-INF (UNIX)
```

Java Package Imports

The viewprofile.jsp template uses Java classes in the following packages and therefore includes these import statements:

```
<%@ page import="javax.servlet.*" %>
<%@ page import="javax.servlet.http.*" %>
<%@ page import="com.beasys.commerce.webflow.HttpRequestConstants" %>
```

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```
<%@ page import="com.beasys.commerce.webflow.PipelineSessionConstants" %>
<%@ page import="com.beasys.commerce.webflow.tags.WebFlowTagConstants" %>
<%@ page import="com.beasys.commerce.axiom.contact.*" %>
<%@ page import="com.beasys.commerce.ebusiness.customer.*" %>
<%@ page import="java.text.DateFormat"%>
```

Location in Default Webflow

If the customer is not logged in, the page prior to the viewprofile.jsp template is the customer login page (login.jsp). If the customer is already logged in, the page prior to the viewprofile.jsp template is any page from which the customer clicks the View Profile button. Based on what the customer decides to do after viewing their profile, the next page could be any of the following:

- editprofile.jsp, which allows customers to edit their personal information, including their name, contact address, and phone numbers,
- editdemographics.jsp, which allows customers to edit their demographic information.
- profilenewaddress.jsp, which allows customers to add a new shipping address.
- profileeditaddress.jsp, which allows customers to edit a shipping address,
- profilenewcc.jsp, which allows customers to add a new credit card to the profile,
- profileeditcc.jsp, which allows customers to edit information about an existing credit card, or
- changepassword.jsp, which allows customers to change their account password.

Each page is described in other sections of this document.

This template is part of the sampleapp_user namespace in the Webflow.

Note: For more information about the default Webflow, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline.*

Included JSP Templates

The following JSP templates are included in the viewprofile.jsp template:

- admin.inc, which shows the name of the current template and contains links to
 its *About* information, the JSP Template Index, and the Administration Tools.
 The admin.inc template should be removed from the production pages before
 they are moved to your live server.
- header.inc, which creates the page header. It is standard across many of the JSP templates provided by the Commerce services. The import call is: <%@ include file="/commerce/includes/header.inc" %>
- leftside.inc, which creates the left column and secondary placeholder for advertising. It is standard across many of the JSP templates provided by Commerce services. The import call is:
 - <%@ include file="/commerce/includes/leftside.inc" %>

Events

The viewprofile.jsp template presents a customer with several buttons, each of which is considered an event. These events trigger a particular response in the default Webflow that allow customers to continue. While this response can be to load another JSP, it is usually the case that an Input Processor or Pipeline is invoked first. Table 3-1 provides information about these events and the business logic they invoke.

Table 3-1 viewprofile.jsp Events

Event	Web Flow Response(s)	
button.updateBasicInfo	No business logic required. Loads editprofile.jsp.	
button.addNewShippingAddress	No business logic required. Loads profilenewaddress.jsp.	
button.updateShippingInfo	No business logic required. Loads profileeditaddress.jsp.	
button.deleteShippingAddress	DeleteShippingAddressIP DeleteShippingAddressFromProfile Pipeline	
button.updateDemograhpicInfo	No business logic required. Loads editdemographics.jsp.	
button.addNewCreditCard	No business logic required. Loads profilenewcc.jsp.	
button.updatePaymentInfo	No business logic required. Loads profileeditcc.jsp.	
button.deletePaymentInfo	DeleteCreditCardIP DeleteCreditCard Pipeline	
button.changePassword	No business logic required. Loads changepassword.jsp.	

Table 3-2 briefly describes each of the Pipelines from Table 3-1. For more information about individual Pipeline Components, see "Pipeline Components" on page 3-72.

Table 3-2 viewprofile.jsp Associated Pipelines

Pipeline	Description
DeleteShippingAddressFromProfile	Contains UpdateShippingInfoPC and is transactional.
DeleteCreditCard	Contains UpdatePaymentInfoPC and is transactional.

Dynamic Data Display

One purpose of the viewprofile.jsp template is to display the profile information a customer had previously entered. This is accomplished on viewprofile.jsp using a combination of WebLogic Server JSP tags, the WebLogic Personalization Server's User Management JSP tags, and accessor methods/attributes.

First, the getProfile JSP tag is used to set the customer profile (context) in the session for which the customer information should be retrieved, as shown in Listing 3-1.

Listing 3-1 Setting the Customer Context

```
<um:getProfile profileKey="<%=request.getRemoteUser()%>"
profileType="WLCS_Customer" />
```

Note: For more information on the User Management JSP tags, see "Personalization Server JSP Tag Library Reference" in the *Guide to Building Personalized Applications* documentation.

Next, the getProperty JSP tag is used to obtain the customer's contact address, a collection of the customer's shipping addresses, and a collection of the customer's credit cards, which are then initialized with data from their corresponding objects. This is shown in Listing 3-2.

Listing 3-2 Obtaining the Customer's Profile Information

```
<um:getProperty propertySet="CustomerProperties"
propertyName="contactAddress" id="contactAddressObject" />
```

```
<um:getProperty propertySet="CustomerProperties"
propertyName="shippingAddressMap" id="shippingAddressMapObject" />
<um:getProperty propertySet="CustomerProperties"
propertyName="creditCardsMap" id="creditCardsMapObject" />
<%

// Convert contactAddressObject and shippingAddressMapObject to the
// correct types.
   Address contactAddress = (Address) contactAddressObject;
   Map shippingAddressMap = (Map) shippingAddressMapObject;
   Map creditCardsMap = (Map) creditCardsMapObject;

// initialize shippingAddressMap
if(shippingAddressMap == null) {
        shippingAddressMap = new HashMap();
    }

%>
```

The data stored within these objects can now be accessed by calling accessor methods/attributes within Java scriptlets. Table 3-3 provides more detailed information about the methods/attributes for both the contact and shipping addresses. Table 3-4 provides information about the methods/attributes for the customer's credit cards.

Table 3-3 contactAddress/shippingAddress Accessor Methods/Attributes

Method/Attribute	Description
getStreet1()	The first line in the customer's contact or shipping street address.
getStreet2()	The second line in the customer's contact or shipping street address.
getCity()	The city in the customer's contact or shipping address.
getCounty()	The county in the customer's contact or shipping address.
getState()	The state in the customer's contact or shipping address.
getPostalCode()	The zip/postal code in the customer's contact or shipping address.

Table 3-3 contactAddress/shippingAddress Accessor Methods/Attributes

Method/Attribute	Description
getCountry()	The country in the customer's contact or shipping address.

Table 3-4 creditCard Accessor Methods/Attributes

Method/Attribute	Description
<pre>creditCard()</pre>	The credit card name, consisting of the credit card type and 4 digits (for example, VISA-4111).

Listing 3-3 illustrates how these accessor methods/attributes are used within Java scriptlets.

Listing 3-3 Using Accessor Methods/Attributes Within viewprofile.jsp Java Scriptlets

```
<div
class="tabletext"><b>Address</b></div>
<img src="<webflow:createResourceURL
resource="/commerce/images/shim.gif" /> " width="5"
height="5">
<div class="tabletext">
   <%=contactAddress.getStreet1()%><br>
   <% if(contactAddress.getStreet2().length() != 0) { %>
   <%=contactAddress.getStreet2()%><br> <% } %>
   <%=contactAddress.getCity()%><br>
   <%=contactAddress.getState()%> &nbsp;
   <%=contactAddress.getPostalCode()%><br>
   <%=contactAddress.getCountry()%></div>
 <!-- Loop through all of the credit cards -->
<wl:repeat
set="<%=((Map)creditCardsMapObject).keySet().iterator()%>"
id="creditCard" type="String" count="100000">
<!-- Output the credit card name -->
 <div
 class="tabletext"><b><%=creditCard%></b></div>
<!-- The update button -->
extraParams = HttpRequestConstants.CREDITCARD_KEY + "=" +
creditCard;
 <a href="<webflow:createWebflowURL</pre>
   event="button.updatePaymentInfo" namespace="sampleapp_user"
   extraParams="<%= extraParams %>" />"><img src=
   "<webflow:createResourceURL
   resource="/commerce/images/btn_updatecard.gif" />"
   border="0"></a>
```

```
.
.
.
.
.
./wl:repeat>
```

Notes: For more information on User Management JSP tags, see "Personalization Server JSP Tag Library Reference" in the *Guide to Building Personalized Applications*.

The getPropertyAsString JSP tag is used to directly obtain the customer's first and last name, the customer's home and business phone numbers, the customer's e-mail address, demographic information, and username and password. Listing 3-4 illustrates how to use the getPropertyAsString JSP tag to display ths customer's name in the welcome message at the top of the viewprofile.jsp template.

Listing 3-4 Obtaining the Customer's Name

```
<um:getPropertyAsString
propertySet="CustomerProperties" propertyName="firstName" />
<um:getPropertyAsString propertySet="CustomerProperties"
propertyName="lastName" />'s Profile
```

Form Field Specification

No form fields are used in the viewprofile.jsp template.

editprofile.jsp Template

The editprofile.jsp template (shown in Figure 3-2) allows a registered customer to update the personal information in their stored profile, which includes their name, address, home and business phone numbers, and e-mail address.

Sample Browser View

Figure 3-2 shows an annotated version of the editprofile.jsp template. The black lines and callout text are not part of the template; they are explanations of the template components.

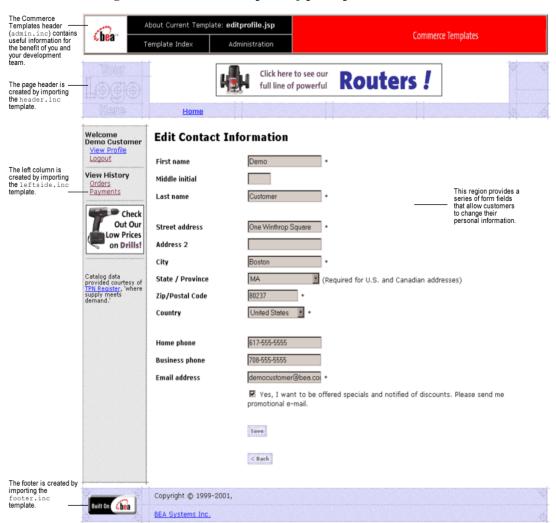


Figure 3-2 Annotated editprofile.jsp Template

Location in the Directory Structure

You can find the editprofile.jsp template file at the following location, where PORTAL_HOME is the directory in which you installed Commerce services:

```
%PORTAL_HOME\applications\wlcsApp\wlcs\commerce\user\
editprofile.jsp(Windows)

PORTAL_HOME/applications/wlcsApp/wlcs/commerce/user/
editprofile.jsp(UNIX)
```

Tag Library Imports

The editprofile.jsp template uses existing WebLogic Server JSP tags and the WebLogic Personalization Server's User Management JSP tags. Therefore, the template includes the following JSP tag libraries:

```
<%@ taglib uri="weblogic.tld" prefix="webflow" %>
<%@ taglib uri="um.tld" prefix="um" %>
<%@ taglib uri="es.tld" prefix="es" %>
```

Note: For more information on the WebLogic Server JSP tags or the User Management JSP tags, see "Personalization Server JSP Tag Library Reference" in the *Guide to Building Personalized Applications*.

These files reside in the following directory for the WebLogic Portal Web application:

```
PORTAL_HOME\applications\wlcsApp\wlcs\
WEB-INF (Windows)

PORTAL_HOME/applications/wlcsApp/wlcs/
WEB-INF (UNIX)
```

Java Package Imports

The editprofile.jsp template uses Java classes in the following packages and therefore includes these import statements:

```
<%@ page import="javax.servlet.*" %>
<%@ page import="javax.servlet.http.*" %>
<%@ page import="com.beasys.commerce.axiom.contact.*" %>
<%@ page import="com.beasys.commerce.ebusiness.customer.*" %>
```

```
<%@ page import="com.beasys.commerce.webflow.HttpRequestConstants" %>
<%@ page import="com.beasys.commerce.webflow.PipelineSessionConstants" %>
<%@ page import="java.util.*" %>
```

Location in Default Webflow

The page before editprofile.jsp is the page on which a customer can view their current profile (viewprofile.jsp). If there are no errors in the form submission, the next page in the default Webflow is viewprofile.jsp. If corrections do need to be made, editprofile.jsp is reloaded with an appropriate error message.

This template is part of the sampleapp_user namespace in the Webflow.

Note: For more information about the default Webflow, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline.*

Included JSP Templates

The following JSP templates are included into the editprofile.jsp template:

- admin.inc, which shows the name of the current template and contains links to its *About* information, the JSP Template Index, and the Administration Tools. The admin.inc template should be removed from the production pages before they are moved to your live server.
- stylesheet.inc, which is a cascading stylesheet that defines global paragraph and text styles for the site. The import call is:

```
<%@ include file="/commerce/includes/stylesheet.inc" %>
```

- header.inc, which creates the page header. It is standard across many of the JSP templates provided by Commerce services. The import call is: <@ include file="/commerce/includes/header.inc" %>
- leftside.inc, which creates the left column and secondary placeholder for advertising. It is standard across many of the JSP templates provided by Commerce services. The import call is:

```
<%@ include file="/commerce/includes/leftside.inc" %>
```

■ states.inc, which contains a list of states as part of an address. The state is only required for U.S. citizens. The import call is:

```
<%@ include file="/commerce/includes/states.inc" %>
```

countries.inc, which contains a list of countries as part of an address. The import call is:

```
<%@ include file="/commerce/includes/countries.inc" %>
```

■ footer.inc, which creates the page footer. It is standard across many of the JSP templates provided by Commerce services. The import call is:

```
<%@ include file="/commerce/includes/footer.inc" %>
```

Events

The editprofile.jsp template presents customers with two button events that trigger a particular response in the default Webflow, thereby allowing customers to continue. While this response can be to load another JSP, it is usually the case that an Input Processor or Pipeline is invoked first. Table 3-5 provides information about these events and the business logic they invoke.

Table 3-5 editprofile.jsp Events

Event	Webflow Response(s)
button.back	No business logic required. Loads viewprofile.jsp.
button.save	UpdateBasicInfoIP EditBasicInfo Pipeline

Table 3-6 briefly describes each of the Pipelines from Table 3-5. For more information about individual Pipeline Components, see "Pipeline Components" on page 3-72.

Table 3-6 editprofile.jsp Associated Pipelines

Pipeline	Description	
EditBasicInfo	Contains UpdateBasicInfoPC and is transactional.	

Dynamic Data Display

One purpose of the editprofile.jsp template is to display the profile information a customer had previously entered. This is accomplished on the editprofile.jsp template using a combination of WebLogic Server JSP tags, the User Management JSP tags, and accessor methods/attributes.

First, the getProfile JSP tag is used to set the customer profile (context) in the session for which the customer information should be retrieved, as shown in Listing 3-5.

Listing 3-5 Setting the Customer Context

```
<um:getProfile profileKey="<%=request.getRemoteUser()%>"
profileType="WLCS_Customer" />
```

Note: For more information on the User Management JSP tags, see "Personalization Server JSP Tag Library Reference" in the *Guide to Building Personalized Applications*.

Next, the getProperty JSP tag is used to obtain the customer's contact address, which is then initialized with data from the customer object, as shown in Listing 3-6.

Listing 3-6 Obtaining the Customer's Contact Address

The data stored within the contactAddress object can now be accessed by calling accessor methods/attributes within Java scriptlets. Table 3-7 provides more detailed information about the methods/attributes for the contact address.

Table 3-7 contactAddress Accessor Methods/Attributes

Method/Attribute	Description	
getStreet1()	The first line in the customer's contact street address.	
getStreet2()	The second line in the customer's contact street address.	
getCity()	The city in the customer's contact address.	

Table 3-7 contactAddress Accessor Methods/Attributes (Continued)

Method/Attribute	Description
getCounty()	The county in the customer's contact address.
getState()	The state in the customer's contact address.
getPostalCode()	The zip/postal code in the customer's contact address.
getCountry()	The country in the customer's contact address.

Notes: The getPropertyAsString JSP tag is used to obtain the customer's first and last name, the customer's home and business phone numbers, the customer's e-mail address, demographic information, and username and password.

The getProperty JSP tag is used to obtain a value from the EMAIL_OPT_IN attribute. This attribute designates if the customer wants to receive promotional items via e-mail.

Listing 3-7 illustrates how to use the getPropertyAsString JSP tag to obtain the customer's last name.

Listing 3-7 Obtaining the Customer's Last Name

```
<um:getPropertyAsString propertySet="CustomerProperties"
propertyName="firstName" id="firstName" />
```

Listing 3-8 illustrates how these accessor methods/attributes are used within Java scriptlets to display existing data within the form fields.

Listing 3-8 Using Accessor Methods/AttributesWithin editprofile.jsp Java Scriptlets

```
    <um:getPropertyAsString propertySet="CustomerProperties"
    propertyName="lastName" id="lastName" />
        <webflow:getValidatedValue
fieldName="<%=HttpRequestConstants.CUSTOMER_LAST_NAME%>"
```

```
fieldDefaultValue="<%=(String)lastName%>" fieldValue="customerLastName"
fieldStatus="status" validColor="black" invalidColor="red"
unspecifiedColor="black" fieldColor="fontColor" />
 <div class="tabletext"><font color=<%= fontColor %>><b>Last name
</b></font></div>
 <input type="text" name="<%=HttpRequestConstants.CUSTOMER_LAST_NAME%>"
value="<%=customerLastName%>" maxlength="30"> * 
<webflow:getValidatedValue
fieldName="<%=HttpRequestConstants.CUSTOMER_ADDRESS1%>"
fieldDefaultValue="<%=contactAddress.getStreet1()%>"
fieldValue="customerAddress1" fieldStatus="status" validColor="black"
invalidColor="red" unspecifiedColor="black" fieldColor="fontColor" />
 <div class="tabletext"><font color=<%= fontColor %>><b>Street
address</b></font></div>
 <input type="text" name="<%=HttpRequestConstants.CUSTOMER_ADDRESS1%>"
value="<%=customerAddress1%>" maxlength="30">*
```

Form Field Specification

The primary purpose of the editprofile.jsp template is to allow customers to edit their profile information using various HTML form fields. It is also used to pass needed information to the Webflow.

The form fields used in the editprofile.jsp template, and a description for each of these form fields are listed in Table 3-8.

Table 3-8 editprofile.jsp Form Fields

Parameter Name	Type	Description
"event"	Hidden	Indicates which event has been triggered. It is used by the Webflow to determine what happens next.

Table 3-8 editprofile.jsp Form Fields (Continued)

Parameter Name	Type	Description
"origin"	Hidden	The name of the current page (editprofile.jsp), used by the Webflow.
"namespace"	Hidden	The namespace for the JSP; sampleapp_user in this JSP.
HttpRequestConstants. CUSTOMER_FIRST_NAME	Textbox	The customer's first name.
HttpRequestConstants. CUSTOMER_MIDDLE_NAME	Textbox	The customer's middle initial.
HttpRequestConstants. CUSTOMER_LAST_NAME	Textbox	The customer's last name.
HttpRequestConstants. CUSTOMER_ADDRESS1	Textbox	The first line in the customer's street address.
HttpRequestConstants. CUSTOMER_ADDRESS2	Textbox	The second line in the customer's street address.
HttpRequestConstants. CUSTOMER_CITY	Textbox	The city in the customer's address.
HttpRequestConstants. CUSTOMER_STATE	Listbox	The state in the customer's address.
HttpRequestConstants. CUSTOMER_ZIPCODE	Textbox	The zip code in the customer's address.
HttpRequestConstants. CUSTOMER_COUNTRY	Listbox	The country in the customer's address.
HttpRequestConstants. CUSTOMER_HOME_PHONE	Textbox	The customer's home phone number.
HttpRequestConstants. CUSTOMER_BUSINESS_PHONE	Textbox	The customer's business phone number.
HttpRequestConstants. CUSTOMER_EMAIL	Textbox	The customer's e-mail address.

Table 3-8 editprofile.jsp Form Fields (Continued)

Parameter Name	Type	Description
HttpRequestConstants. CUSTOMER_EMAIL_OPT_IN	Checkbox	Indicates that the customer wants to receive promotional materials via e-mail.

Note: Parameters that are literals in the JSP code are shown in quotes, while non-literals will require scriptlet syntax (such as <%= HttpRequestConstants.CUSTOMER_EMAIL %>) for use in the JSP.

profilenewaddress.jsp Template

The profilenewaddress.jsp template (shown in Figure 3-3) allows a registered customer to add a new shipping address to their stored profile.

Sample Browser View

Figure 3-3 shows an annotated version of the profilenewaddress.jsp template. The black lines and callout text are not part of the template; they are explanations of the template components.



Figure 3-3 Annotated profilenewaddress.jsp Template

Location in the Directory Structure

The footer is created by importing the footer.inc template

You can find the profilenewaddress.jsp template file at the following location, where PORTAL_HOME is the directory in which you installed Commerce services:

```
%PORTAL_HOME\applications\wlcsApp\wlcs\
commerce\user\profilenewaddress.jsp(Windows)
PORTAL_HOME/applications/wlcsApp/wlcs/
```

commerce/user/profilenewaddress.jsp (UNIX)

Tag Library Imports

The profilenewaddress.jsp template uses the Webflow and Pipeline JSP tags. Therefore, the template includes the following JSP tag libraries:

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```
<%@ taglib uri="webflow.tld" prefix="webflow" %>
```

Note: For more information about the Webflow and Pipeline JSP tags, see the *Guide* to Managing Presentation and Business Logic: Using Webflow and Pipeline.

These files reside in the following directory for the Commerce services Web application:

```
PORTAL_HOME\applications\wlcsApp\wlcs\
WEB-INF (Windows)

PORTAL_HOME/applications/wlcsApp/wlcs/
WEB-INF (UNIX)
```

Java Package Imports

The profilenewaddress.jsp template uses Java classes in the following packages and therefore includes these import statements:

```
<%@ page import="javax.servlet.*" %>
<%@ page import="javax.servlet.http.*" %>
<%@ page import="com.beasys.commerce.webflow.tags.WebFlowTagConstants" %>
<%@ page import="com.beasys.commerce.webflow.HttpRequestConstants" %>
<%@ page import="com.beasys.commerce.axiom.contact.*" %>
<%@ page import="com.beasys.commerce.ebusiness.customer.*" %>
```

Location in Default Webflow

The page before profilenewaddress.jsp is the page on which a customer can view their current profile (viewprofile.jsp). If there are no errors in the form submission, the next page in the default Webflow is viewprofile.jsp. If corrections do need to be made, profilenewaddress.jsp is reloaded with an appropriate error message.

This template is part of the sampleapp_user namespace in the Webflow.

Note: For more information about the default Webflow, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline.*

Included JSP Templates

The following JSP templates are included in the profilenewaddress.jsp template:

- admin.inc, which shows the name of the current template and contains links to its *About* information, the JSP Template Index, and the Administration Tools. The admin.inc template should be removed from the production pages before they are moved to your live server.
- stylesheet.inc, which is a cascading stylesheet that defines global paragraph and text styles for the site. The import call is:

```
<%@ include file="/commerce/includes/stylesheet.inc" %>
```

- header.inc, which creates the page header. It is standard across many of the JSP templates provided by Commerce services. The import call is: <@ include file="/commerce/includes/header.inc" %>
- leftside.inc, which creates the left column and secondary placeholder for advertising. It is standard across many of the JSP templates provided by Commerce services. The import call is:

```
<%@ include file="/commerce/includes/leftside.inc" %>
```

- newaddresstemplate.inc, which also uses the states.inc and the countries.inc templates. The template is described in "About the Included newaddresstemplate.inc Template" on page 2-16.

Events

The profilenewaddress.jsp template presents customers with two button events that trigger a particular response in the default Webflow, thereby allowing customers to continue. While this response can be to load another JSP, it is usually the case that an Input Processor or Pipeline is invoked first. Table 3-9 provides information about these events and the business logic they invoke.

Table 3-9 profilenewaddress.jsp Events

Event	Webflow Response(s)	
button.back	No business logic required. Loads viewprofile.jsp.	
button.save	UpdateShippingInfoIP ProfileNewAddress Pipeline	

Table 3-10 briefly describes each of the Pipelines from Table 3-9. For more information about individual Pipeline Components, see "Pipeline Components" on page 3-72.

Table 3-10 profilenewaddress.jsp Associated Pipelines

Pipeline	Description	
ProfileNewAddress	Contains UpdateShippingInfoPC and is transactional.	

Dynamic Data Display

No dynamic data is presented on the profilenewaddress.jsp template.

Form Field Specification

The primary purpose of the profilenewaddress.jsp template is to allow customers to enter a new shipping address using various HTML form fields. It is also used to pass needed information to the Webflow.

The form fields used in the profilenewaddress.jsp template, most of which are imported from the newaddresstemplate.jsp file, and a description for each of these form fields are shown in Table 3-11.

Note: If a form field is imported from another template, it is indicated in the description. Form fields without import information are in the profilenewaddress.jsp template.

Table 3-11 profilenewaddress.jsp Form Fields

Parameter Name	Туре	Description
"event"	Hidden	Indicates which event has been triggered. It is used by the Webflow to determine what happens next.
"origin"	Hidden	The name of the current page (profilenewaddress.jsp), used by the Webflow.
"namespace"	Hidden	The namespace for the JSP; sampleapp_user in this JSP.
HttpRequestConstants. CUSTOMER_SHIPPING_ADDRESS1	Textbox	The first line in the customer's street address. Imported from newaddresstemplate.inc.
HttpRequestConstants. CUSTOMER_SHIPPING_ADDRESS2	Textbox	The second line in the customer's street address. Imported from newaddresstemplate.inc.
HttpRequestConstants. CUSTOMER_SHIPPING_CITY	Textbox	The city in the customer's address. Imported from newaddresstemplate.inc.
HttpRequestConstants. CUSTOMER_SHIPPING_STATE	Listbox	The state in the customer's address. Imported from newaddresstemplate.inc.
HttpRequestConstants. CUSTOMER_SHIPPING_ZIPCODE	Textbox	The zip code in the customer's address. Imported from newaddresstemplate.inc.
HttpRequestConstants. CUSTOMER_SHIPPING_COUNTRY	Listbox	The country in the customer's address. Imported from newaddresstemplate.inc.

Note: Parameters that are literals in the JSP code are shown in quotes, while non-literals will require scriptlet syntax (such as <%= HttpRequestConstants.CUSTOMER_SHIPPING_COUNTRY %>) for use in the JSP.

profileeditaddress.jsp Template

The profileeditaddress.jsp template (shown in Figure 3-4) allows a registered customer to update the shipping address information stored as part of their profile.

Sample Browser View

Figure 3-4 shows an annotated version of the profileeditaddress.jsp template. The black lines and callout text are not part of the template; they are explanations of the template components.

The Commerce Templates header About Current Template: profileeditaddress.jsp (admin.inc) contains useful information for **Commerce Templates** & bea Template Index Administration the benefit of you and your development **Routers!** Click here to see our The page header is -created by importing the header.inc template. full line of powerful **Home** Welcome Demo Customer **Update Profile** This region provides a series of form fields to One Winthrop Square Street address The left column is created by importing the leftside.inc template. **View History** Address 2 update an existing shipping address Boston Payments City MA (Required for U.S. and Canadian addresses) State / Province See Our 02110 Large Postal/Zip Code Selection United States of Saws Save < Back Copyright @ 1999-2001, uilt On bea BEA Systems Inc

Figure 3-4 Annotated profileeditaddress.jsp Template

Location in Commerce services Directory Structure

The footer is created by importing the footer.inc template.

You can find the profileeditaddress.jsp template file at the following location, where PORTAL_HOME is the directory in which you installed Commerce services:

```
%PORTAL_HOME\applications\wlcsApp\wlcs\
commerce\user\profileeditaddress.jsp(Windows)

PORTAL_HOME/applications/wlcsApp/wlcs/
commerce/user/profileeditaddress.jsp(UNIX)
```

Tag Library Imports

The profileeditaddress.jsp template uses the Webflow JSP tags and WebLogic Personalization Server's User Management JSP tags. Therefore, the template includes the following JSP tag libraries:

```
<%@ taglib uri="webflow.tld" prefix="webflow" %>
<%@ taglib uri="um.tld" prefix="um" %>
```

Note: For more information on the User Management JSP tags, see "Personalization Server JSP Tag Library Reference" in the *Guide to Building Personalized Applications*. For more information about the Webflow JSP tags, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline*.

These files reside in the following directory for the Commerce services Web application:

```
PORTAL_HOME\applications\wlcsApp\wlcs\
WEB-INF (Windows)

PORTAL_HOME/applications/wlcsApp/wlcs/
WEB-INF (UNIX)
```

Java Package Imports

The profileeditaddress.jsp template uses Java classes in the following packages and therefore includes these import statements:

```
<%@ page import="javax.servlet.*" %>
<%@ page import="javax.servlet.http.*" %>
<%@ page import="com.beasys.commerce.webflow.tags.WebFlowTagConstants" %>
<%@ page import="com.beasys.commerce.axiom.contact.*" %>
<%@ page import="com.beasys.commerce.ebusiness.customer.*" %>
<%@ page import="com.beasys.commerce.webflow.HttpRequestConstants" %>
```

Location in Default Webflow

The page before the profileeditaddress.jsp template is the page that allows a customer to view their current profile (viewprofile.jsp). If there are no errors in the form submission, the next page in the default Webflow is viewprofile.jsp. If corrections do need to be made, the profileeditaddress.jsp template is reloaded with an appropriate error message.

This template is part of the sampleapp_user namespace in the Webflow.

Note: For more information about the default Webflow, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline.*

Included JSP Templates

The following JSP templates are included in the profileeditaddress.jsp template:

- admin.inc, which shows the name of the current template and contains links to its *About* information, the JSP Template Index, and the Administration Tools.
 The admin.inc template should be removed from the production pages before they are moved to your live server.
- header.inc, which creates the page header. It is standard across many of the JSP templates provided by Commerce services. The import call is: <@ include file="/commerce/includes/header.inc" %>
- leftside.inc, which creates the left column and secondary placeholder for advertising. It is standard across many of the JSP templates provided by Commerce services. The import call is:

```
<%@ include file="/commerce/includes/leftside.inc" %>
```

- editaddresstemplate.inc, which also uses the states.inc and the countries.inc templates.

About the Included editaddresstemplate.inc Template

The editaddresstemplate.inc template (included in all JSP templates that allow customers to edit a shipping address) provides a standardized format for both the form field presentation and error handling. The form fields are organized in a table, and upon form submission, the Input Processors associated with the editaddresstemplate.inc template will validate the form to ensure that all required fields contain values. If errors are detected, the editaddresstemplate.inc template will be redisplayed, with an error message at the top and the offending field labels shown in a red (as opposed to the original black) font. Previously entered correct information will still be displayed in the form.

Since the editaddresstemplate.inc template allows customers to edit an existing shipping address, the form fields on the page are also prefilled with information previously entered by the customer.

The behavior described above is accomplished on the editaddresstemplate.inc template using the getValidatedValue JSP tag and the accessor methods/attributes for defaultShippingAddress, as shown in Listing 3-9.

Listing 3-9 Use of the getValidatedValue JSP Tag and Accessor Methods/Attributes on editaddresstemplate.inc

Notes: For more information about the getValidatedValue JSP tag, see the *Guide* to Managing Presentation and Business Logic: Using Webflow and Pipeline.

For a list of the available accessor methods/attributes for defaultShippingAddress, see Table 3-14.

Events

The profileeditaddress.jsp template presents customers with two button events that trigger a particular response in the default Webflow, thereby allowing customers to continue. While this response can be to load another JSP, it is usually the case that an Input Processor or Pipeline is invoked first. Table 3-12 provides information about these events and the business logic they invoke.

Table 3-12 profileeditaddress.jsp Events

Event	Webflow Response(s)
button.back	No business logic required. Loads viewprofile.jsp.
button.save	UpdateShippingInfoIP ProfileEditAddress Pipeline

Table 3-13 briefly describes each of the Pipelines from Table 3-12. For more information about individual Pipeline Components, see "Pipeline Components" on page 3-72.

Table 3-13 profileeditaddress.jsp Associated Pipelines

Pipeline	Description	
ProfileEditAddress	Contains UpdateShippingInfoPC and is transactional.	

Dynamic Data Display

One purpose of the profileeditaddress.jsp template is to prepare the address information a customer had previously entered, so the editaddresstemplate.inc template can display this information in the address form fields. This is accomplished on the profileeditaddress.jsp template using a combination of Webflow JSP tags, the User Management JSP tags, and accessor methods/attributes.

First, the getProfile JSP tag is used to set the customer profile (context) in the session for which the customer information should be retrieved, as shown in Listing 3-10.

Listing 3-10 Setting the Customer Context

```
<um:getProfile profileKey="<%=request.getRemoteUser()%>"
profileType="WLCS_Customer" />
```

Note: For more information on the User Management JSP tags, see "Personalization Server JSP Tag Library Reference" in the *Guide to Building Personalized Applications*.

Next, the getProperty JSP tag is used to obtain a list of the customer's shipping addresses, which are then initialized with data from the customer object, as shown in Listing 3-11.

Listing 3-11 Obtaining the Customer's Shipping Address

```
<um:getProperty propertySet="CustomerProperties"
propertyName="shippingAddressMap" id="shippingAddressMapObject" />
<%

Map shippingAddressMap = (Map) shippingAddressMapObject;
String addressKey = request.getParameter(HttpRequestConstants.ADDRESS_KEY);
Address defaultShippingAddress = (Address) shippingAddressMap.get(addressKey);
%>
```

The data stored within the defaultShippingAddress object can now be accessed by calling accessor methods/attributes within Java scriptlets. In this scenario, the scriplets are in the editaddresstemplate.inc. Table 3-14 provides more detailed information about the methods/attributes for the default shipping address.

Table 3-14 defaultShippingAddress Accessor Methods/Attributes

Method/Attribute	Description
getStreet1()	The first line in the customer's shipping street address.
getStreet2()	The second line in the customer's shipping street address.
getCity()	The city in the customer's shipping address.
getCounty()	The county in the customer's shipping address.
getState()	The state in the customer's shipping address.
getPostalCode()	The zip/postal code in the customer's shipping address.
getCountry()	The country in the customer's shipping address.

Form Field Specification

The primary purpose of the profileeditaddress.jsp template is to allow customers to edit their profile information using various HTML form fields. It is also used to pass needed information to the Webflow.

The form fields used in the profileeditaddress.jsp template, most of which are imported from the editaddresstemplate.inc file, and a description for each of these form fields are listed in Table 3-15.

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Note: If a form field is imported from another template, it is indicated in the description. Form fields without import information are in the profileeditaddress.jsp template.

Table 3-15 profileeditaddress.jsp Form Fields

Parameter Name	Type	Description
"event"	Hidden	Indicates which event has been triggered. It is used by the Webflow to determine what happens next.
"origin"	Hidden	The name of the current page (profileeditaddress.jsp), used by the Webflow.
"namespace"	Hidden	The namespace for the JSP; sampleapp_user in this JSP.
HttpRequestConstants. CUSTOMER_SHIPPING_ADDRESS1	Textbox	The first line in the customer's shipping address. Imported from editaddresstemplate.inc.
HttpRequestConstants. CUSTOMER_SHIPPING_ADDRESS2	Textbox	The second line in the customer's shipping address. Imported from editaddresstemplate.inc.
HttpRequestConstants. CUSTOMER_SHIPPING_CITY	Textbox	The city in the customer's shipping address. Imported from editaddresstemplate.inc.
HttpRequestConstants. CUSTOMER_SHIPPING_STATE	Listbox	The state in the customer's shipping address. Imported from editaddresstemplate.inc.
HttpRequestConstants. CUSTOMER_SHIPPING_ZIPCODE	Textbox	The zip/postal code in the customer's shipping address. Imported from editaddresstemplate.inc.
HttpRequestConstants. CUSTOMER_SHIPPING_COUNTRY	Listbox	The country in the customer's shipping address. Imported from editaddresstemplate.inc.

Note: Parameters that are literals in the JSP code are shown in quotes, while

non-literals will require scriptlet syntax (such as <%= HttpRequestConstants.CUSTOMER_SHIPPING_COUNTRY %>) for use in the JSP.

profilenewcc.jsp Template

The profilenewcc.jsp template (shown in Figure 3-5) allows an existing customer to add new credit card information, which will be stored as part of their profile.

Sample Browser View

Figure 3-5 shows an annotated version of the profilenewcc. jsp template. The black lines and callout text are not part of the template, but explanations of the components.



Figure 3-5 Annotated profilenewcc.jsp Template

Location in the Directory Structure

You can find the profilenewcc.jsp template file at the following location, where PORTAL_HOME is the directory in which you installed Commerce services:

```
%PORTAL_HOME\applications\wlcsApp\wlcs\
commerce\user\profilenewcc.jsp (Windows)
PORTAL_HOME/applications/wlcsApp/wlcs/
```

commerce/user/profilenewcc.jsp (UNIX)

Tag Library Imports

The profilenewcc.jsp template uses the Webflow JSP tags. Therefore, the template includes the following JSP tag library:

```
<%@ taglib uri="webflow.tld" prefix="webflow" %>
```

Note: For more information about the Webflow JSP tags, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline.*

This file resides in the following directory for the Commerce services Web application:

```
%PORTAL_HOME\applications\wlcsApp\wlcs\
WEB-INF (Windows)

PORTAL_HOME/applications/wlcsApp/wlcs/
WEB-INF (UNIX)
```

Java Package Imports

The profilenewcc.jsp template uses Java classes in the following packages and therefore includes these import statements:

```
<%@ page import="javax.servlet.*" %>
<%@ page import="javax.servlet.http.*" %>
<%@ page import="com.beasys.commerce.webflow.tags.WebFlowTagConstants" %>
<%@ page import="com.beasys.commerce.webflow.HttpRequestConstants" %>
<%@ page import="com.beasys.commerce.axiom.contact.*" %>
<%@ page import="com.beasys.commerce.ebusiness.customer.*" %>
```

Location in Default Webflow

The page before the profilenewcc.jsp template is the page on which a customer can view their current profile (viewprofile.jsp). If there are no errors in the form submission, the next page in the default Webflow is viewprofile.jsp. If corrections do need to be made, the profilenewcc.jsp template is reloaded.

This template is part of the sampleapp_user namespace in the Webflow.

Note: For more information about the default Webflow, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline.*

Included JSP Templates

The following JSP templates are included in the profilenewcc. jsp template:

- admin.inc, which shows the name of the current template and contains links to
 its *About* information, the JSP Template Index, and the Administration Tools.
 The admin.inc template should be removed from the production pages before
 they are moved to your live server.
- header.inc, which creates the page header. It is standard across many of the JSP templates provided by Commerce services. The import call is: <@ include file="/commerce/includes/header.inc" %>
- newcctemplate.inc, which also uses the states.inc and the countries.inc templates. The template is described in "About the Included newcctemplate.inc Template" on page 2-17.

Events

The profilenewcc.jsp template presents customers with two button events that trigger a particular response in the default Webflow, thereby allowing customers to continue. While this response can be to load another JSP, it is usually the case that an Input Processor or Pipeline is invoked first. Table 3-16 provides information about these events and the business logic they invoke.

Table 3-16 profilenewcc.jsp Events

Event	Webflow Response(s)
button.back	No business logic required. Loads viewprofile.jsp.
button.save	UpdatePaymentInfoIP NewCreditCard Pipeline

Table 3-17 briefly describes each of the Pipelines from Table 3-16. For more information about individual Pipeline Components, see "Pipeline Components" on page 3-72.

Table 3-17 profilenewcc.jsp Associated Pipelines

Pipeline	Description
NewCreditCard	Contains EncryptCreditCardPC and UpdatePaymentInfoPC, and is transactional.

Dynamic Data Display

No dynamic data is presented on the profilenewcc.jsp template.

Form Field Specification

The primary purpose of the profilenewcc.jsp template is to allow customers to enter new credit card information using various HTML form fields. It is also used to pass needed information to the Webflow.

The form fields used in the profilenewcc.jsp template, most of which are imported from the newcctemplate.inc file, and a description for each of these form fields are listed in Table 3-18.

Note: If a form field is imported from another template, it is indicated in the description. Form fields without import information are in the profilenewcc.jsp template.

Table 3-18 profilenewcc.jsp Form Fields

Parameter Name	Type	Description
"event"	Hidden	Indicates which event has been triggered. It is used by the Webflow to determine what happens next.
"origin"	Hidden	The name of the current page (profilenewcc.jsp), used by the Webflow.
"namespace"	Hidden	The namespace for the JSP; sampleapp_user in this JSP.
HttpRequestConstants. CUSTOMER_CREDITCARD_TYPE	Listbox	The type of the customer's credit card. Imported from newcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_HOLDER	Textbox	The name on the credit card. Imported from newcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_NUMBER	Textbox	The number of the customer's credit card. Imported from newcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_MONTH	Listbox	The month of the customer's credit card expiration date. Imported from newcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_YEAR	Listbox	The year of the customer's credit card expiration date. Imported from newcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_ADDRESS1	Textbox	The first line in the customer's billing address. Imported from newcctemplate.inc.

Table 3-18 profilenewcc.jsp Form Fields (Continued)

Parameter Name	Type	Description
HttpRequestConstants. CUSTOMER_CREDITCARD_ADDRESS2	Textbox	The second line in the customer's billing address. Imported from newcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_CITY	Textbox	The city in the customer's billing address. Imported from newcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_STATE	Listbox	The state in the customer's billing address. Imported from newcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_ZIPCODE	Textbox	The zip/postal code in the customer's billing address. Imported from newcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_COUNTRY	Listbox	The country in the customer's billing address. Imported from newcctemplate.inc.

Note: Parameters that are literals in the JSP code are shown in quotes, while non-literals will require scriptlet syntax (such as

<code><%= HttpRequestConstants.CUSTOMER_CREDITCARD_COUNTRY %>)</code> for use in the $\ensuremath{\mathsf{JSP}}.$

profileeditcc.jsp Template

The profileeditcc.jsp template (shown in Figure 3-6) allows a customer to edit existing credit card information, which will be stored as part of their profile.

Sample Browser View

Figure 3-6 shows an annotated version of the profileeditcc.jsp template. The black lines and callout text are not part of the template; they are explanations of the template components.

The Commerce About Current Template: profileeditcc.jsp Templates header (admin.inc) contains useful information for **Commerce Templates** &bea* Template Index Administration the benefit of you and your development team. Click here to see our **Routers!** The page header is — created by importing the header.inc template. full line of powerful Home Welcome Demo Customer **Update Credit Card** Credit card type The left column is Name on card **View History** created by importing the leftside.inc template. This region provides a series of form fields to update credit card payment information. Card number xxxxxxxxxxxxxxxxx1111 Orders Payments Expiration date (mm/yyyy) 3 2003 - • See Our Credit card billing address One Winthrop Square Large Selection Address 2 of Saws Here! Bostor State (Required for U.S. and Canada addresses) 02110 Zip/Postal Code United States 8 Country required. Save < Back Copyright @ 1999-2001, Built On bea BEA Systems Inc. The footer is created by importing the footer.inc template.

Figure 3-6 Annotated profileeditcc.jsp Template

Location in the Directory Structure

You can find the profileeditcc.jsp template file at the following location, where PORTAL_HOME is the directory in which you installed Commerce services:

```
%PORTAL_HOME\applications\wlcsApp\wlcs\
commerce\user\profileeditcc.jsp (Windows)
PORTAL_HOME/applications/wlcsApp/wlcs/
```

commerce/user/profileeditcc.jsp(UNIX)

Tag Library Imports

The profileeditcc.jsp template uses the Webflow JSP tags and WebLogic Personalization Server's User Management JSP tags. Therefore, the template includes the following JSP tag libraries:

```
<%@ taglib uri="webflow.tld" prefix="webflow" %>
<%@ taglib uri="um.tld" prefix="um" %>
```

Note: For more information about the Webflow JSP tags, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline*. For more information on the User Management JSP tags, see "Personalization Server JSP Tag Library Reference" in the *Guide to Building Personalized Applications*.

These files reside in the following directory for the Commerce services Web application:

```
PORTAL_HOME\applications\wlcsApp\wlcs\
WEB-INF (Windows)

PORTAL_HOME/applications/wlcsApp/wlcs/
WEB-INF (UNIX)
```

Java Package Imports

The profileeditcc.jsp template uses Java classes in the following packages and therefore includes these import statements:

```
<%@ page import="javax.servlet.*" %>
<%@ page import="javax.servlet.http.*" %>
<%@ page import="com.beasys.commerce.webflow.tags.WebFlowTagConstants" %>
<%@ page import="com.beasys.commerce.webflow.HttpRequestConstants" %>
<%@ page import="com.beasys.commerce.axiom.contact.*" %>
<%@ page import="com.beasys.commerce.ebusiness.customer.*" %>
```

Location in Default Webflow

The page before the profileeditcc.jsp template is the page on which a customer can view their current profile (viewprofile.jsp). If there are no errors in the form submission, the next page in the default Webflow is viewprofile.jsp. If corrections do need to be made, profileeditcc.jsp is reloaded.

This template is part of the sampleapp_user namespace in the Webflow.

Note: For more information about the default Webflow, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline.*

Included JSP Templates

The following JSP templates are included in the profileeditcc.jsp template:

- admin.inc, which shows the name of the current template and contains links to its *About* information, the JSP Template Index, and the Administration Tools. The admin.inc template should be removed from the production pages before they are moved to your live server.
- header.inc, which creates the page header. It is standard across many of the
 - JSP templates provided by Commerce services. The import call is: <%@ include file="/commerce/includes/header.inc" %>
- leftside.inc, which creates the left column and secondary placeholder for advertising. It is standard across many of the JSP templates provided by Commerce services. The import call is:

```
<%@ include file="/commerce/includes/leftside.inc" %>
```

- editcctemplate.inc, which also uses the states.inc and the countries.inc templates.

About the Included editcctemplate.inc Template

The editcctemplate.inc template (included in all JSP templates that allow customers to edit a credit card) provides a standardized format for both the form field presentation and error handling. The form fields are organized in a table, and upon form submission, the Input Processors associated with the editcctemplate.inc template will validate the form to ensure that all required fields contain values. If errors are detected, the editcctemplate.inc template will be redisplayed, with an error

message at the top and the offending field labels shown in a red (as opposed to the original black) font. Previously entered correct information will still be displayed in the form.

Note: The profileeditcc.jsp template and the editcctemplate.inc do not allow the user to edit a credit card number. To change a credit card number, the credit card must be deleted and then added as a new card.

Since the editcctemplate.inc template allows customers to edit an existing shipping address, the form fields on the page are also prefilled with information previously entered by the customer.

The behavior described above is accomplished on the editcctemplate.inc template using the getValidatedValue JSP tag and the accessor methods/attributes for defaultCreditCard, as shown in Listing 3-12.

Listing 3-12 Use of the getValidatedValue JSP Tag and Accessor Methods/Attributes on editcctemplate.inc

```
<webflow:getValidatedValue
fieldName="<%=HttpRequestConstants.CUSTOMER_CREDITCARD_TYPE%>"
fieldDefaultValue="<%=defaultCreditCard.getType()%>"
fieldValue="customerCreditCardType" fieldStatus="status" validColor="black"
invalidColor="red" unspecifiedColor="black" fieldColor="fontColor" />
   <div class="tabletext"><font color=<%= fontColor %>>Credit card type</font>
   </div>
 <div class="tabletext"><%=customerCreditCardType%>
   </div>
   <input type="hidden"</pre>
name="<%=HttpRequestConstants.CUSTOMER_CREDITCARD_TYPE%>"
value="<%=customerCreditCardType%>">
 </t.d>
```

Notes: For more information about the getValidatedValue JSP tag, see the *Guide* to Managing Presentation and Business Logic: Using Webflow and Pipeline.

For a list of the available accessor methods/attributes for defaultCreditCard, see Table 3-21.

Events

The profileeditcc.jsp template presents customers with two button events that trigger a particular response in the default Webflow, thereby allowing customers to continue. While this response can be to load another JSP, it is usually the case that an Input Processor or Pipeline is invoked first. Table 3-19 provides information about these events and the business logic they invoke.

Table 3-19 profileeditcc.jsp Events

Event	Webflow Response(s)
button.back	No business logic required. Loads viewprofile.jsp.
button.save	UpdatePaymentInfoIP UpdateCreditCard Pipeline

Table 3-20 briefly describes each of the Pipelines from Table 3-19. For more information about individual Pipeline Components, see "Pipeline Components" on page 3-72.

Table 3-20 profileeditcc.jsp Associated Pipelines

Pipeline	Description
UpdateCreditCard	Contains UpdatePaymentPC and is transactional.

Dynamic Data Display

One purpose of the profileeditcc.jsp template is to prepare the credit card information a customer had previously entered, so the editcctemplate.inc template can display this information in the payment information form fields. This is accomplished on the profileeditcc.jsp template using a combination the User Management JSP tags and accessor methods/attributes.

First, the getProfile JSP tag is used to set the customer profile (context) in the session for which the customer information should be retrieved, as shown in Listing 3-13.

Listing 3-13 Setting the Customer Context

```
<um:getProfile profileKey="<%=request.getRemoteUser()%>"
profileType="WLCS_Customer" />
```

Note: For more information on the User Management JSP tags, see" Personalization Server JSP Tag Library Reference" in the *Guide to Building Personalized Applications*.

Next, the getProperty JSP tag is used to obtain the customer's list of credit cards (and related billing information), which is then initialized with data from the customer object, as shown in Listing 3-14.

Listing 3-14 Obtaining the Customer's Credit Cards and Billing Information

```
<um:getProperty propertySet="CustomerProperties"
propertyName="creditCardsMap" id="creditCardsMapObject" />
<%
Map creditCardsMap = (Map) creditCardsMapObject;
String creditCardKey =
   request.getParameter(HttpRequestConstants.CREDITCARD_KEY);
CreditCard defaultCreditCard = null;
defaultCreditCard = (CreditCard)
creditCardsMap.get(creditCardKey);
Address billingAddress = (Address)
defaultCreditCard.getBillingAddress();
%>
```

The data stored within the defaultCreditCard and billingAddress objects can now be accessed by calling accessor methods/attributes within Java scriptlets. Table 3-21 provides more detailed information about the methods/attributes for the defaultCreditCard, while Table 3-22 provides more information about the accessor methods/attributes on billingAddress.

Table 3-21 defaultCreditCard Accessor Methods/Attributes

Method/Attribute	Description
getType()	The credit card type (VISA, MasterCard, AMEX, etc.).
getName()	The credit card holder's name.
getDisplayNumber()	The credit card number for display (12 Xs and last 4 digits).
getNumber()	The credit card number.
<pre>getExpirationDate()</pre>	The credit card's expiration date.

Table 3-22 billingAddress Accessor Methods/Attributes

Method/Attribute	Description
getStreet1()	The first line in the customer's billing street address.
getStreet2()	The second line in the customer's billing street address.
getCity()	The city in the customer's billing address.
getState()	The state in the customer's billing address.
getPostalCode()	The zip/postal code in the customer's billing address.
getCountry()	The country in the customer's billing address.

Form Field Specification

Another purpose of the profileeditcc.jsp template is to allow customers to make changes to their credit card information using various HTML form fields. It is also used to pass needed information to the Webflow.

The form fields used in the profileeditcc.jsp template, most of which are imported from the editcctemplate.inc file. A description for each of these fields are listed in Table 3-23, "profileeditcc.jsp Form Fields," on page 3-50.

Table 3-23 profileeditcc.jsp Form Fields

Parameter Name	Type	Description
"event"	Hidden	Indicates which event has been triggered. It is used by the Webflow to determine what happens next.
"origin"	Hidden	The name of the current page (profileeditcc.jsp), used by the Webflow.
"namespace"	Hidden	The namespace for the JSP; sampleapp_user in this JSP.
HttpRequestConstants. CUSTOMER_CREDITCARD_KEY	Hidden	The map key of the customer's credit card.
HttpRequestConstants. CUSTOMER_CREDITCARD_TYPE	Hidden	The type of the customer's credit card. Imported from editcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_HOLDER	Textbox	The name on the credit card. Imported from editcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_NUMBER	Hidden	The number of the customer's credit card. This field does not display on screen. Imported from editcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_DISPLAY_ NUMBER	Hidden	The display version of the customer's credit card (12 Xs and last 4 digits). Imported from editcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_MONTH	Listbox	The month of the customer's credit card expiration date. Imported from editcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_YEAR	Listbox	The year of the customer's credit card expiration date. Imported from editcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_ADDRESS1	Textbox	The first line in the customer's billing address. Imported from editcctemplate.inc.

Table 3-23 profileeditcc.jsp Form Fields (Continued)

Parameter Name	Type	Description
HttpRequestConstants. CUSTOMER_CREDITCARD_ADDRESS2	Textbox	The second line in the customer's billing address. Imported from editcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_CITY	Textbox	The city in the customer's billing address. Imported from editcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_STATE	Listbox	The state in the customer's billing address. Imported from editcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_ZIPCODE	Textbox	The zip/postal code in the customer's billing address. Imported from editcctemplate.inc.
HttpRequestConstants. CUSTOMER_CREDITCARD_COUNTRY	Listbox	The country in the customer's billing address. Imported from editcctemplate.inc.

Note: Parameters that are literals in the JSP code are shown in quotes, while non-literals will require scriptlet syntax (such as

<code><%= HttpRequestConstants.CUSTOMER_CREDITCARD_COUNTRY %>)</code> for use in the $\ensuremath{\mathsf{JSP}}.$

changepassword.jsp Template

The changepassword.jsp template (shown in Figure 3-7) allows a customer to change their password, which will be stored as part of their profile.

Sample Browser View

Figure 3-7 shows an annotated version of the changepassword. jsp template. The black lines and callout text are not part of the template; they are explanations of the template components.



Figure 3-7 Annotated changepassword.jsp Template

Location in the Directory Structure

You can find the changepassword.jsp template file at the following location, where PORTAL_HOME is the directory in which you installed Commerce services:

```
PORTAL_HOME\applications\wlcsApp\wlcs\
commerce\user\changepassword.jsp(Windows)

PORTAL_HOME/applications/wlcsApp/wlcs/
commerce/user/changepassword.jsp(UNIX)
```

Tag Library Imports

The changepassword. jsp template uses Webflow JSP tags and User Management JSP tags. Therefore, the template includes the following JSP tag libraries:

```
<%@ taglib uri="webflow.tld" prefix="webflow" %>
<%@ taglib uri="um.tld" prefix="um" %>
```

Note: For more information about the Webflow JSP tags, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline*. For more information on the User Management JSP tags, see "Personalization Server JSP Tag Library Reference" in the *Guide to Building Personalized Applications*.

These files reside in the following directory for the Commerce services Web application:

```
PORTAL_HOME\applications\wlcsApp\wlcs\
WEB-INF (Windows)

PORTAL_HOME/applications/wlcsApp/wlcs/
WEB-INF (UNIX)
```

Java Package Imports

The changepassword. jsp template uses Java classes in the following packages and therefore includes these import statements:

```
<%@ page import="javax.servlet.*" %>
<%@ page import="javax.servlet.http.*" %>
<%@ page import="com.beasys.commerce.axiom.contact.*" %>
<%@ page import="com.beasys.commerce.ebusiness.customer.*" %>
<%@ page import="com.beasys.commerce.webflow.HttpRequestConstants" %>
```

Location in Default Webflow

The page before the changepassword.jsp template is the page on which a customer can view their current profile (viewprofile.jsp). If there are no errors in the form submission, the next page in the default Webflow is viewprofile.jsp. If corrections do need to be made, changepassword.jsp is reloaded.

This template is part of the sampleapp_user namespace in the Webflow.

Note: For more information about the default Webflow, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline.*

Included JSP Templates

The following JSP templates are included in the changepassword. jsp template:

- admin.inc, which shows the name of the current template and contains links to
 its *About* information, the JSP Template Index, and the Administration Tools.
 The admin.inc template should be removed from the production pages before
 they are moved to your live server.
- header.inc, which creates the page header. It is standard across many of the JSP templates provided by Commerce services. The import call is:
 - <%@ include file="/commerce/includes/header.inc" %>
- leftside.inc, which creates the left column and secondary placeholder for advertising. It is standard across many of the JSP templates provided by Commerce services. The import call is:

```
<%@ include file="/commerce/includes/leftside.inc" %>
```

■ footer.inc, which creates the page footer. It is standard across many of the JSP templates provided by Commerce services. The import call is:

```
<%@ include file="/commerce/includes/footer.inc" %>
```

Events

The changepassword.jsp template presents customers with two button events that trigger a particular response in the default Webflow, thereby allowing customers to continue. While this response can be to load another JSP, it is usually the case that an Input Processor or Pipeline is invoked first. Table 3-24 provides information about these events and the business logic they invoke.

Table 3-24 changepassword.jsp Events

Event	Webflow Response(s)
button.back	No business logic required. Loads viewprofile.jsp.
button.save	UpdateAccountInfoIP UpdateAccountProfile Pipeline

Table 3-25 briefly describes each of the Pipelines from Table 3-24. For more information about individual Pipeline Components, see "Pipeline Components" on page 3-72.

Table 3-25 changepassword.jsp Associated Pipelines

Pipeline	Description
UpdateAccountProfile	Contains UpdatePasswordPC and is not transactional.

Dynamic Data Display

One purpose of the changepassword.jsp template is to display the customer's username. This is accomplished on the changepassword.jsp template using a simple Java scriptlet, as shown in Listing 3-15.

Listing 3-15 Displaying the Customer's Username

Note: Customers cannot change their username, only their password. If the New Password and Confirm New Password form fields are not filled in correctly, the page is displayed with all fields empty (that is, no fields are dynamically prefilled upon reload).

Form Field Specification

The primary purpose of the changepassword.jsp template is to allow customers to make changes to their password using HTML form fields. It is also used to pass needed information to the Webflow.

The form fields used in the changepassword.jsp template, and a description for each of these form fields are listed in Table 3-26.

Table 3-26 changepassword.jsp Form Fields

Parameter Name	Type	Description
"event"	Hidden	Indicates which event has been triggered. It is used by the Webflow to determine what happens next.
"origin"	Hidden	The name of the current page (changepassword.jsp), used by the Webflow.
"namespace"	Hidden	The namespace for the JSP; sampleapp_user in this JSP.
HttpRequestConstants.PASSWORD	Password	The customer's existing password used to login.

Table 3-26 changepassword.jsp Form Fields (Continued)

Parameter Name	Type	Description
HttpRequestConstants. NEW_PASSWORD	Password	The new password chosen by the customer for login.
HttpRequestConstants. CONFIRM_PASSWORD	Password	Confirmation of the new password chosen by the customer for login.

Note: Parameters that are literals in the JSP code are shown in quotes, while non-literals will require scriptlet syntax (such as

<%= HttpRequestConstants.CONFIRM_PASSWORD %>) for use in the JSP.

editdemographics.jsp Template

The editdemographics.jsp template (shown in Figure 3-8) allows a customer to change their demographic information, which will be stored as part of their profile.

Sample Browser View

Figure 3-8 and Figure 3-9 show annotated versions of the editdemographics.jsp template. Although there are two figures, together these screen shots form the single editdemographics.jsp template. The black lines and callout text are not part of the template; they are explanations of the template components.

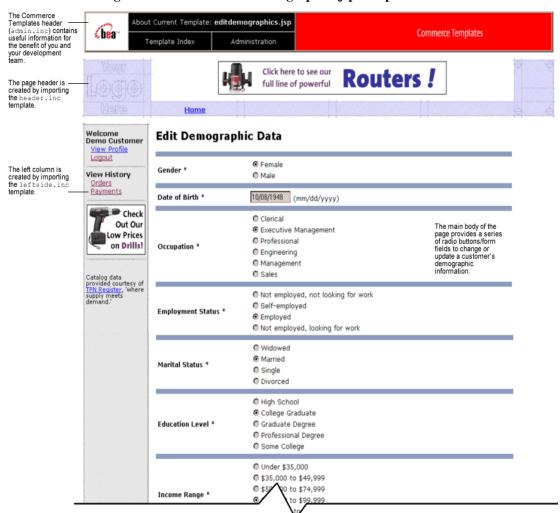


Figure 3-8 Annotated editdemographics.jsp Template - First half

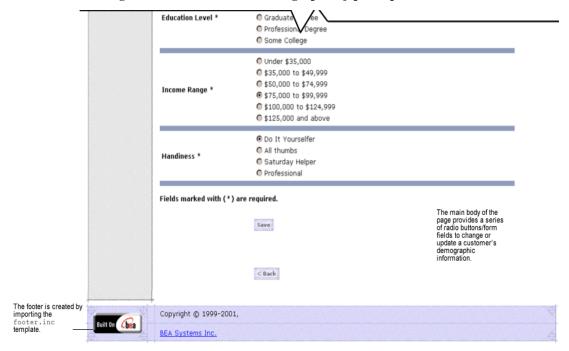


Figure 3-9 Annotated editdemographics.jsp Template - Second half

Location in the Directory Structure

You can find the changepassword.jsp template file at the following location, where PORTAL_HOME is the directory in which you installed Commerce services:

```
PORTAL_HOME\applications\wlcsApp\wlcs\
commerce\user\editdemographics.jsp(Windows)

PORTAL_HOME/applications/wlcsApp/wlcs/
commerce/user/editdemographics.jsp(UNIX)
```

Tag Library Imports

The editdemographics.jsp template uses Webflow JSP tags and WebLogic Personalization Server's User Management JSP tags. Therefore, the template includes the following JSP tag libraries:

```
<%@ taglib uri="webflow.tld" prefix="webflow" %>
<%@ taglib uri="um.tld" prefix="um" %>
<%@ taglib uri="es.tld" prefix="es" %>
```

Note: For more information about the Webflow JSP tags, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline*. For more information on the User Management JSP tags, see "Personalization Server JSP Tag Library Reference" in the *Guide to Building Personalized Applications*.

These files reside in the following directory for the Commerce services Web application:

```
PORTAL_HOME\applications\wlcsApp\wlcs\
WEB-INF (Windows)

PORTAL_HOME/applications/wlcsApp/wlcs/
WEB-INF (UNIX)
```

Java Package Imports

The editdemographics.jsp template uses Java classes in the following packages and therefore includes these import statements:

```
<%@ page import="javax.servlet.*" %>
<%@ page import="javax.servlet.http.*" %>
<%@ page import="com.beasys.commerce.webflow.HttpRequestConstants" %>
<%@ page import="com.beasys.commerce.axiom.contact.*" %>
<%@ page import="com.beasys.commerce.ebusiness.customer.*" %>
<%@ page import="java.util.*" %>
```

Location in Default Webflow

The page before the editdemographics.jsp template is the page on which a customer can view their current profile (viewprofile.jsp). If there are no errors in the form submission, the next page in the default Webflow is viewprofile.jsp. If corrections do need to be made, editdemographics.jsp is reloaded.

This template is part of the sampleapp_user namespace in the Webflow.

Note: For more information about the default Webflow, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline.*

Included JSP Templates

The following JSP templates are included in the changepassword. jsp template:

- admin.inc, which shows the name of the current template and contains links to its *About* information, the JSP Template Index, and the Administration Tools. The admin.inc template should be removed from the production pages before they are moved to your live server.
- stylesheet.inc, which is a cascading stylesheet that defines global paragraph and text styles for the site. The import call is:

```
<%@ include file="/commerce/includes/stylesheet.inc" %>
```

- header.inc, which creates the page header. It is standard across many of the JSP templates provided by Commerce services. The import call is: <@ include file="/commerce/includes/header.inc" %>
- leftside.inc, which creates the left column and secondary placeholder for advertising. It is standard across many of the JSP templates provided by Commerce services. The import call is:

```
<%@ include file="/commerce/includes/leftside.inc" %>
```

- newdemographictemplate.inc, which contains formatting for the demographic data. The template is described in "About the Included newdemographictemplate.inc Template" on page 2-18.
- footer.inc, which creates the page footer. It is standard across many of the JSP templates provided by Commerce services. The import call is:

 <%@ include file="/commerce/includes/footer.inc" %>

Events

The editdemographics.jsp template presents customers with two button events that trigger a particular response in the default Webflow, thereby allowing customers to continue. While this response can be to load another JSP, it is usually the case that an Input Processor or Pipeline is invoked first. Table 3-27 provides information about these events and the business logic they invoke.

Table 3-27 editdemographics.jsp Events

Event	Webflow Response(s)
button.back	No business logic required. Loads viewprofile.jsp.
button.save	UpdateDemographicInfoIP EditDemographicInfo Pipeline

Table 3-28 briefly describes each of the Pipelines from Table 3-27. For more information about individual Pipeline Components, see "Pipeline Components" on page 3-72.

Table 3-28 editdemographics.jsp Associated Pipelines

Pipeline	Description
EditDemographicInfo	Contains UpdateDemographicInfoPC and is transactional.

Dynamic Data Display

No dynamic data is presented on the editdemographics.jsp template.

Form Field Specification

The primary purpose of the editdemographics.jsp template is to allow customers to make changes to their demographic information using HTML form fields and radio buttons. It is also used to pass needed information to the Webflow.

The form fields used in the editdemographics.jsp template, most of which are imported from the newdemographictemplate.inc file, and a description for each of these form fields are listed in Table 3-29.

Note: If a form field is imported from another template, it is indicated in the description. Form fields without import information are in the editdemographics.jsp template.

Table 3-29 editdemographics.jsp Form Fields

Parameter Name	Type	Description
"event"	Hidden	Indicates which event has been triggered. It is used by the Webflow to determine what happens next.
"origin"	Hidden	The name of the current page (editdemographics.jsp), used by the Webflow.
"namespace"	Hidden	The namespace for the JSP; sampleapp_user in this JSP.
HttpRequestConstants. CUSTOMER_GENDER	Radio buttons	Identifies the customer as male or female. Imported.
HttpRequestConstants. CUSTOMER_DATE_OF_BIRTH	Textboxes	The customer's date of birth. Imported from newdemographictemplate.inc.
HttpRequestConstants. CUSTOMER_OCCUPATION	Radio buttons	The customer's job description. Imported from newdemographictemplate.inc.
HttpRequestConstants. CUSTOMER_EMPLOYMENT_STATUS	Radio buttons	Identifies if the customer has a job at the time of registration. Imported from newdemographictemplate.inc.
HttpRequestConstants. CUSTOMER_MARITAL_STATUS	Radio buttons	Identifies the customer's marital status. Imported from newdemographictemplate.inc.
HttpRequestConstants. CUSTOMER_EDUCATION_LEVEL	Radio buttons	Indentifies how much formal education the customer has completed. Imported from newdemographictemplate.inc.

Table 3-29 editdemographics.jsp Form Fields

Parameter Name	Type	Description
HttpRequestConstants. CUSTOMER_INCOME_RANGE	Radio buttons	Identifies the customer's yearly income. Imported from newdemographictemplate.inc.
HttpRequestConstants. CUSTOMER_QUALITY	Radio buttons	Ranks customer from beginner to expert in using your product. Imported from newdemographictemplate.inc.

Note: Parameters that are literals in the JSP code are shown in quotes, while non-literals will require scriptlet syntax (such as

<%= HttpRequestConstants.CUSTOMER_QUALITY %>) for use in the JSP.

Input Processors

This section provides a brief description of each Input Processor associated with the Customer Profile Services JSP template(s).

DeleteCreditCardIP

Class Name	<pre>examples.wlcs.sampleapp.customer.webflow. DeleteCreditCardIP</pre>
Description	Deletes a CreditCard from the CreditCardMap and creates a new CustomerValue object; then sets the CreditCardMap on CustomerValue and places it into the Pipeline session.
Required HTTPServletRequest Parameters	HttpRequestConstants.CREDITCARD_KEY (code location: profileeditcc.jsp template.)
Required Pipeline Session properties	PipelineSessionConstants.USER_NAME
Updated Pipeline Session properties	PipelineSessionConstants.CUSTOMER
Removed Pipeline Session properties	None
Validation	Verifies that HttpRequestConstants.CREDITCARD_KEY is not NULL.
Exceptions	InvalidInputException, thrown if HttpRequestConstants.CREDITCARD_KEY is NULL. InvalidSessionStateException, thrown if the session is unavailable or has expired.

Delete Shipping Address IP

Class Name	examples.wlcs.sampleapp.customer.webflow. DeleteShippingAddressIP
Description	Deletes a ShippingAddress from the ShippingAddressMap and creates a new CustomerValue object; then sets the ShippingAddressMap on CustomerValue and places it into the Pipeline session.
Required HTTPServletRequest Parameters	HttpRequestConstants.ADDRESS_KEY (code location: profileeditaddress.jsp template.)
Required Pipeline Session properties	PipelineSessionConstants.USER_NAME
Updated Pipeline Session properties	PipelineSessionConstants.CUSTOMER
Removed Pipeline Session properties	None
Validation	Verifies that HttpRequestConstants.ADDRESS_KEY is not NULL.
Exceptions	InvalidInputException, thrown if HttpRequestConstants.ADDRESS_KEY is NULL. InvalidSessionStateException, thrown if the session is unavailable or has expired.

UpdateAccountInfoIP

Class Name	examples.wlcs.sampleapp.customer.webflow. UpdateAccountInfoIP
Description	Processes the customer's input from the changepassword.jsp. Creates a CustomerValue object in the Pipeline session containing the new information.
Required HTTPServletRequest Parameters	HttpRequestConstants.PASSWORD HttpRequestConstants.NEW_PASSWORD HttpRequestConstants.CONFIRM_PASSWORD (code location: changepassword.jsp template.)
Required Pipeline Session properties	None
Updated Pipeline Session properties	PipelineSessionConstants.PASSWORD
Removed Pipeline Session properties	None
Validation	Validates the current password and verifies that the required fields contain values.
Exceptions	InvalidInputException, thrown when the current password is incorrect, when the required fields do not contain values, or if the new password and confirm password values do not match. ProcessingException, thrown in the case of a configuration error.

${\bf Update Basic InfolP}$

Class Name	<pre>examples.wlcs.sampleapp.customer.webflow. UpdateBasicInfoIP</pre>
Description	Processes the customer's input from the editprofile.jsp. Creates a CustomerValue object in the Pipeline session containing the new information.
Required	HttpRequestConstants.CUSTOMER_FIRST_NAME
HTTPServletRequest	<pre>HttpRequestConstants.CUSTOMER_MIDDLE_NAME</pre>
Parameters	<pre>HttpRequestConstants.CUSTOMER_LAST_NAME</pre>
	<pre>HttpRequestConstants.CUSTOMER_ADDRESS1</pre>
	<pre>HttpRequestConstants.CUSTOMER_ADDRESS2</pre>
	<pre>HttpRequestConstants.CUSTOMER_CITY</pre>
	<pre>HttpRequestConstants.CUSTOMER_STATE</pre>
	<pre>HttpRequestConstants.CUSTOMER_ZIPCODE</pre>
	<pre>HttpRequestConstants.CUSTOMER_COUNTRY</pre>
	<pre>HttpRequestConstants.CUSTOMER_HOME_PHONE</pre>
	<pre>HttpRequestConstants.CUSTOMER_BUSINESS_PHONE</pre>
	HttpRequestConstants.CUSTOMER_EMAIL
	<pre>HttpRequestConstants.CUSTOMER_EMAIL_OPT_IN</pre>
	(code location: editprofile.jsp template.)
Required Pipeline Session properties	PipelineSessionConstants.USER_NAME
Updated Pipeline Session properties	PipelineSessionConstants.CUSTOMER
Removed Pipeline Session properties	None
Validation	Verifies that the required fields contain values.
Exceptions	InvalidInputException, thrown if the required fields do not contain values.
	$\label{processingException} \begin{tabular}{l} {\tt ProcessingException}, thrown if the customer id in the pipeline session is invalid. \end{tabular}$

${\bf Update Demographic Infol P}$

Class Name	examples.wlcs.sampleapp.customer.webflow.
	UpdateDemographicInfoIP
Description	Processes the customer's input from the
	editdemographics.jsp. Creates a CustomerValue object in
	the Pipeline session containing the new information.
Required	HttpRequestConstants.CUSTOMER_GENDER
HTTPServletRequest	<pre>HttpRequestConstants.CUSTOMER_DATE_OF_BIRTH</pre>
Parameters	<pre>HttpRequestConstants.CUSTOMER_OCCUPATION</pre>
	<pre>HttpRequestConstants.CUSTOMER_EMPLOYMENT_STATUS</pre>
	<pre>HttpRequestConstants.CUSTOMER_MARITAL_STATUS</pre>
	<pre>HttpRequestConstants.CUSTOMER_EDUCATION_LEVEL</pre>
	<pre>HttpRequestConstants.CUSTOMER_INCOME_RANGE</pre>
	<pre>HttpRequestConstants.CUSTOMER_QUALITY</pre>
	HttpRequestConstants.HANDINESS
	(code location: newdemographictemplate.inc template.)
Required Pipeline Session properties	PipelineSessionConstants.USER_NAME
Updated Pipeline	PipelineSessionConstants.CUSTOMER
Session properties	PipelineSessionConstants.CREDITCARD_KEY
Removed Pipeline Session properties	None
Validation	Verifies that the status of invalidFieldisPresent is not true.
Exceptions	InvalidInputException, thrown if invalidFieldisPresent is true.
	InvalidSessionStateException, thrown when the session is unavailable or has expired.
	ProcessingException, thrown if the customer ID in the Pipeline session is invalid.

UpdatePaymentInfoIP

Class Name	examples.wlcs.sampleapp.customer.webflow. UpdatePaymentInfoIP
Description	Processes the customer's input from profilenewcc.jsp and profileeditcc.jsp. Creates a CustomerValue object in the Pipeline session containing the new information.
Required HTTPServletRequest	<pre>HttpRequestConstants.CREDITCARD_KEY (code location: profileedit.jsp template.)</pre>
Parameters	HttpRequestConstants.CUSTOMER_CREDITCARD_TYPE HttpRequestConstants.CUSTOMER_CREDITCARD_HOLDER HttpRequestConstants.CUSTOMER_CREDITCARD_NUMBER HttpRequestConstants. CUSTOMER_CREDITCARD_DISPLAY_NUMBER HttpRequestConstants.CUSTOMER_CREDITCARD_MONTH HttpRequestConstants.CUSTOMER_CREDITCARD_YEAR HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS1 HttpRequestConstants.CUSTOMER_CREDITCARD_ADDRESS2 HttpRequestConstants.CUSTOMER_CREDITCARD_CITY HttpRequestConstants.CUSTOMER_CREDITCARD_STATE HttpRequestConstants.CUSTOMER_CREDITCARD_ZIPCODE HttpRequestConstants.CUSTOMER_CREDITCARD_ZIPCODE HttpRequestConstants.CUSTOMER_CREDITCARD_COUNTRY (code location: editcctemplate.inc template.)
Required Pipeline Session properties	PipelineSessionConstants.USER_NAME
Updated Pipeline Session properties	PipelineSessionConstants.CUSTOMER PipelineSessionConstants.CREDITCARD_KEY
Removed Pipeline Session properties	None
Validation	Verifies that the required fields contain values, and verifies that the length of the credit card number is not less than 16 digits (15 digits for AMEX).

Exceptions	InvalidInputException, thrown if the required fields do not contain values or the credit card number is less than the minimum required for the type.
	InvalidSessionStateException, thrown if the session is unavailable or has expired.

UpdateShippingInfoIP

Class Name	examples.wlcs.sampleapp.customer.webflow. UpdateShippingInfoIP
Description	Processes the customer's input from the profileeditaddress.jsp. Creates a CustomerValue object in the Pipeline session containing the new information.
Required HTTPServletRequest Parameters	HttpRequestConstants.CUSTOMER_SHIPPING_ADDRESS1 HttpRequestConstants.CUSTOMER_SHIPPING_ADDRESS2 HttpRequestConstants.CUSTOMER_SHIPPING_CITY HttpRequestConstants.CUSTOMER_SHIPPING_STATE HttpRequestConstants.CUSTOMER_SHIPPING_ZIPCODE HttpRequestConstants.CUSTOMER_SHIPPING_COUNTRY (code location: editaddresstemplate.inc template.)
Required Pipeline Session properties	PipelineSessionConstants.USER_NAME
Updated Pipeline Session properties	PipelineSessionConstants.CUSTOMER
Removed Pipeline Session properties	None
Validation	Verifies that the required fields contain values.
Exceptions	InvalidInputException, thrown when the required fields do not contain values. InvalidSessionStateException, thrown if the session is unavailable or is expired.

Pipeline Components

This section provides a brief description of each Pipeline component associated with the Customer Profile Services JSP template(s).

Note: Some Pipeline Components extend other, base Pipeline Components. For more information on the base classes, see the *Javadoc*.

UpdateBasicInfoPC

Class Name	examples.wlcs.sampleapp.customer.pipeline. UpdateBasicInfoPC
Description	Updates the Customer object for changes made by UpdateBasicInfoIP. This Pipeline component must stay in sync with the UpdateBasicInfoIP Input Processor.
Contained in	EditBasicInfo Pipeline
Required Pipeline Session properties	None
Updated Pipeline Session properties	None
Removed Pipeline Session properties	None
Туре	Java class
JNDI Name	None
Exceptions	PipelineException, thrown when the Pipeline component is not able to set the customer's properties.

${\bf Update Demographic InfoPC}$

Class Name	examples.wlcs.sampleapp.customer.pipeline. UpdateBasicInfoPC
Description	Updates the Customer object for changes made by UpdateDemographicInfoIP. This Pipeline component must stay in sync with the UpdateBasicDemographicIP Input Processor.
Contained in	EditDemographicInfo Pipeline
Required Pipeline Session properties	None
Updated Pipeline Session properties	None
Removed Pipeline Session properties	None
Туре	Java class
JNDI Name	None
Exceptions	PipelineException, thrown when the Pipeline component is not able to set the customer's properties.

${\bf Update Password PC}$

Class Name	examples.wlcs.sampleapp.customer.pipeline. UpdatePasswordPC
Description	Retrieves the USER_NAME and PASSWORD from the Pipeline session and updates the password for the user.
Contained in	UpdateAccountProfile Pipeline
Required Pipeline Session properties	PipelineSessionConstants.USER_NAME PipelineSessionConstants.PASSWORD
Updated Pipeline Session properties	None
Removed Pipeline Session properties	PipelineSessionConstants.PASSWORD
Туре	Java class
JNDI Name	None
Exceptions	PipelineException, thrown when the Pipeline component is not able to set the customer's properties.

${\bf Update Payment Info PC}$

Class Name	examples.wlcs.sampleapp.customer.pipeline. UpdatePaymentInfoPC
Description	Updates the Customer object for changes made by UpdatePaymentInfoIP. This Pipeline component must stay in sync with the the UpdatePaymentInfoIP Input Processor.
Contained in	DeleteCreditCard, NewCreditCard, NewCreditCardForPayment, UpdateCreditCard, and UpdateCreditCardForPayment Pipelines
Required Pipeline Session properties	None
Updated Pipeline Session properties	None
Removed Pipeline Session properties	None
Туре	Java class
JNDI Name	None
Exceptions	PipelineException, thrown when the Pipeline component is not able to set the customer's properties.

${\bf Update Shipping InfoPC}$

Class Name	examples.wlcs.sampleapp.customer.pipeline. UpdateShippingInfoPC
Description	Updates the Customer object for changes made by UpdateShippingInfoIP. This Pipeline component must stay in sync with the UpdateShippingInfoIP Input Processor.
Contained in	ProfileNewAddress, ProfileEditAddress, and DeleteShippingAddressFromProfile Pipelines
Required Pipeline Session properties	None
Updated Pipeline Session properties	None
Removed Pipeline Session properties	None
Туре	Java class
JNDI Name	None
Exceptions	PipelineException, thrown when the Pipeline component is not able to set the customer's properties.

4 Customer Self-Service

Customers who make purchases from an e-commerce site often want access to their order and payment history. In many cases, customers expect to have this information available. To meet this need, the Registering Customers and Managing Customer services provide you with a series of JSPs designed specifically for this purpose. The customer self-service pages allow registered customers who have previously placed orders with your e-business to locate information about their past orders and payments, and to check on the status of these orders. The customer self-service pages can help you maintain a high level of service for all your customers by giving them the information they require. This topic describes each of the customer self-service pages in detail.

This topic includes the following sections:

- JavaServer Pages (JSPs)
 - orderhistory.jsp Template
 - orderstatus.jsp Template
 - paymenthistory.jsp Template
- Input Processors
 - SelectOrderForViewingIP
- Pipeline Components
 - RefreshOrderHistoryPC
 - RefreshPaymentHistoryPC

JavaServer Pages (JSPs)

Like the other services available in the Registering Customers and Managing Customer services, customer self-service is implemented through a number of JavaServer Pages (JSPs). You can use these JSPs as an out-of-the-box solution or customize them to meet your unique business requirements. This section describes each of the customer self-service pages in detail.

Note: For a description of the complete set of JSPs used in the Commerce services Web application and a listing of their locations in the directory structure, see the "Template Summary" documentation.

A customer must be logged into your e-commerce site for the customer self-service options to be available. The customer self-service options appear in the left column created by the leftside.inc template. Figure 4-1 shows the main.jsp template (the home page for the product catalog) with the options available. For more information about the main.jsp template, see "The Product Catalog JSP Templates" in the *Guide to Building a Product Catalog*.

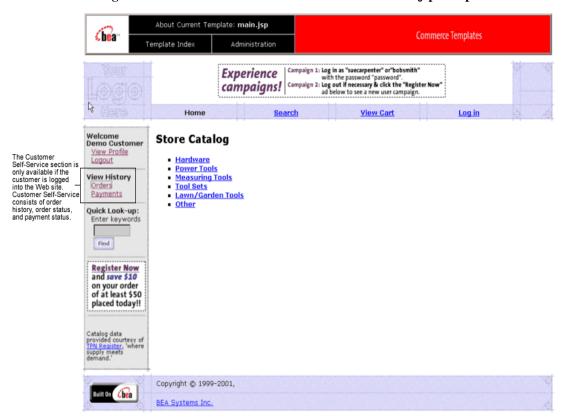


Figure 4-1 The Customer Self-Service Section on main.jsp Template

orderhistory.jsp Template

The orderhistory.jsp template (shown in Figure 4-2) displays a list of order summaries (including order date, order number, and order amount) for each of the customer's orders. It also provides the customer with a View button for each order in the list, which allows the customer to view details about the order, including its status.

Sample Browser View

Figure 4-2 shows an annotated version of the orderhistory. jsp template. The black lines and callout text are not part of the template; they are explanations of the template components.

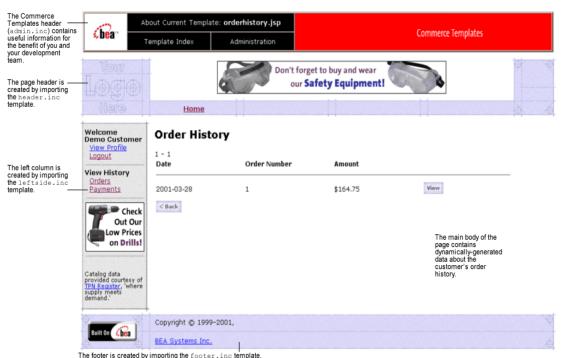


Figure 4-2 Annotated orderhistory.jsp Template

4-4 Guide to Registering Customers and Managing Customer Services

Location in the Directory Structure

You can find the orderhistory. jsp template file at the following location, where \$PORTAL_HOME is the directory in which you installed Commerce services:

```
%PORTAL_HOME\applications\wlcsApp\wlcs\
commerce\order\orderhistory.jsp (Windows)

$PORTAL_HOME/applications/wlcsApp/wlcs/
commerce/order/orderhistory.jsp (UNIX)
```

Tag Library Imports

The orderhistory. jsp template uses WebLogic and Pipeline JSP tags. Therefore, the template includes the following JSP tag libraries:

```
<%@ taglib uri="weblogic.tld" prefix="wl" %>
<%@ taglib uri="webflow.tld" prefix="webflow" %>
<%@ taglib uri="eb.tld" prefix="eb" %>
<%@ taglib uri="il8n.tld" prefix="il8n" %>
```

Note: For more information about the Pipeline JSP tags, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline*. For more information on the Commerce services JSP tags, see "JSP Tag References" in the Campaign and Commerce services documentation.

These files reside in the following directory for the Commerce services Web application:

```
PORTAL_HOME\applications\wlcsApp\wlcs\
WEB-INF (Windows)

PORTAL_HOME/applications/wlcsApp/wlcs/
WEB-INF (UNIX)
```

Java Package Imports

The orderhistory. jsp template uses Java classes in the following packages and therefore includes these import statements:

```
<%@ page import="java.util.*" %>
<%@ page import="java.text.*" %>
<%@ page import="com.beasys.commerce.axiom.units.*" %>
```

```
<%@ page import="com.beasys.commerce.ebusiness.shipping.*" %>
<%@ page import="com.beasys.commerce.ebusiness.order.*" %>
<%@ page import="com.beasys.commerce.ebusiness.customer.*" %>
<%@ page import="com.beasys.commerce.ebusiness.util.*" %>
<%@ page import="com.beasys.commerce.webflow.HttpRequestConstants" %>
<%@ page import="com.beasys.commerce.webflow.PipelineSessionConstants" %>
<%@ page import="com.beasys.commerce.webflow.WebflowJSPHelper" %>
```

Location in Default Webflow

Customers arrive at the orderhistory.jsp template from the product catalog home page (main.jsp). From here, customers can return back to the product catalog home page, or display the details of a specific order by selecting it (orderstatus.jsp).

This template is part of the sampleapp_user namespace in the Webflow.

Note: For more information about the default Webflow, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline.*

Included JSP Templates

The following include templates are included in the orderhistory.jsp template:

- admin.inc, which shows the name of the current template and contains links to its *About* information, the JSP Template Index, and the Administration Tools. The admin.inc template should be removed from the production pages before they are moved to your live server.
- header.inc, which creates the page header. It is standard across many of the JSP templates provided by Commerce services. The import call is:

 /**@ include file="/commerce/includes/header.inc" *>
- leftside.inc, which creates the left column and secondary placeholder for advertising. It is standard across many of the JSP templates provided by Commerce services. The import call is:

```
<%@ include file="/commerce/includes/leftside.inc" %>
```

Events

Every time a customer clicks a button to view more detail about an order, it is considered an event. Each event triggers a particular response in the default Webflow that allows them to continue. While this response can be to load another JSP, it is usually the case that an Input Processor and/or Pipeline is invoked first. Table 4-1 provides information about these events and the business logic they invoke.

Table 4-1 orderhistory.jsp Events

Event	Webflow Response(s)
	RefreshOrderHistory Pipeline
button.viewOrderStatus	SelectOrderForViewingIP

Table 4-2 briefly describes each of the Pipelines from Table 4-1. For more information about individual Pipeline Components, see "Pipeline Components" on page 4-26.

Table 4-2 orderhistory.jsp Associated Pipelines

Pipeline	Description
RefreshOrderHistory	Contains RefreshOrderHistoryPC and is not transactional.

Note: Although the RefreshOrderHistory Pipeline is associated with the orderhistory. jsp template, it is not triggered by an event on the page. Rather, the RefreshOrderHistory Pipeline is executed before the orderhistory. jsp is viewed, to locate the orders associated with the customer requesting the information.

Dynamic Data Display

One purpose of the orderhistory. jsp template is to display the data specific to a customer's orders for their review and possible selection. This is accomplished on orderhistory. jsp using a combination of WebLogic Server JSP tags, Pipeline JSP tags, and attributes/methods.

First, the getProperty JSP tag retrieves the SCROLLABLE_MODEL attribute from the Pipeline session. Table 4-3 provides more detailed information on this attribute.

Table 4-3 orderhistory.jsp Pipeline Session Properties

Attribute	Туре	Description
PipelineSessionConstant. SCROLLABLE_MODEL	com.beasys.commerce. ebusiness.util. ScrollableModel	List of the orders available for the customer.

Listing 4-1 illustrates how this attribute is retrieved from the Pipeline session using the getProperty JSP tag.

Listing 4-1 Retrieving the Order History Attribute

```
<webflow:getProperty id="orderHistory"
property="<%=PipelineSessionConstants.SCROLLABLE_MODEL%>"
type="com.beasys.commerce.ebusiness.util.ScrollableModel"
scope="session" namespace="sampleapp_main" />
```

Note: For more information on the getProperty JSP tag, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline*.

The data stored within the Pipeline session attribute is then accessed by using accessor methods/attributes within Java scriptlets. Table 4-4 provides more detailed information about these methods/attributes for OrderValue.

Table 4-4 OrderValue Accessor Methods/Attributes

Method/Attribute	Description
createdDate()	The date the customer's order was created.
identifier()	Key in the database for the order.
getValue()	The total price of that order. The price attribute is a money object.

Listing 4-2 illustrates how these accessor methods/attributes are used within Java scriptlets along with the WebLogic Server JSP tags to display the information.

Listing 4-2 Using Accessor Methods/Attributes Within orderhistory.jsp Java Scriptlets

```
<wl:repeat set="<%=currentPage%>" id="orderValue" type="OrderValue" count="100">
 <div class="tabletext"><%= orderValue.createdDate %></div>
   <div class="tabletext"><%= orderValue.identifier %></div>
   <div class="tabletext"><% Money total = orderValue.price; %>
     <i18n:getMessage bundleName="/commerce/currency" messageName="<%=</pre>
       total.getCurrency() %>"/> <%=</pre>
       WebflowJSPHelper.priceFormat(total.getValue()) %>
   </wl>
```

Note: For more information on the WebLogic Commerce Server JSP tags, see "JSP Tag References" in the Campaign and Commerce services documentation.

Form Field Specification

No form fields are used in the orderhistory. jsp template.

orderstatus.jsp Template

The orderstatus.jsp template (shown in Figure 4-3) displays a variety of information for the order summary the customer selected from the list presented on the orderhistory.jsp template. This order information includes the order confirmation number, the order status, the date the order was placed, splitting instructions, special instructions, the shipping address, information related to the specific shopping cart items (name, description, quantity, unit price), and total amounts (shipping and handling, tax, and total order cost).

Sample Browser View

Figure 4-3 shows an annotated version of the orderstatus.jsp template. The black lines and callout text are not part of the template, but explanations of the components.

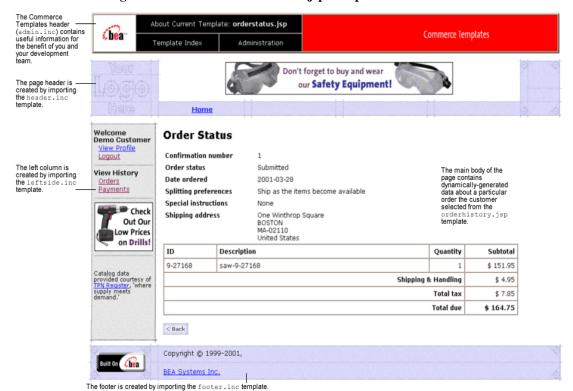


Figure 4-3 Annotated orderstatus.jsp Template

Location in Commerce services Directory Structure

You can find the orderstatus. jsp template file at the following location, where \$PORTAL_HOME is the directory in which you installed Commerce services:

```
%PORTAL_HOME\applications\wlcsApp\wlcs\
commerce\order\orderstatus.jsp (Windows)

$PORTAL_HOME/applications/wlcsApp/wlcs/
commerce/order/orderstatus.jsp (UNIX)
```

Tag Library Imports

The orderstatus.jsp template uses WebLogic and Pipeline JSP tags. Therefore, the template includes the following JSP tag libraries:

```
<%@ taglib uri="weblogic.tld" prefix="wl" %>
<%@ taglib uri="webflow.tld" prefix="webflow" %>
<%@ taglib uri="il8n.tld" prefix="il8n" %>
```

Note: For more information on the WebLogic Commerce Server JSP tags, see "JSP Tag References" in the Campaign and Commerce services documentation. For more information about the Pipeline JSP tags, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline*.

These files reside in the following directory for the Commerce services Web application:

```
PORTAL_HOME\applications\wlcsApp\wlcs\WEB-INF (Windows)

PORTAL_HOME/applications/wlcsApp/wlcs/WEB-INF (UNIX)
```

Java Package Imports

The orderstatus.jsp template uses Java classes in the following packages and therefore includes these import statements:

```
<%@ page import="java.util.*" %>
<%@ page import="java.text.*" %>
<%@ page import="com.beasys.commerce.axiom.units.*" %>
<%@ page import="com.beasys.commerce.axiom.contact.*" %>
<%@ page import="com.beasys.commerce.ebusiness.order.*" %>
<%@ page import="com.beasys.commerce.ebusiness.payment.*" %>
<%@ page import="com.beasys.commerce.ebusiness.customer.*" %>
<%@ page import="com.beasys.commerce.ebusiness.customer.*" %>
<%@ page import="com.beasys.commerce.webflow.HttpRequestConstants" %>
<%@ page import="com.beasys.commerce.webflow.PipelineSessionConstants" %>
<%@ page import="com.beasys.commerce.webflow.PipelineSessionConstants" %>
<%@ page import="com.beasys.commerce.webflow.WebflowJSPHelper" %>
```

Location in Default Web Flow

Customers arrive at the orderstatus.jsp template from the page that displays summaries of their past orders (orderhistory.jsp). The default Webflow does not define a subsequent JSP template.

This template is part of the sampleapp_user namespace in the Webflow.

Note: For more information about the default Webflow, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline.*

Included JSP Templates

The following JSP templates are included in the orderstatus.jsp template:

- admin.inc, which shows the name of the current template and contains links to its *About* information, the JSP Template Index, and the Administration Tools.
 The admin.inc template should be removed from the production pages before they are moved to your live server.
- stylesheet.inc, which is a cascading stylesheet that defines global paragraph and text styles for the site. The import call is:

```
<%@ include file="/commerce/includes/stylesheet.inc" %>
```

- header.inc, which creates the page header. It is standard across many of the JSP templates provided by Commerce services. The import call is: <@ include file="/commerce/includes/header.inc" %>
- leftside.inc, which creates the left column and secondary placeholder for advertising. It is standard across many of the JSP templates provided by Commerce services. The import call is:

```
<%@ include file="/commerce/includes/leftside.inc" %>
```

Events

There are no events on the orderstatus. jsp template.

Dynamic Data Display

The purpose of the orderstatus.jsp template is to display the data specific to a customer's order for their review. The dynamic content on orderstatus.jsp is obtained using a combination of WebLogic Server JSP tags, Pipeline JSP tags, and accessor methods/attributes.

First, the getProperty JSP tag retrieves the SELECTED_ORDER attribute from the Pipeline session. Table 4-5 provides more detailed information on this attribute.

Table 4-5 orderstatus.jsp Pipeline Session Properties

Attribute	Туре	Description
PipelineSessionConstant. SELECTED_ORDER	com.beasys.commerce. ebusiness.order.OrderValue	Contains information about the order selected by the customer.

Listing 4-3 illustrates how this attribute is retrieved from the Pipeline session using the getProperty JSP tag.

Listing 4-3 Retrieving the Selected Order Attribute

```
<webflow:getProperty id="orderValue"
property="<%=PipelineSessionConstants.SELECTED_ORDER%>"
type="com.beasys.commerce.ebusiness.order.OrderValue"
scope="session" namespace="sampleapp_main" />
```

Note: For more information on the getProperty JSP tag, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline.*

The data stored within the Pipeline session attribute is then accessed by using accessor methods/attributes within Java scriptlets. Table 4-6 provides more detailed information about these methods/attributes for OrderValue.

Table 4-6 OrderValue Accessor Methods/Attributes

Method/Attribute	Description	
createdDate()	The date the customer's order was created.	
identifier()	Key in the database for the order; the order confirmation number.	
orderStatus()	The status of the order.	
splittingPreference()	The splitting preference for the order.	
specialInstructions()	Any special instructions for the order.	
shippingAddress()	The shipping address for the order.	
orderLines()	A collection of the lines in the shopping cart that make up the customer's order.	
getTotal()	In this instance, the total tax specified by the OrderConstants.LINE_TAX parameter.	
	Note: The getTotal() method also allows you to combine different total types. For more information, see the <i>Javadoc</i> .	
adjustmentPresentations()	Returns a list of adjustments or discounts applied to the overall order in the form of (OrderAdjustmentPresentation). See Table 4-7 for more information.	

Table 4-7 provides more detailed information about the methods/attributes for OrderAdjustPresentation.

Table 4-7 OrderAdjustmentPresentation Accessor Methods

Method/Attribute	Description
getReason()	Describes why the discount applies to the customer.
getComputation()	The formula used to compute the discount.

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Table 4-7 OrderAdjustmentPresentation Accessor Methods

Method/Attribute	Description
getDiscount()	This is the actual dollar amount of the discount.
<pre>getAdjustmentType()</pre>	Describes how the price adjustment is applied. For example, a discount is subtracted from the total price of the objects ordered, but a shipping tax is calculated from and added to the shipping price.

Table 4-8 describes the accessor methods/attributes available within the shippingAddress attribute of OrderValue.

Table 4-8 shippingAddress Accessor Methods

Method/Attribute	Description
getStreet1()	The first line of the customer's street address.
getStreet2()	The second line of the customer's street address.
getCity()	The city in the customer's address.
getState()	The state in the customer's address.
getPostalCode()	The zip/postal code in the customer's address.
getCountry()	The country in the customer's address.

Table 4-9 describes the accessor methods/attributes available for each OrderLine of the OrderLines attribute.

Table 4-9 OrderLine Accessor Methods

Method/Attribute	Description
<pre>getProductIdentifier()</pre>	The name (identifier) for the shopping cart item.
getDescription()	A description of the shopping cart item.
getQuantity()	The quantity of the shopping cart item.
getUnitPrice()	The unit price for the shopping cart item.

Table 4-9 OrderLine Accessor Methods

Method/Attribute	Description
<pre>getAdjustmentPresentations()</pre>	Returns a list of order presentation objects. See Table 4-7 for more information.

Listing 4-4 illustrates how these accessor methods/attributes are used within Java scriptlets along with the WebLogic Server JSP tags to display the information.

Listing 4-4 Using Accessor Methods/Attributes Within orderstatus.jsp Java Scriptlets

```
<div class="tabletext"><b>Confirmation number</b></div>
 <div class="tabletext"><%=orderValue.identifier%></div>
<div class="tabletext"><b>Shipping address</b></div>
 <div class="tabletext"><%=orderValue.shippingAddress.getStreet1()%>
   </div>
     <% if(orderValue.shippingAddress.getStreet2().length() != 0) { %>
   <div class="tabletext"><%=orderValue.shippingAddress.getStreet2()%>
   </div>
   <% } %>
   <div class="tabletext"><%=orderValue.shippingAddress.getCity()%></div>
   <div class="tabletext"><%String stateZip =</pre>
     orderValue.shippingAddress.getState()+ "-" +
     orderValue.shippingAddress.getPostalCode();%>
   </div>
   <div class="tabletext"><%=stateZip%>
   </div>
   <div class="tabletext"><%=orderValue.shippingAddress.getCountry()%>
   </div>
```

```
<wl:repeat set="<%=orderValue.orderLines.iterator()%>" id="orderLine"
type="OrderLine" count="100">
 <div class="tabletext"><%= orderLine.getProductIdentifier() %></div>
 <div class="tabletext"><%= orderLine.getDescription() %></div>
 <div class="tabletext"><%= quantityFormat.format( orderLine.getQuantity()) %>
   </div>
 // Calculate the line subtotal without discounts
   double orderLineTotal = (orderLine.getQuantity() *
   orderLine.getUnitPrice().getValue());
   <div class="tabletext">
   <i18n:getMessage bundleName="/commerce/currency" messageName="<%=</pre>
     orderLine.getUnitPrice().getCurrency() %>"/> <%=
     WebflowJSPHelper.priceFormat( orderLineTotal ) %>
   </div>
 </wl:repeat>
```

Note: For more information on the WebLogic Commerce Server JSP tags, see the "JSP Tag References" in the Campaign and Commerce services documentation.

Form Field Specification

No form fields are used in the orderstatus.jsp template.

paymenthistory.jsp Template

The paymenthistory.jsp template (shown in Figure 4-4) allows the customer to view information regarding the payments that have been made. This information includes the date, the payment transaction ID, the credit card used, and the amount that was billed to the credit card.

Sample Browser View

Figure 4-4 shows an annotated version of the paymenthistory. jsp template. The black lines and callout text are not part of the template; they are explanations of the template components.



Figure 4-4 Annotated paymenthistory.jsp Template

Location in the Directory Structure

You can find the paymenthistory. jsp template file at the following location, where \$PORTAL_HOME is the directory in which you installed Commerce services:

```
%PORTAL_HOME\applications\wlcsApp\wlcs\
commerce\order\paymenthistory.jsp (Windows)

$PORTAL_HOME/applications/wlcsApp/wlcs/
commerce/order/paymenthistory.jsp (UNIX)
```

Tag Library Imports

The paymenthistory. jsp template uses WebLogic and Pipeline JSP tags. Therefore, the template includes the following JSP tag libraries:

```
<%@ taglib uri="weblogic.tld" prefix="wl" %>
<%@ taglib uri="webflow.tld" prefix="webflow" %>
<%@ taglib uri="il8n.tld" prefix="il8n" %>
```

Note: For more information on the WebLogic Commerce Server JSP tags, see "JSP Tag References" in the Campaign and Commerce services documentation. For more information about the Pipeline JSP tags, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline*.

These files reside in the following directory for the Commerce services Web application:

```
PORTAL_HOME\applications\wlcsApp\wlcs\WEB-INF (Windows)

PORTAL_HOME/applications/wlcsApp/wlcs/WEB-INF (UNIX)
```

Java Package Imports

The paymenthistory. jsp template uses Java classes in the following packages and therefore includes these import statements:

```
<%@ page import="java.util.*" %>
<%@ page import="java.text.*" %>
<%@ page import="com.beasys.commerce.ebusiness.payment.*" %>
<%@ page import="com.beasys.commerce.webflow.HttpRequestConstants" %>
<%@ page import="com.beasys.commerce.webflow.PipelineSessionConstants" %>
<%@ page import="com.beasys.commerce.webflow.WebflowJSPHelper" %>
```

Location in Default Webflow

Customers arrive at paymenthistory.jsp from the product catalog home page (main.jsp). The default Webflow does not define a subsequent JSP template.

This template is part of the sampleapp_user namespace in the Webflow.

Note: For more information about the default Webflow, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline.*

Included JSP Templates

The following JSP templates are included in the paymenthistory.jsp template:

- admin.inc, which shows the name of the current template and contains links to its *About* information, the JSP Template Index, and the Administration Tools. The admin.inc template should be removed from the production pages before they are moved to your live server.
- header.inc, which creates the page header. It is standard across many of the JSP templates provided by Commerce services. The import call is: <@ include file="/commerce/includes/header.inc" %>
- leftside.inc, which creates the left column and secondary placeholder for advertising. It is standard across many of the JSP templates provided by Commerce services. The import call is:

```
<%@ include file="/commerce/includes/leftside.inc" %>
```

Events

There are no events on the paymenthistory. jsp template that trigger Input Processors or Pipelines in the Webflow. Table 4-10 briefly describes each of the Pipelines associated with the paymenthistory. jsp template. For more information about individual Pipeline Components, see "Pipeline Components" on page 4-26.

Table 4-10 paymenthistory.jsp Associated Pipelines

Pipeline	Description
RefreshPaymentHistory	Contains RefreshPaymentHistoryPC and is not transactional.

Note: Although the RefreshPaymentHistory Pipeline is associated with the paymenthistory.jsp template, it is not triggered by an event on the page. Rather, the RefreshPaymentHistory Pipeline is executed before the paymenthistory.jsp is viewed, to locate the payments associated with the customer requesting the information.

Dynamic Data Display

The purpose of the paymenthistory.jsp template is to display the data specific to a customer's payments for their review. This is accomplished on paymenthistory.jsp using a combination of WebLogic Server JSP tags, Pipeline JSP tags, and accessor methods/attributes.

First, the getProperty JSP tag retrieves the PAYMENT_HISTORY attribute from the Pipeline session. Table 4-11 provides more detailed information on this attribute.

Table 4-11 paymenthistory.jsp Pipeline Session Properties

Attribute	Туре	Description
PipelineSessionConstant. PAYMENT_HISTORY	List of com.beasys.commerce. ebusiness.payment. PaymentTransactionValue	List of the payments available for the customer.

Listing 4-5 illustrates how this attribute is retrieved from the Pipeline session using the getProperty JSP tag.

Listing 4-5 Retrieving the Payment History Attribute

<webflow:getProperty id="paymentHistory"
property="<%=PipelineSessionConstants.PAYMENT_HISTORY%>" type="java.util.List"
scope="request" namespace="sampleapp_main" />

Note: For more information on the getProperty JSP tag, see the *Guide to Managing Presentation and Business Logic: Using Webflow and Pipeline*.

The data stored within the Pipeline session attribute is then accessed by using accessor methods/attributes within Java scriptlets. Table 4-12 provides more detailed information about these methods/attributes for PaymentTransactionValue.

Table 4-12 PaymentTransactionValue Accessor Methods/Attributes

Method/Attribute	Description
transactionDate()	The date of the payment transaction.
transactionId()	Key in the database for the transaction; the payment confirmation number.
creditCard()	The status of the order.
transactionAmount()	The splitting preference for the order.

The creditCard and transactionAmount attributes also have accessor methods/attributes, as shown in Table 4-13 and Table 4-14.

Table 4-13 creditCard Accessor Methods/Attributes

Method/Attribute	Description
getDisplayNumber()	Obtains the displayable version of the credit card number (12 Xs and last 4 digits).

Table 4-14 transactionAmount Accessor Methods/Attributes

Method/Attribute	Description
getCurrency()	Obtains the currency associated with the transaction amount.
getValue()	Obtains the value of the transaction amount.

Listing 4-6 illustrates how these accessor methods/attributes are used within Java scriptlets along with the WebLogic Server JSP tags to display the information.

Listing 4-6 Using Accessor Methods/Attributes Within paymenthistory.jsp Java Scriptlets

```
<wl:repeat set="<%=paymentHistory%>" id="paymentTransactionValue"
type="PaymentTransactionValue" count="100">
 <!-- Get transactionDate from PaymentTransactionValue -->
       <div class="tabletext"><%= paymentTransactionValue.transactionDate %>
       </div>
   <!-- Get transactionId from PaymentTransactionValue -->
       <div class="tabletext"><%= paymentTransactionValue.transactionId %>
       </div>
   <!-- Get credit card display from PaymentTransactionValue -->
       <div class="tabletext"><%=</pre>
         paymentTransactionValue.creditCard.getDisplayNumber() %>
       </div>
   <!-- Get transactionAmount from PaymentTransactionValue -->
        <!-- The WebflowJSPHelper.priceFormat() converts a double to a String
        with two significant digits after the decimal-->
       <div class="tabletext"><i18n:getMessage bundleName="/commerce/currency"</pre>
      messageName="<%= paymentTransactionValue.transactionAmount.getCurrency()</pre>
       %>"/> <%=
```

Note: For more information on the WebLogic Commerce Server JSP tags, see "JSP Tag References" in the Campaign and Commerce services documentation.

Form Field Specification

No form fields are used in the paymenthistory.jsp template.

Input Processors

This section provides a brief description of each Input Processor associated with the Customer Self-Service JSP template(s).

SelectOrderForViewingIP

Class Name	examples.wlcs.sampleapp.order.webflow. SelectOrderForViewingIP
Description	Reads the order identifier and uses it to locate an OrderValue object from the ORDER_HISTORY attribute, then places the object in the Pipeline session.
Required	HttpRequestConstants.ORDER_IDENTIFIER
HTTPServletRequest	(code location: orderhistory.jsp template.)
Parameters	
Required Pipeline Session Properties	PipelineSessionConstants.ORDER_HISTORY
Updated Pipeline	PipelineSessionConstants.ORDER_ADJUSTMENT
Session Properties	PipelineSessionConstants.SELECTED_ORDER
Removed Pipeline Session Properties	None
Validation	None
Exceptions	ProcessingException, thrown when the order identifier is not found in the HTTP request.

Pipeline Components

This section provides a brief description of each Pipeline component associated with the Customer Self-Service JSP template(s).

Note: Some Pipeline Components extend other, base Pipeline Components. For more information on the base classes, see the *Javadoc*.

RefreshOrderHistoryPC

Class Name	examples.wlcs.sampleapp.order.pipeline. RefreshOrderHistoryPC
Description	Uses the USER_NAME Pipeline session attribute to obtain the customer's order history.
Contained in	RefreshOrderHistory Pipeline
Required Pipeline Session Properties	PipelineSessionConstants.USER_NAME
Updated Pipeline Session Properties	PipelineSessionConstants.ORDER_HISTORY
Removed Pipeline Session Properties	None
Туре	Java class
JNDI Name	None
Exceptions	PipelineException, thrown when required Pipeline session properties are not available, or if username does not exist in the Pipeline session.

Refresh Payment History PC

Class Name	examples.wlcs.sampleapp.order.pipeline. RefreshPaymentHistoryPC
Description	Uses the USER_NAME Pipeline session attribute to obtain the customer's payment history.
Contained in	RefreshPaymentHistory Pipeline
Required Pipeline Session Properties	PipelineSessionConstants.USER_NAME
Updated Pipeline Session Properties	PipelineSessionConstants.PAYMENT_HISTORY
Removed Pipeline Session Properties	None
Туре	Java class
JNDI Name	None
Exceptions	PipelineException, thrown when required Pipeline session properties are not available, or if the username does not exist in the Pipeline session.

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