

Data Protection Guide
Oracle Banking Digital Experience Cloud Service
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Data Protection Guide

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1. Preface

1.1 Purpose

Welcome to the User Guide for Oracle Banking Digital Experience. This guide explains the operations that the user will follow while using the application.

1.2 Audience

This manual is intended for Customers and Partners who setup and use Oracle Banking Digital Experience.

1.3 Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit, <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

1.4 Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

1.5 Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>Italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

1.6 **Screenshot Disclaimer**

The images of screens used in this user manual are for illustrative purpose only, to provide improved understanding of the functionality; actual screens that appear in the application may vary based on selected browser, theme, and mobile devices.

1.7 **Acronyms and Abbreviations**

The list of the acronyms and abbreviations that you are likely to find in the manual are as follows:

Abbreviation	Description
OBDX	Oracle Banking Digital Experience

2. Objective and Scope

2.1 Background

OBDX is designed to help banks respond strategically to today's business challenges, while also transforming their business models and processes to reduce operating costs and improve productivity across both front and back offices. It is a one-stop solution for a bank that seeks to leverage Oracle Fusion experience across its core banking operations across its retail and corporate offerings.

OBDX provides a unified yet scalable IT solution for a bank to manage its data and end-to-end business operations with an enriched user experience. It comprises pre-integrated enterprise applications leveraging and relying on the underlying Oracle Technology Stack to help reduce in-house integration and testing efforts.

In order to provide these services OBDX needs to acquire, use or store personally identifiable information (PII). In some cases, OBDX may be owner of the PII data and in some other cases OBDX might just acquire and use this data for providing required services to the customer.

2.2 Objective

By the very nature of PII data, it is necessary for the Bank to be aware of the information being acquired or used or stored by OBDX. This knowledge will enable the Bank to take necessary measures and put apt policies and procedures in place to deal with PII data. In some of the geographies Bank might need to comply with local laws and regulations for dealing with PII data. This document attempts to provide necessary information so as to enable the Bank to do so.

2.3 Scope

This document is intended for technical staff of the Bank as well as administration users of the Bank and provides information about following aspects of the PII data.

- Identifies what PII data is acquired, used or stored in OBDX
- Process to extract PII data from OBDX
- Process to purge and delete the PII data from OBDX

Out of scope

This document does not intend to suggest that OBDX is out of box compliant with any local laws and regulations related to data protection. The purpose of this document is to provide information about PII data dealt with in the system so that the Bank can put in place appropriate processes to comply with laws and regulations of the land.

3. Personally Identifiable Information (PII)

Personally identifiable information (PII) is any data that could potentially identify a specific individual. Any information that can be used to distinguish one person from another and can be used to de-anonymizing anonymous data can be considered PII.

OBDX needs to acquire, use or store some PII data of the customers of the Bank in order to perform its desired services. This section declares the PII data captured by OBDX so that the Bank is aware of the same and adopts necessary operational procedures and checks in order to protect PII data in the best interest of its customers.

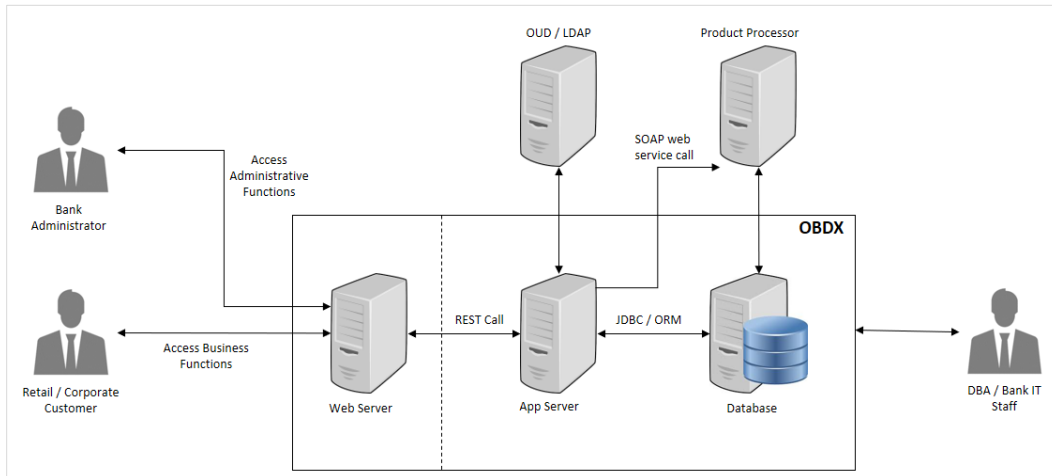
Fields	OBDX 22.2
Bank account information	Yes
Beneficiaries	Yes
Biometric records	No
Birthplace	No
Bonus	No
Country, state, or city of residence	Yes
Credit card numbers	No
Criminal record	No
Date of birth	Yes
Digital identity	No
Disability leave	No
Driver's license number	Yes
Education history	No
Email address	Yes
Emergency contacts	No
Employee ID	Yes
Ethnicity	No
Financial information and accounts	Yes
Fingerprints	No

Fields	OBDX 22.2
Full name	Yes
Gender	Yes
Genetic information	No
Health information (including conditions, treatment, and payment)	No
Healthcare providers and plans	No
Personal/office telephone numbers	Yes
IP address	No
Job title	Yes
Login name	Yes
MAC address	Yes
Marital status	Yes
Military rank	No
Mother's maiden name	No
National identification number	Yes
Passport number	Yes
Performance evaluation	No
Personal phone number	Yes
Photographic images	No
PIN numbers	Yes
Political affiliations	No
Property title information	No
Religion	No
Salary	Yes
Screen name	No
Sexual life	No

Fields	OBDX 22.2
Social security number	Yes
Taxpayer information	Yes
Union membership	No
Vehicle registration number	Yes
Work telephone	Yes
Citizenship Number	No
Geo-Location	No
Product has Customer defined fields	No
Mobile Subscriber Identifier (IMSI)	No
Surname	Yes
First name	Yes

4. Flow of PII Data

This section depicts the flow 'personally identifiable information' (PII) within the OBDX system in the form of a data flow diagram.



The Bank Administrator is Bank's employee who is performing administrative functions using OBDX. As part of these, he will be dealing with PII data. An example is that the Administrator creates Retail and Corporate users in OBDX and while creating users he/she enters user information such as first name, last name, email address, mobile number, correspondence address etc.

Retail / Corporate Customer is Bank's customer who is accessing the online banking features. As part of this he/she will be able to see his/her accounts, balances, beneficiaries, transactions, profile details etc. Note that OBDX also supports onboarding of new users. The system captures some user information such as first name, last name, email address, mobile number, correspondence address and financial information such as income profile.

DBA / Bank IT Staff is Bank's employee who is not a user of OBDX but has access to the database that stores OBDX bank end data or the server environments on which OBDX is deployed.

Web server typically contains static web content such as styling information (CSS), Javascript resources, images, static HTMLs etc. Web server passes the REST service calls to Application server.

Application (App) Server is the server on which OBDX services are deployed. This server performs required processing on the service calls. It does use the database for retrieval or storage of data. It can also connect to external user credential store (such as OUD or Open LDAP). It can also connect to core product processor to enquiring CIF or Account related data or for posting any transactions initiated by the Retail or Corporate customer.

Database is the persistence store for OBDX. It can contain primary configuration data, user data and transactional data.

ODU / LDAP represents the external user credentials store. OBDX does not maintain user credentials locally but depends on external specialized software to do that. An example can be Oracle Unified Directory (ODU) or Open LDAP.

Product Processor is the core banking solution which actually processes actual banking transactions. OBDX connects to the product processor to fetch data such as CIFs or Accounts or transactions. It also connects to the product processor to post new transaction initiated by Retail or Corporate customer.

5. Administration of PII Data

This section provides information about doing administrative tasks on PII data. This includes retrieval, modification, deletion or purging of such data.

5.1 Extracting PII data

OBDX stores some PII data in its database and it also accesses data stored or owned by external systems such as OUD / LDAP or product processor.

5.1.1 Data stored in OBDX

This section provides information about the tables that store PII data. This information is useful for the Bank to extract PII information.

PII Data	Table
Bank account information	DIGX_AC_ACCOUNT_NICKNAME DIGX_AM_ACCOUNT_ACCESS DIGX_AM_ACCOUNT_EXCEPTION
Beneficiaries	DIGX_PY_PAYEE_V3 DIGX_PY_INTERNAL_PAYEE_V3 DIGX_PY_DEMANDDRAFT_PAYEE_V3 DIGX_PY_INTNATNL_PAYEE_BNKDTLS_V3 DIGX_PY_PEERTOPEER_PAYEE_V3 DIGX_PY_INTERNATIONAL_PAYEE_V3 DIGX_PY_GLOBAL_PAYEE DIGX_PY_DOMESTIC_PAYEE_V3
Country, state, or city of residence	DIGX_OR_APPLICANT, DIGX_OR_APPLICANT_ADDRESS DIGX_UM_USERPROFILE
Date of birth	DIGX_OR_APPLICANT DIGX_UM_USERPROFILE
Driver's license number	DIGX_OR_APLT_IDNT
Email address	DIGX_OR_APPLICANT_CONTACT DIGX_OR_EMAIL_VERIFICATION

PII Data	Table
	(used only for email verification, data is purged once email is verified) DIGX_UM_USERPROFILE
Email ID	DIGX_AP_TRANSACTION
Employee ID	DIGX_OR_APLT_EMPT
Financial information and accounts	Only financial information(Income, Asset, expense, Liability) DIGX_OR_APLT_FIN_INCM, DIGX_OR_APLT_FIN_AST, DIGX_OR_APLT_FIN_EXP, DIGX_OR_APLT_FIN_LIB
Full name	DIGX_OR_APPLICANT DIGX_UM_USERPROFILE DIGX_AP_TRANSACTION
Gender	DIGX_OR_APPLICANT
Personal/office numbers telephone	DIGX_OR_APPLICANT_CONTACT DIGX_UM_USERPROFILE DIGX_AP_TRANSACTION
Job title	DIGX_OR_APLT_EMPT DIGX_UM_USERPROFILE
Login name	DIGX_UM_USERAPPDATA DIGX_UM_USERPARTY_RELATION USERS GROUPMEMBERS DIGX_UM_USERPROFILE DIGX_AM_ACCOUNT_ACCESS
MAC Address	DIGX_AUDIT_LOGGING
Marital status	DIGX_OR_APPLICANT
National identification number	DIGX_OR_APLT_IDNT
Passport number	DIGX_OR_APLT_IDNT

PII Data	Table
Personal phone number	DIGX_OR_APPLICANT_CONTACT
PIN numbers	DIGX_OR_APPLICANT_ADDRESS
Salary	DIGX_OR_APLT_FIN_INCM, DIGX_OR_APLT_EMPTY
Social security number	DIGX_OR_APLT_IDNT
Taxpayer information	DIGX_OR_APLT_IDNT
Vehicle registration number	DIGX_OR_APLT_IDNT
Work telephone	DIGX_OR_APPLICANT_CONTACT
Surname	DIGX_OR_APPLICANT DIGX_UM_USERPROFILE DIGX_AP_TRANSACTION
First name	DIGX_OR_APPLICANT DIGX_UM_USERPROFILE DIGX_AP_TRANSACTION

Please note that OBDX provides user interface to access most of this data. The data will be accessible to you only if you have required roles and policies mapped to your OBDX login. For example, an Administrator user can see retail user's profile only if he is entitled by a policy to access this information.

5.1.2 **Data stored outside OBDX**

OBDX can store user information in external systems such as OUD or LDAP. OBDX provides screens for fetching this data. Please refer to the '**User Management**' topic of **User Manual Oracle Banking Digital Experience Core** of OBDX.

https://docs.oracle.com/cd/F40800_01/um_docs/User%20Manual%20Oracle%20Banking%20Digital%20Experience%20Core.pdf

Also note that the data can be accessed directly from the external system i.e. OUD, Open LDAP or the Product Processor. These details are outside the scope of this document. Please refer to the manual of corresponding software for more details.

5.2 **Deleting or Purging PII data**

There are two ways in which PII data can be deleted or purged from the system.

5.2.1 **Using User Interface**

The information created in (or owned by) OBDX can be deleted from its user interface. For example, a retail user can delete the beneficiaries he/she has maintained. Please refer to 'Manage Payee' section of following user manual for more details.

https://docs.oracle.com/cd/F30659_01/um_docs/User%20Manual%20Oracle%20Banking%20Digital%20Experience%20Retail%20Payments.pdf

Note that user's data such as CIF or account number is not owned by OBDX and hence it cannot be deleted from OBDX. However information such as account access granted to a particular user can be modified or deleted by the bank administrator. Please refer to 'Party Account Access' and 'User Account Access' sections of the Core user manual for more details.

https://docs.oracle.com/cd/F30659_01/um_docs/User%20Manual%20Oracle%20Banking%20Digital%20Experience%20Core.pdf

5.2.2 **Using purge procedures**

OBDX provides some out of the box purge procedure that can be used to purge the data. Otherwise the DBA / IT staff can prepare similar procedures to purge required data. However note that it is not recommended to purge or delete any data stored in OBDX tables without doing detailed impact analysis. Please also note that the purge jobs are useful typically for purging old data. They may not be useful for purging data of a specific customer.

Procedure name –

DIGX_USER_PII_DATA_PURGE.sql

Procedure input parameter –

User Id (unique identifier of user) which is to be purged.

Description -

DIGX_USER_PII_DATA_PURGE will permanently purge the user and all the PII data associated with the user from all the database tables of OBDX.

It must be noted that once user is purged then associated PII data and user cannot be retrieved under any circumstances.

Associated table –

This table holds data of table names and field names of tables containing User Id. Procedure fetches data from table DIGX_UM_USERS_ASSOCIATIONS and deletes all the PII data related to the provided User Id

Steps to run -

Run the procedure with providing User Id as input parameter.

5.2.3 Manual truncation of data from backend

In scenarios where OBDX does not have user interface to remove customer data and scheduled purge option is not useful, then data needs to be purged using SQL scripts. Below section provides some queries that can be used for such a purging. This option must be used with utmost care and proper impact analysis must be done before using these scripts.

PII Data	Table	Script
For modules other than Origination: Personal information of user including Country, state, or city of residence, Date of birth, Email address, Employee ID, Full name, Gender, Personal/office telephone numbers, Login name, Work telephone, First Name, Surname	USERS GROUPMEMBERS DIGX_UM_USERPROFILE DIGX_UM_USERAPPDATA DIGX_UM_USERPARTY_RELATION DIGX_UM_REGISTRATION	<pre>delete from digx_um_userparty_relation where user_id = '<USER IDENTIFIER>'; delete from digx_um_userappdata where id = '<USER IDENTIFIER>'; delete from DIGX_UM_USERPROFILE where U_NAME = '<USER IDENTIFIER>'; delete from GROUPMEMBERS where G_MEMBER = '<USER IDENTIFIER>'; delete from USERS where U_NAME = '<USER IDENTIFIER>';</pre>
Bank Account Information	DIGX_AC_ACCOUNT_NICKNAME DIGX_AM_ACCOUNT_ACCESS DIGX_AM_ACCOUNT_EXCEPTION	<pre>delete from DIGX_AC_ACCOUNT_NICKNAME where USER_ID = <USER IDENTIFIER>; delete from DIGX_AM_ACCOUNT_EXCEPTION where ACCOUNT_ACCESS_ID in (select ACCOUNT_ACCESS_ID from DIGX_AM_ACCOUNT_ACCESS where ACCESS_LEVEL = 'USER' and USERID = <USER IDENTIFIER>); delete from DIGX_AM_ACCOUNT_ACCESS where ACCESS_LEVEL = 'USER' and USERID = <USER IDENTIFIER>;</pre>

PII Data	Table	Script
Beneficiaries	DIGX_PY_PAYEEGROUP DIGX_PY_PAYEE DIGX_PY_DOMESTIC_UK_PAYEE DIGX_PY_INTERNAL_PAYEE DIGX_PY_DEMANDDRAFT_PAYEE DIGX_PY_INTNATNL_PAYEE_BNKDTLS DIGX_PY_DOMESTIC_INDIA_PAYEE DIGX_PY_PEERTOPEER_PAYEE DIGX_PY INTERNATIONAL_PAYEE DIGX_PY_DOMESTIC_SEPA_PAYEE	delete from DIGX_PY_INTNATNL_PAYEE_BNKDTLS_V3 where PAYEE_ID in (select PAYEE_ID from DIGX_PY_PAYEE_V3 where CREATED_BY = <USER IDENTIFIER>); delete from DIGX_PY INTERNATIONAL_PAYEE_V3 where PAYEE_ID in (select PAYEE_ID from DIGX_PY_PAYEE_V3 where CREATED_BY = <USER IDENTIFIER>); delete from DIGX_PY_DEMANDDRAFT_PAYEE_V3 where PAYEE_ID in (select PAYEE_ID from DIGX_PY_PAYEE_V3 where CREATED_BY = <USER IDENTIFIER>); delete from DIGX_PY_DOMESTIC_PAYEE_V3 where PAYEE_ID in (select PAYEE_ID from DIGX_PY_PAYEE_V3 where CREATED_BY = <USER IDENTIFIER>); delete from DIGX_PY_INTERNAL_PAYEE_V3 where PAYEE_ID in (select PAYEE_ID from DIGX_PY_PAYEE_V3 where CREATED_BY = <USER IDENTIFIER>); delete from DIGX_PY_PEERTOPEER_PAYEE_V3 where PAYEE_ID in (select PAYEE_ID from DIGX_PY_PAYEE_V3 where CREATED_BY = <USER IDENTIFIER>);

PII Data	Table	Script
		<pre>delete from DIGX_PY_PAYEE_PARTY_MAP_V3 where PAYEE_ID in (select PAYEE_ID from DIGX_PY_PAYEE_V3 where CREATED_BY = <USER IDENTIFIER>); delete from DIGX_PY_PAYEE_V3 where CREATED_BY = <USER IDENTIFIER>;</pre>

PII Data	Table	Script
Party/User Information in Originations	DIGX_OR_APPLICANT	delete from
	DIGX_OR_APPLICANT_ADDRESS	DIGX_OR_APLT_FIN_INCM where APPLICANT_ID = '<APPLICANT IDENTIFIER>';
	DIGX_OR_APLT_IDNT	delete from DIGX_OR_APLT_FIN_AST where APPLICANT_ID = '<APPLICANT IDENTIFIER>';
	DIGX_OR_APPLICANT_CONTACT	
	DIGX_OR_EMAIL_VERIFICATION	delete from DIGX_OR_APLT_FIN_EXP where APPLICANT_ID = '<APPLICANT IDENTIFIER>';
	DIGX_OR_APLT_EMPT	delete from DIGX_OR_APLT_FIN_LIB where APPLICANT_ID = '<APPLICANT IDENTIFIER>';
	DIGX_OR_APLT_FIN_INCM	
	DIGX_OR_APLT_FIN_AST	
	DIGX_OR_APLT_FIN_EXP	delete from DIGX_OR_APLT_EMPT where APPLICANT_ID = '<APPLICANT IDENTIFIER>';
	DIGX_OR_APLT_FIN_LIB	
		delete from DIGX_OR_APLT_IDNT where APPLICANT_ID = '<APPLICANT IDENTIFIER>';
		delete from DIGX_OR_APPLICANT_CONTACT where APPLICANT_ID = '<APPLICANT IDENTIFIER>';
		delete from DIGX_OR_EMAIL_VERIFICATION where SUBMISSION_ID = '<SUBMISSION IDENTIFIER>';
		delete from DIGX_OR_APPLICANT_ADDRESS where APPLICANT_ID = '<APPLICANT IDENTIFIER>';
		delete from DIGX_OR_APPLICANT where PARTY_ID = '<PARTY IDENTIFIER>';

5.3 Masking of PII data

OBDX framework provides a facility to mask user sensitive information before showing on the screen. Masking is a process in which only some portion of the data is displayed to the user while remaining portion of the data is either skipped or is replaced with hash characters such as '*'. Main purpose of masking is to avoid a possibility of 'over the shoulder' stealing of sensitive information. However it is also used so that the clear text sensitive information is not logged in system logs.

A typical example of masking is the account numbers. When OBDX API is invoked that contains Account number in the response, the API will always give masked value. So complete clear text account number is never displayed on the screen.

OBDX provides masking for following fields out of the box.

Sr. No	Field Name
1	Party Identifier
2	Account Number (Includes current account, saving account, deposit, loan account)
3	Mobile/phone number
4	E-mail ID
5	Social Security Number
6	Submission Identifier
7	Application Identifier

OBDX framework also provides a provision in which any field other than the ones mentioned in the above table can also be masked as per the requirement. This can be achieved by following steps:

1. Create a complex datatype in OBDX. This datatype must extend `com.ofss.digx.datatype.complex.MaskedIndirectedObject`
2. Define a 'masking qualifier' and a 'masking attribute'
3. Configure this masking qualifier and masking attribute in `DIGX_FW_CONFIG_ALL_B`. An example of the configurations for account number mask is given below

```
INSERT INTO digx_fw_config_all_b (PROP_ID, CATEGORY_ID, PROP_VALUE,
FACTORY_SHIPPED_FLAG, PROP_COMMENTS, SUMMARY_TEXT, CREATED_BY,
CREATION_DATE, LAST_UPDATED_BY, LAST_UPDATED_DATE, OBJECT_STATUS,
OBJECT_VERSION_NUMBER)
```

```
VALUES (*.account_id, 'Masking', 'AccountNumberMasking<', 'Y', null, null, 'ofssuser', sysdate,
'ofssuser', sysdate, 'A', 1);
```

```
INSERT INTO digx_fw_config_all_b (PROP_ID, CATEGORY_ID, PROP_VALUE,
FACTORY_SHIPPED_FLAG, PROP_COMMENTS, SUMMARY_TEXT, CREATED_BY,
CREATION_DATE, LAST_UPDATED_BY, LAST_UPDATED_DATE, OBJECT_STATUS,
OBJECT_VERSION_NUMBER)
```

```
VALUES ('AccountNumberMasking', 'MaskingPattern', 'xxxxxxxxxxxxNNNN', 'Y', null, null,
'ofssuser', sysdate, 'ofssuser', sysdate, 'A', 1);
```

With above steps, the OBDX framework will make sure to mask the data of this data type during serialization phase in the REST tier.

The masking pattern can contain following characters

1. N – Original character in the data will be retained
2. H – Original character in the data will be skipped
3. * (Or any other placeholder character) – Original character in the data will be replaced with this character

6. Access Control for Audit Information

OBDX provides mechanism for maintaining audit trail of transactions / activities done by its users in the system. This audit trail is expected to be used for customer support, dispute handling. It can also be used for generating some management reports related to feature usage statistics etc.

From a data protection perspective it is worth noting that the audit trail contains.

PII data in the form of transactional data as well as usage trends or statistics. Hence it is necessary for the Bank to put in place appropriate access control mechanisms so that only authorized Bank employees get access to this data. OBDX provides comprehensive access control mechanism that the Bank can leverage to achieve this.

This access control can be achieved using the role based transaction mapping. This section focuses specifically from data protection aspect. You are requested to go through the user manual for 'Role Transaction Mapping' before reading further in this section. As an example, we have considered a use case where the Bank wants to restrict access to 'Audit Log' feature so that only the permitted set of administration users will be able to access audit of the users. Please note that same process can be applied to other services that deal with PII data. For example, same process can be used for restricting access to user management functions.

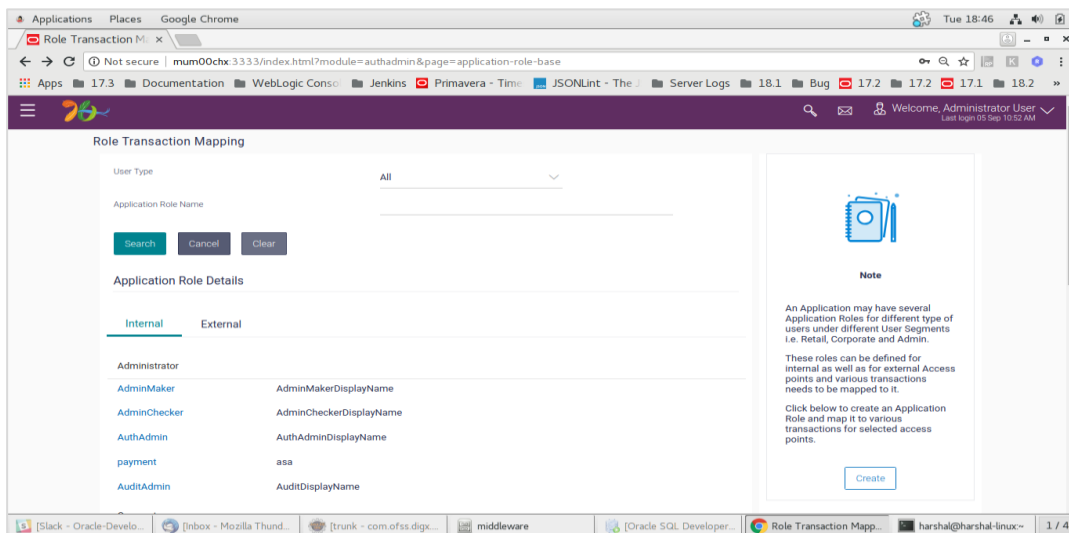
Check the 'out of box' access granted

There are two ways to check the Audit Information

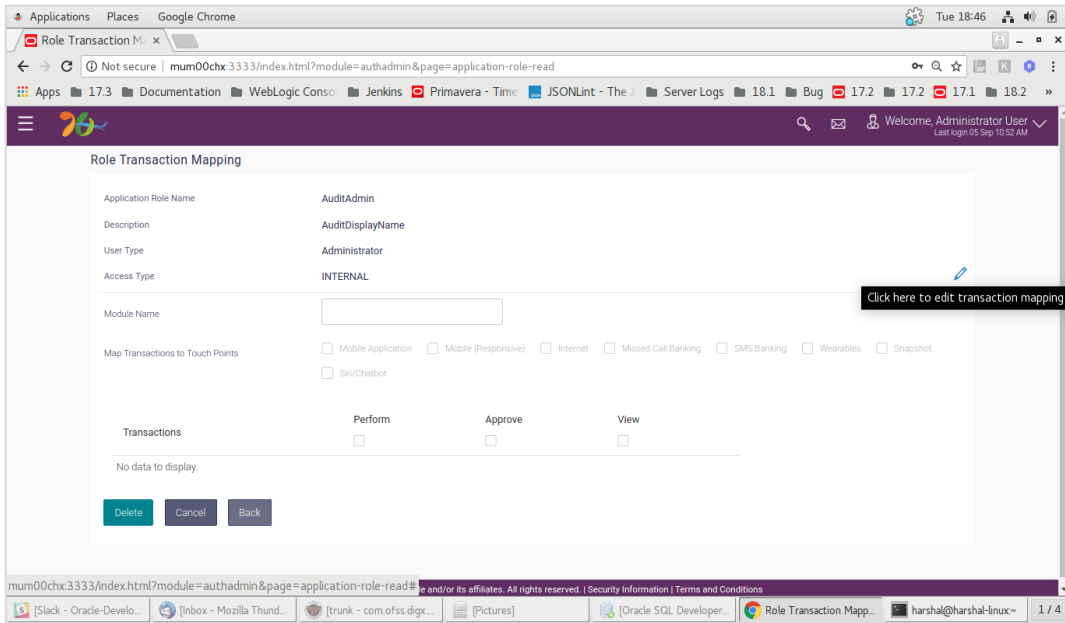
- Maintenance
- Utilization

Maintenance (Performed by system admin)

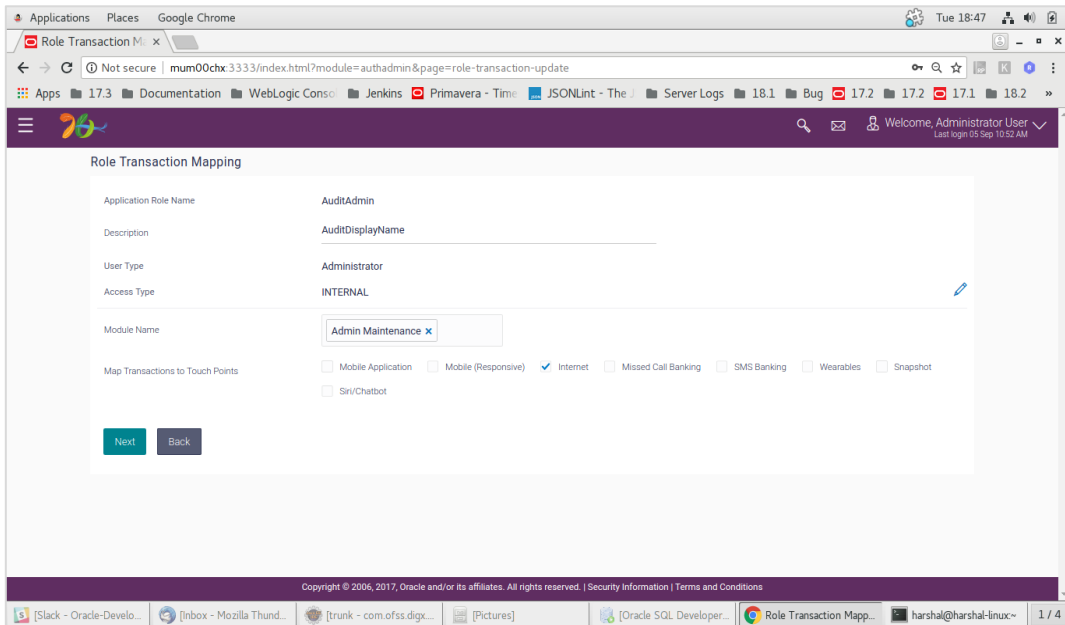
1. Log in using Authadmin credentials.
2. Go to tab Role Transaction Mapping.
3. Find application role named "AuditAdmin" or "AuthAdmin".



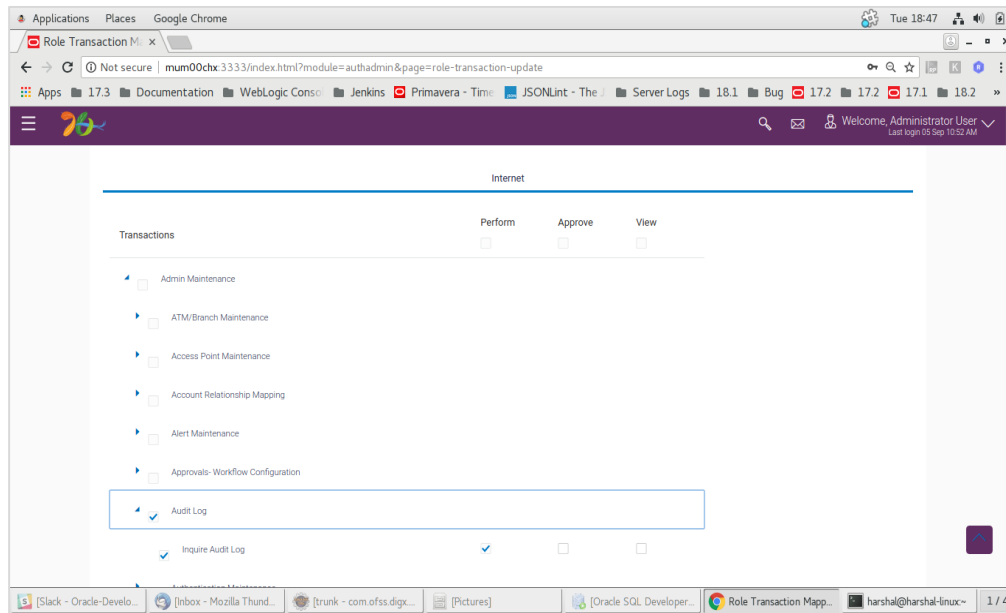
4. Click on AuditAdmin and click on edit symbol as shown.



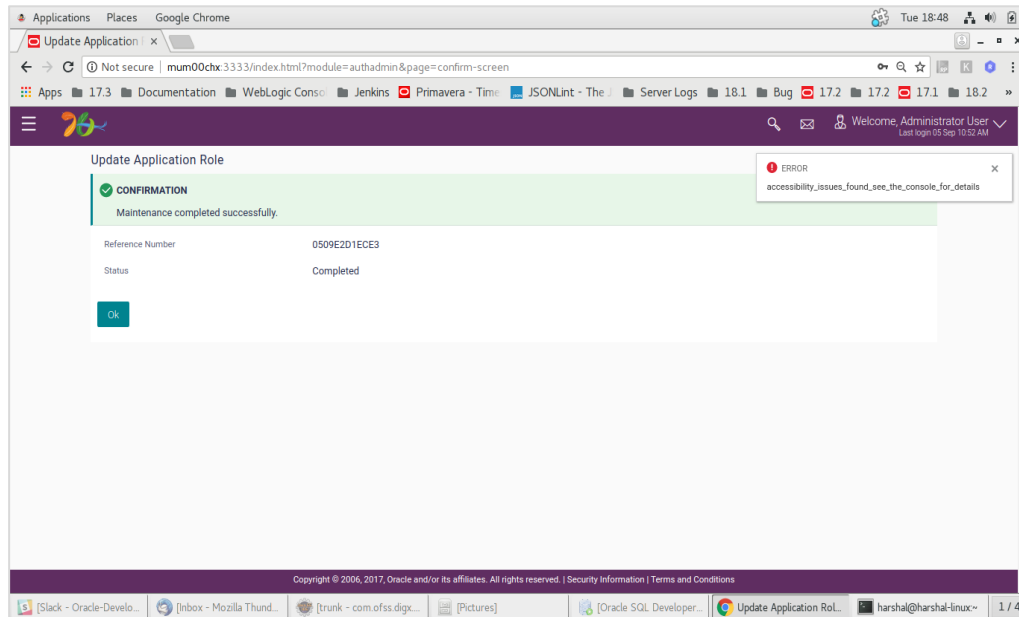
5. Assign module name “Admin Maintenance” and check “Internet”.



6. Under Admin maintenance give access of Module name Audit log to it and click save.

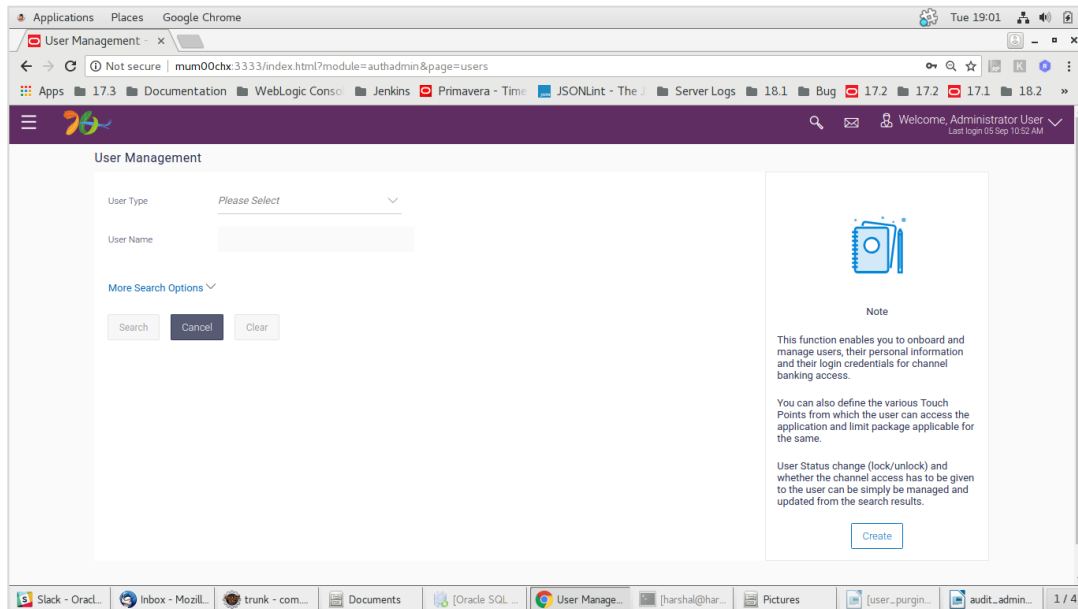


7. Submit.

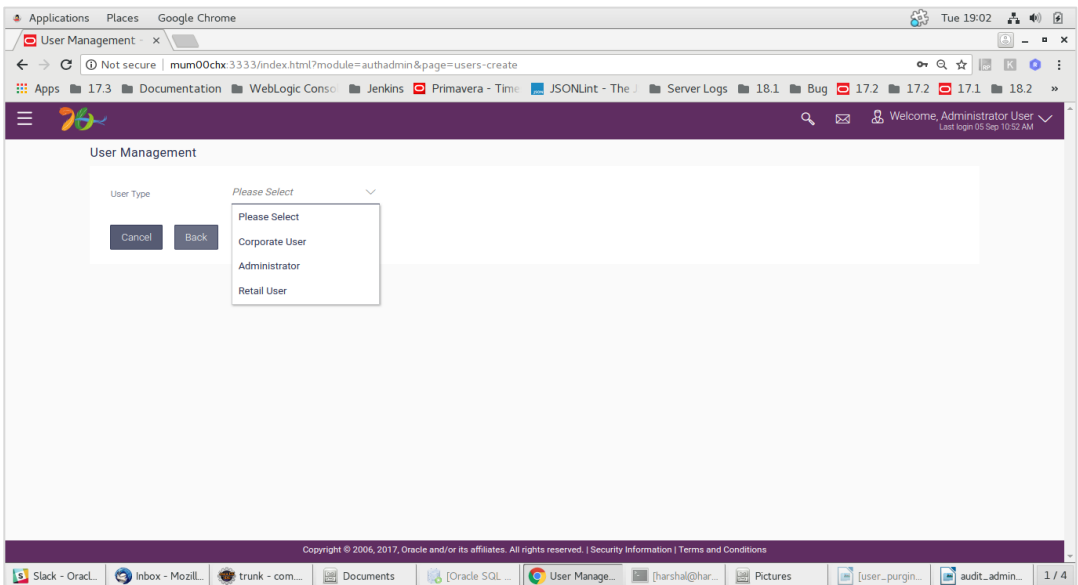


Utilization

1. Go to user management.
2. Click "Create" user.



3. Select Administrator.



4. Fill necessary details.

The screenshot shows a web browser window with the URL `mum00chx3333/index.html?module=authadmin&page=users-create`. The page title is "User Management". The form contains the following fields:

- User Type: Administrator (dropdown)
- Organization: Oracle (text)
- Manager: ABC (text)
- Employee Number: 121212 (text)
- User Name: AuditAdminUser (text) with a green "Available" status indicator.
- Title: Mr (dropdown)
- First Name: AuditAdminUser (text)
- Middle Name: (text)
- Last Name: AuditAdminUser (text)
- Date of Birth: 04 Sep 2018 (calendar icon)

The bottom of the browser shows a taskbar with various open applications like Slack, Inbox, trunk, Documents, [Oracle SQL], User Manage..., [harshal@har...], Pictures, [user_purin...], and audit_admin... 1 / 4.

5. Select AuditAdmin or Authadmin as an application role.

The screenshot shows the same web browser window, but the form is now at the "Roles" section. The "Add Accessible Entity" button is visible. The "Roles" section has the following options:

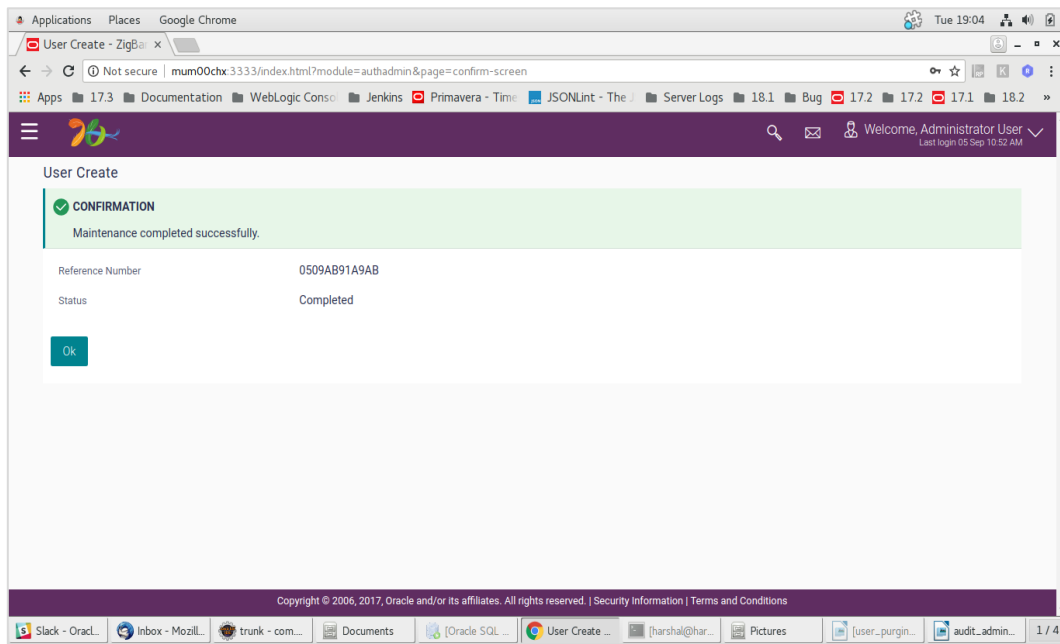
- ☐ AdminMaker
- ☐ AdminChecker
- ☐ AuthAdmin
- ☐ payment
- ☒ AuditAdmin

The "Select Touch Points" section has the following options:

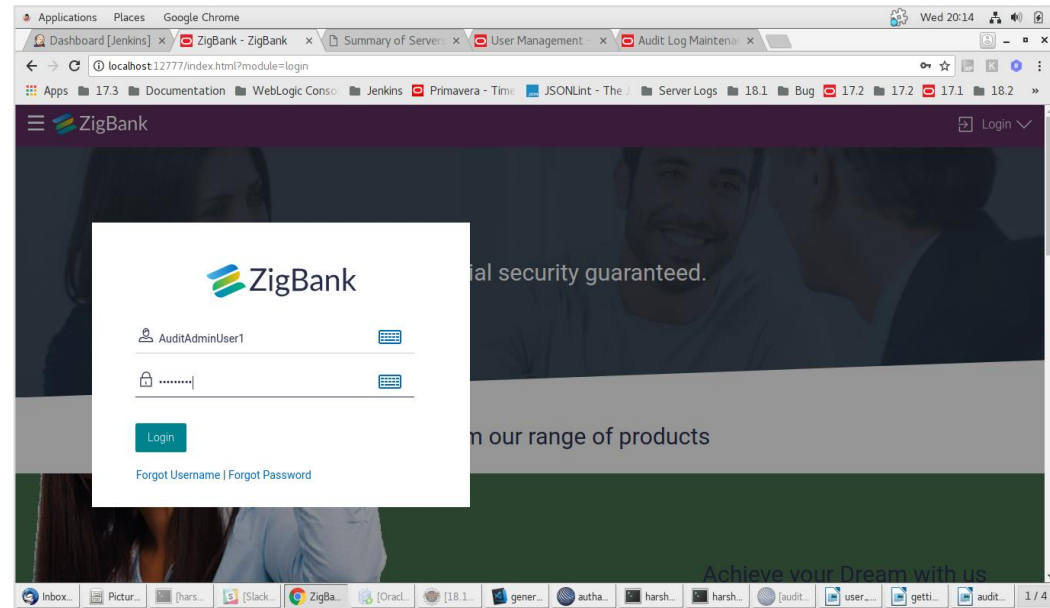
- ☐ Mobile Application
- ☐ Mobile (Responsive)
- ☒ Internet
- ☐ Missed Call Banking
- ☐ SMS Banking
- ☐ Wearables
- ☐ Snapshot
- ☐ Siri/Chatbot

The bottom of the browser shows a taskbar with various open applications like Slack, Inbox, trunk, Documents, [Oracle SQL], User Manage..., [harshal@har...], Pictures, [user_purin...], and audit_admin... 1 / 4.

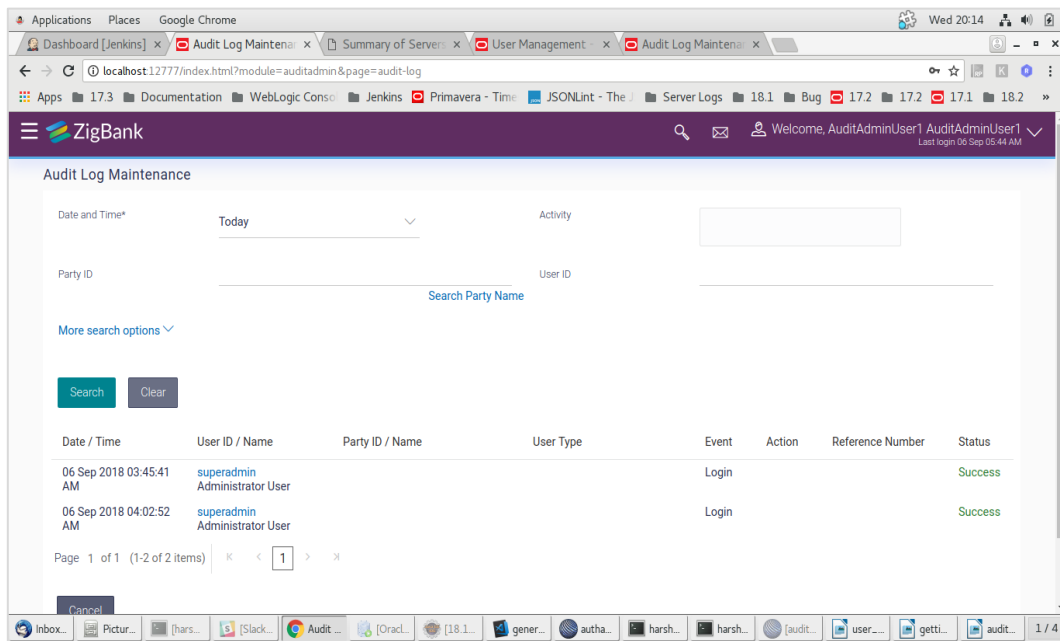
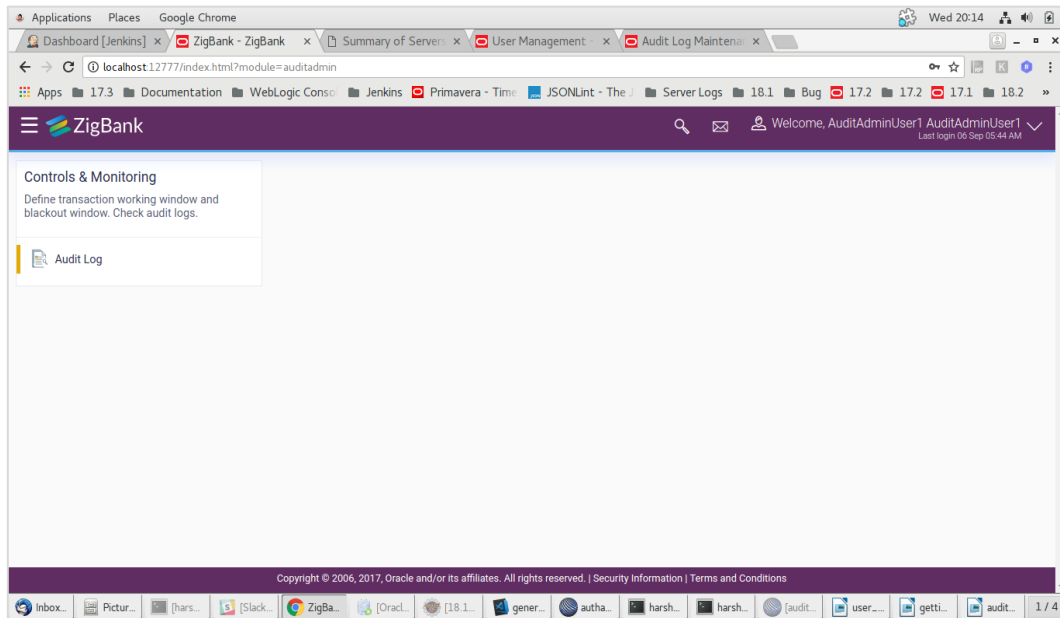
6. Submit



7. Log in using created user.



8. User can access audit log.

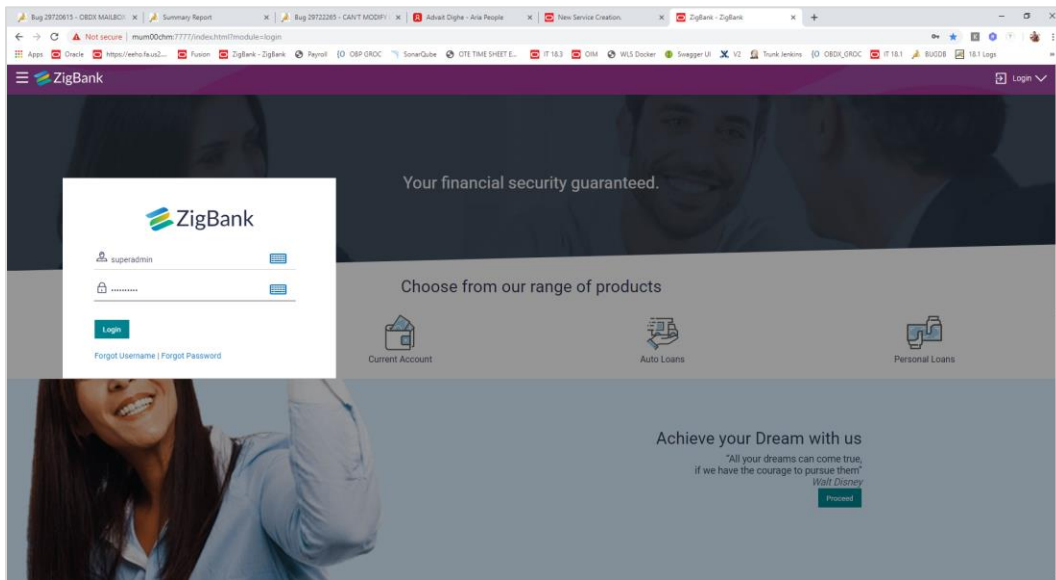


7. User exporting the PII data

This functionality will allow to download of user wise PII in CSV formats.

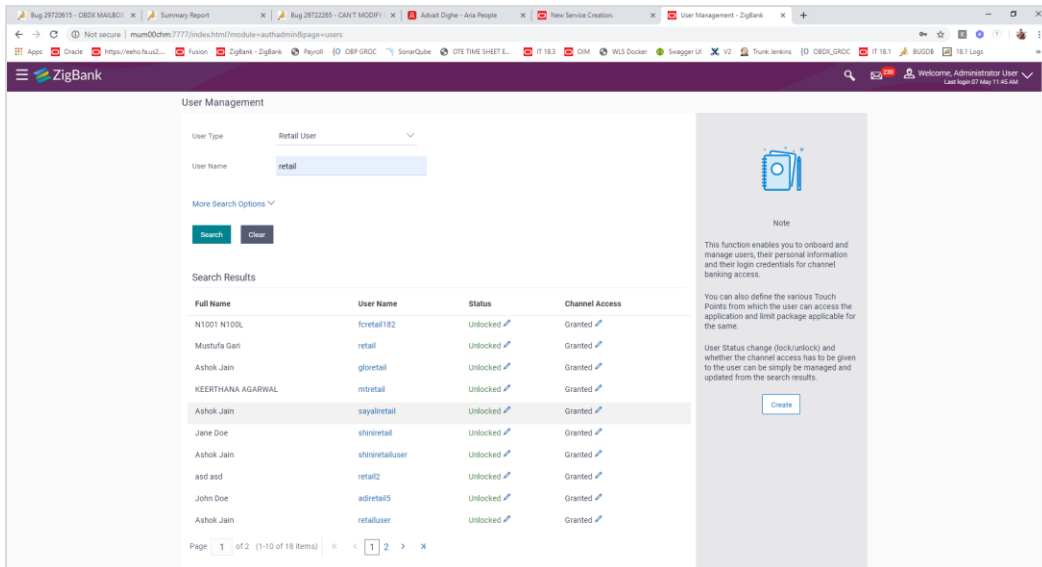
7.1 Administrator

1. Login as administrator



2. Click on “User Management” and search for any user (Corporate User/ Administrator / Retail User)

then clicked on the any “User Name” from the list of search users.



3. Clicked on the “Download profile” link.

The screenshot shows the 'User Management' page in the ZigBank application. The page displays details for a 'Retail User' with the following information:

Personal Information	
User Name	foretail162
Title	Mr
First Name	N1001
Middle Name	N100M
Last Name	N100L
Date of Birth	11 Nov 1980

Contact Details	
Email ID	nimanshu.chawla@oracle.com
Contact Number (Mobile)	+919800000011
Contact Number (Landline)	
Address Line 1	AQW
Address Line 2	
Address Line 3	
Address Line 4	
Country	India
City	MUMBAI
Zip Code	99881

A 'Download profile' link is visible in the top right corner of the user details section.

7.2 Business User

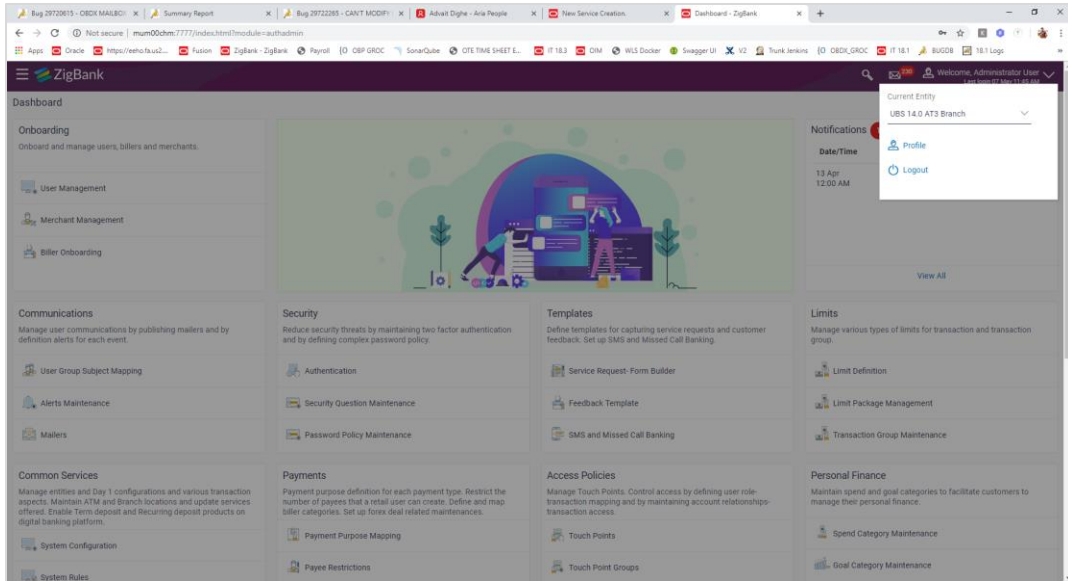
1. Login as Business User (Retail/Corporate/Admin)

The screenshot shows the ZigBank login page. A login modal is open, displaying the ZigBank logo and the following fields:

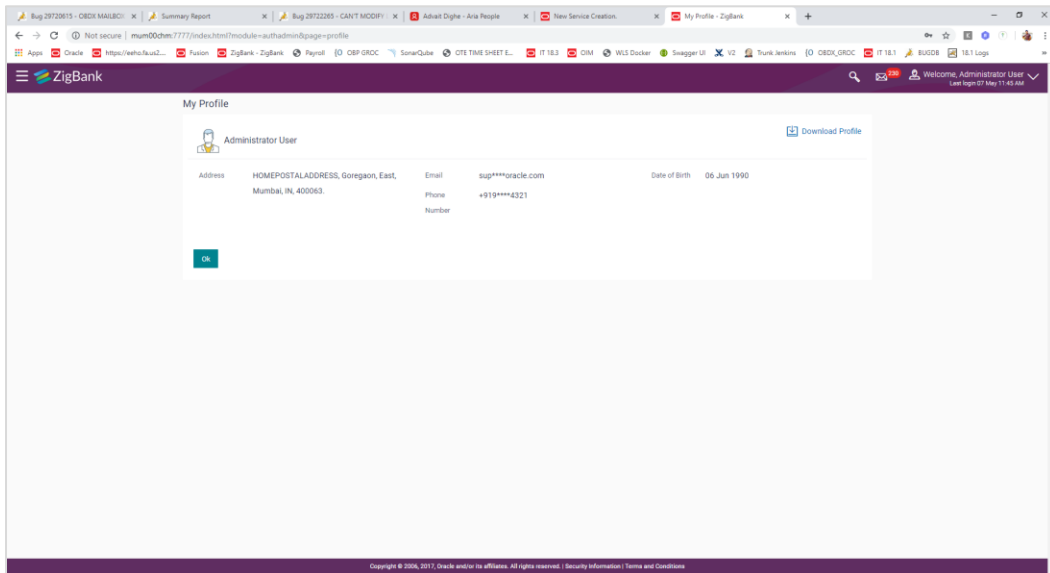
- Username:
- Password:
- Login button
- Forgot Username | Forgot Password link

The background of the page features a banner with the text 'Your financial security guaranteed.' and 'Choose from our range of products' with icons for 'Current Account', 'Auto Loans', and 'Personal Loans'. At the bottom, there is a section titled 'Achieve your Dream with us' with a quote and a 'Proceed' button.

2. Clicked on “Profile”



3. Clicked on “Download Profile”



8. Third Party Consents

This option enables the user to manage the access provided to third party application(s). The user can define the fine-grained entitlements i.e. account level access along with a set of transactions for the third party. The user can disable the access for a specific third party application whenever required.

Note: Only those third party applications for which the user has registered and given rights to access his/her accounts for inquiries and transactions, will appear on this page.

How to reach here:

Dashboard > Toggle Menu > Account Settings > My Preferences > Third Party Application OR

Dashboard > My Profile > Profile > Third Party Application

Third Party Apps

ZigBank Welcome, Ashok Jain
Last login 29 Jun 06:47 PM

Third Party Consents

Profile
Primary Account Num...
Alerts/Notifications
Third Party Apps
Security and Login
Settings

MODEL Solutions **epay**

Application Access ☒ Granted

Current & Savings Term Deposits Loans

☒ xxxxxxxxxxxxxxx0035 - Savings Account Class 1

☒ Map All Transactions

☒ CASA Inquiries

☒ CASA Interest Certificate ☒ Party CASA Interest Certificate ☒ Inquire Sweep-In Instruction

☒ Sweep-In Instruction

☒ Create Sweep-In Instruction ☒ Delete Sweep-In Instruction

☒ Loans

☒ Loan Settlement

☒ CASA

☒ Replace Debit card ☒ Request DC Limit Change ☒ Reset Debit Card Pin ☒ Stop/Unblock Cheque

☒ Allow International Transaction on DC ☒ Request Debit Card Pin ☒ Validate Card Details ☒ Block Debit Card

☒ Cheque Book Request ☒ E-Statement Subscription ☒ Demand Deposit Electronic Statement Download ☒ List Demand Deposit Electronic Statement

☒ Apply Debit Card ☒ Request Demand Deposit Statement

☒ Term Deposits - Financial

☒ New Deposit ☒ TD Top Up

☒ All Inquiry/Transactions

☒ CASA Inquiries

☐ xxxxxxxxxxxxxxx0037 - Savings Account Class 1

☐ xxxxxxxxxxxxxxx0046 - Savings Account Class 1

Edit **Cancel**

[Back To Dashboard](#)

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Field Description

Field Name	Description
Third Party Application Name	The names of the third party applications are displayed. Select a third party application to define access to the application.

Field Name	Description
Application Access	The option to define whether access for the application is to be provided or not. If access is granted, then the user can revoke access and if it was revoked, then the user can grant access whenever required.
Current and Savings/ Term Deposits/ Loans and Finances	Select a product to define account and transaction level access to the third party.

1. Select the third party application for which you wish to define fine grained access.
2. The system will display the list of accounts under each of the account types along with the transactions
3. Click **Edit** to modify account and transaction access. The **Third Party Consents – Edit**
4. The screen with values in editable form appears.
OR
Click **Cancel** to cancel the operation and to navigate back to the Dashboard.
OR
Click **Back to Dashboard** to go to the Dashboard.

Third Party Apps – Edit

Welcome, Mary Doe
Last login 12 Jun 04:41 PM

Third Party Consents

Profile

Primary Account Num...

Alerts/Notifications

Third Party Apps

Security and Login

Settings

MODEL Solutions

epay

Application Access ☒ Granted

Current and Savings

Term Deposits

Loans and Finances

☒ xxxxxxxxxxxx0020 - Savings Account - Regular

☒ Map All Transactions

☒ CASA Inquiries

☒ CASA Interest Certificate

☒ Party CASA Interest Certificate

☒ CASA

☒ E-Statement Subscription

☒ Demand Deposit Electronic Statement Download

☒ List Demand Deposit Electronic Statement

☒ Request Demand Deposit Statement

☒ Payments

☒ Domestic Payment

☒ International Draft

☒ Bill Payment

☒ Domestic Draft

☒ International Payout

☒ External Transfer

☒ Internal Transfer

☒ PeerToPeer Transfer

☒ Instruction Cancellation

☒ Self Transfer

☒ All Inquiry Transactions

☒ Payments Inquiries

☒ CASA Inquiries

☐ xxxxxxxxxxxx0018 - Savings Account - Regular

Save

Back

Cancel

Back To Dashboard

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Field Description

Field Name	Description
Third Party Application Name	The names of the third party applications are displayed. Select a third party application to define access to accounts and transactions.
Application Access	The option to define whether access for the application is to be provided or not.
Field Name	Description

**Current and Savings/
Term Deposits/ Loans
and Finances**

Select a product to define account level access to the third party.

Accounts

All the accounts of the user are displayed under the respective account type.

Transactions

Once you select an account, all the transactions through which the account can be accessed are displayed. Select any or all transactions to provide account access for the transactions to the third party application.

1. Click the **Application Access** button to enable / disable access for the third party application.
 - a. If you select **Enable**,
 - i. Click an account type.
The account check boxes are enabled and you can select/deselect any check box to edit access of these accounts to the third party application
 - ii. Select an account check box. The transactions for which the selected account can be accessed appear.
 - iii. Select/Deselect all or any of the transaction checkboxes to define the transactions through which the selected account can be accessed.
2. Click **Save** to save the changes.
OR
Click **Back** to go back to previous screen.
OR
Click **Cancel** to cancel the operation and navigate back to 'Dashboard'.
3. The **Third Party Consents – Review** screen appears. Verify the details, and click Confirm.
OR
Click **Back** to go back to the previous screen.
OR
Click **Cancel** to cancel the operation and navigate back to Dashboard.
4. The success message of third party consent setup appears along with the transaction reference number.
5. Click **OK** to complete the transaction and to navigate back to the Dashboard.

9. Device ID Consents

OBDX framework provides a facility to enable the alternate login via Pin, pattern or touch ID.

1. On the login page, user will get the “Enable Alternate login” functionality. User needs to enable this for alternate login as pin, pattern or touch ID.

5:21 PM

 ZigBank

Your financial security guaranteed.

Username
rickgrimes

Password

Enable Alternate Login ☒

Login

[Forgot User Id](#) | [Forgot Password](#)

Quick Snapshot

 Scan To Pay

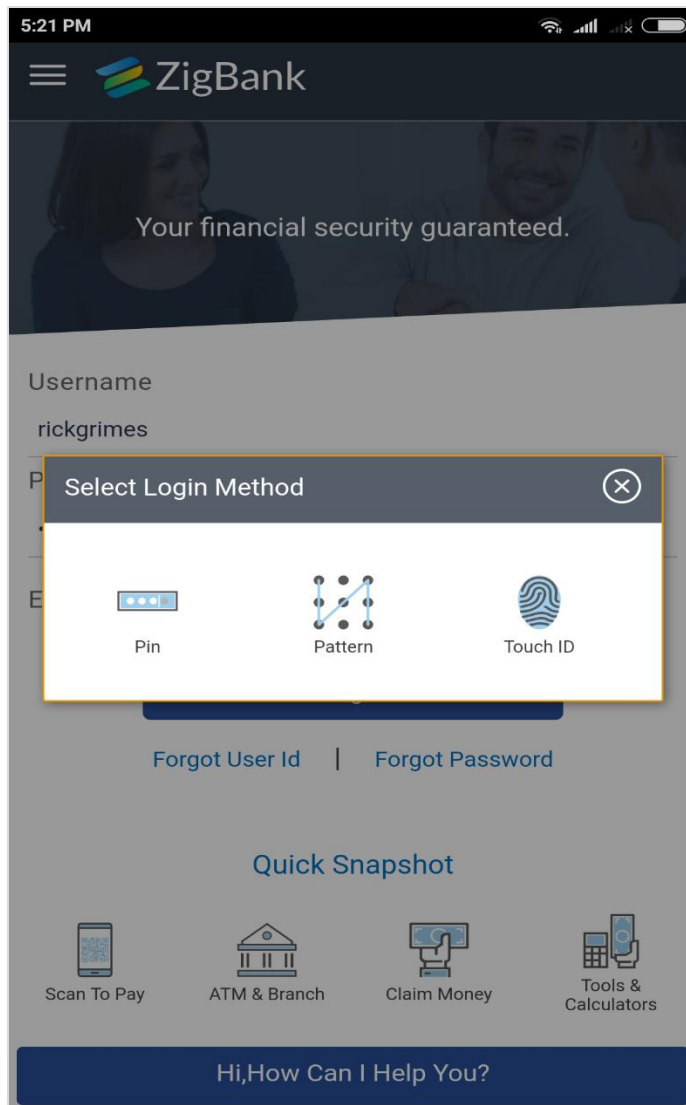
 ATM & Branch

 Claim Money

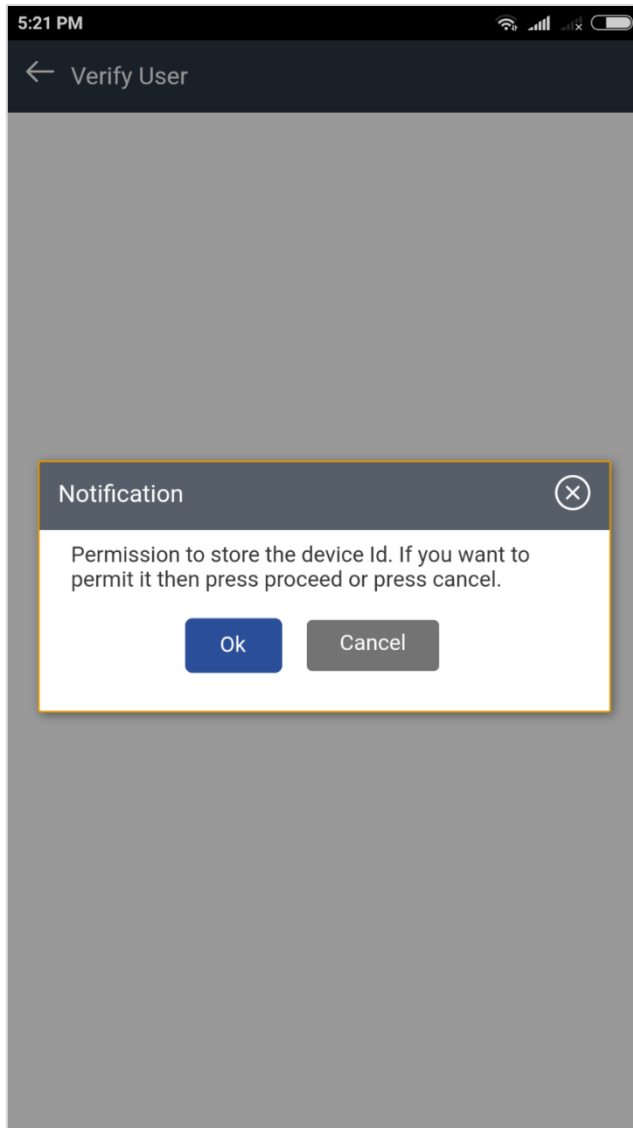
 Tools & Calculators

Hi, How Can I Help You?

2. Once user enables the functionality then, "Select Login Method" pop up will come from which user can select the alternate login method.



3. Once user will select the appropriate option, Notification of permission to store the device id message will display before setting up the alternate login method.



Unregister the Device ID

In the Settings page, user can disable the alternate login from all mobile devices.

