Function ID Development II
Oracle FLEXCUBE Investor Servicing
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1. Preface

This document describes the concepts and helps reader to create screens using non extensible Open Development tool, to develop FLEXCUBE user interface screens.

1.1 Audience

The Non extensible Open Development Function ID Development book is intended for the FLEXCUBE Application Developers who perform the following tasks with Non Extensible Open Development tool:

- Develop the new screen (also called as function ID)
- To modify the existing screen
- Bug Fixing the existing screen

To Use this manual, you need conceptual and working knowledge of the below:

Proficiency	**Resources**
FLEXCUBE IS Development overview	Development Overview Guide
Open Development Tool function ID development getting started	Getting Started
Open Development Tool Reference	Reference
Open Development Tool installation and setup guide	Installation and Setup

1.2 Related documents

For more information on Function ID Development, see these resources:

- Development Overview Guide
- Reference

1.3 Conventions

The following text conventions are used in this document:

Convention Meaning

boldface	Boldface type indicates graphical user interface elements (for example, menus and menu items, buttons, tabs, dialog controls), including options that you select.
italic	italic type indicates book titles, emphasis, or placeholder variables forwhich you supply particular values.
monospace	Monospace type indicates language and syntax elements, directory and File name, URLs, text that appears on the screen, or text that

	you enter.
	Indicates important information

1.4 Pre-request

- Target FLEXCUBE IS environment
- Non extensible Open Development environment with designated project and release details

2. Introduction

2.1 How to use this Guide

The information in this guide includes:

- Chapter 2, "Introduction"

  This is introduction section.

- Chapter 3, "Manual Static data population"

  This section describes the prerequisites before creating a Function ID.

- Chapter 4, "Header Information"

  This section describes the Header Credentials in detail.

- Chapter 5, "Datasources"

  This section describes the steps required to get started with Function Creation.

- Chapter 6, "List of Values"

  This section describes steps to add List Of Values definitions.

- Chapter 7, "Screen Layout Design"

  This section describes the actions to be performed after adding Datasources.

- Chapter 8, "Data Blocks"

  This section describes the steps required to design the Screen Layout.

- Chapter 9, "Fieldsets"

  This section describes the steps required to map the Fields to specific locations in the Screen.

- Chapter 10, "Callform"

  This section describes the callform details.

- Chapter 11, "Actions"

  This section describes the amendable.

- Chapter 12, "Summary"

  This section describes the steps to design the Summary Screen.

- Chapter 13, "Open Development Tool Files Generation"

  This section describes steps to generate and deploy Open Development Tool Files.

3. Manual Static data population

- This section explains the data base tables that need to be manually populated to start the Open Development screen development. Developer has to add data manually in the below tables.

3.1 Pre_creation of Open Development Activity

Following tables need to be populated

3.1.1 CSTB_DATA_DICTIONARY maintenance

Add rows in CSTB_DATA_DICTIONARY for Table/View and columns.

Column Name	Data Type	Data Length	Constraints
TABLE_NAME	VARCHAR2	50	PRIMARY
COLUMN_NAME	VARCHAR2	50	PRIMARY
LABEL_CODE	VARCHAR2	255	
FIELD_NAME	VARCHAR2	255	

3.1.2 CSTB_ITEM_DESC_maintenance

Add rows in CSTB_ITEM_DESC for all label code required.

Column Name	Data Type	Data Length	Constraints
LABEL_CODE	VARCHAR2	255	PRIMARY
LANGUAGE_CODE	VARCHAR2	3	
LABEL_TYPE	VARCHAR2	20	
LABEL_DESCRIPTION	VARCHAR2	4000	

3.1.3 STTB_PK_COLS maintenance

Add rows in STTB_PK_COLS for tables that are part of data sources.

Column Name	Data Type	Data Length	Constraints
TABLE_NAME	VARCHAR2	30	PRIMARY
COLUMN_LIST	VARCHAR2	300	
DATA_TYPE_LIST	VARCHAR2	300	
DATA_LENGTH_LIST	VARCHAR2	100	

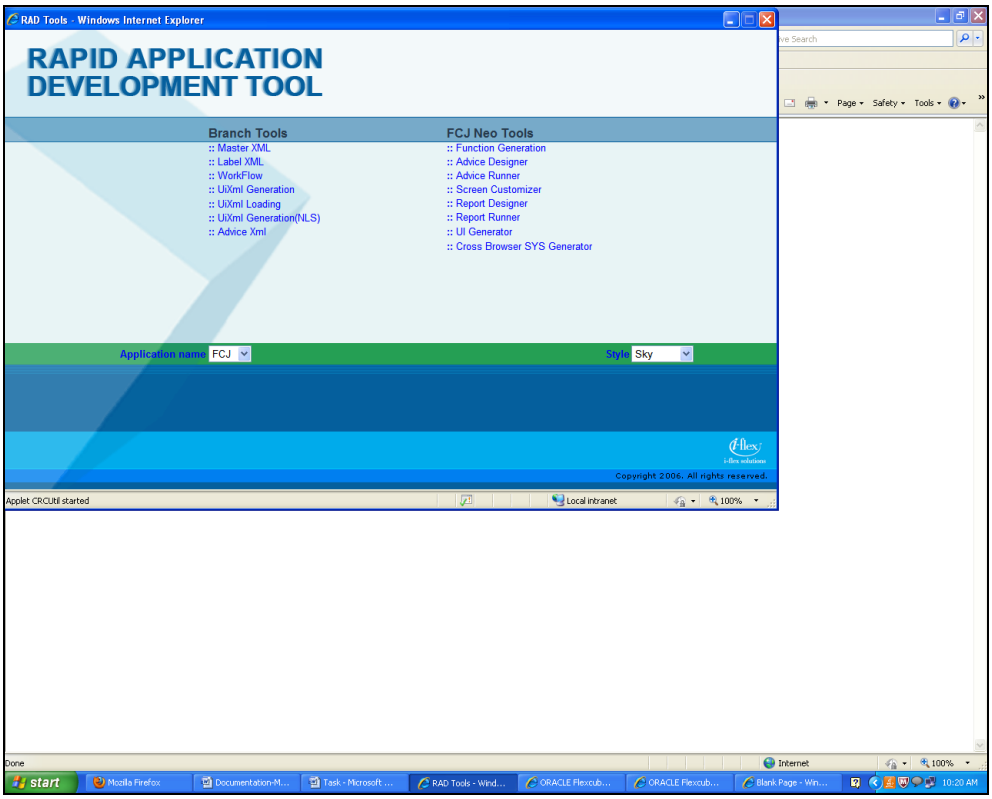
3.2 Post creation of Open Development activity

Following tables need to be populated:

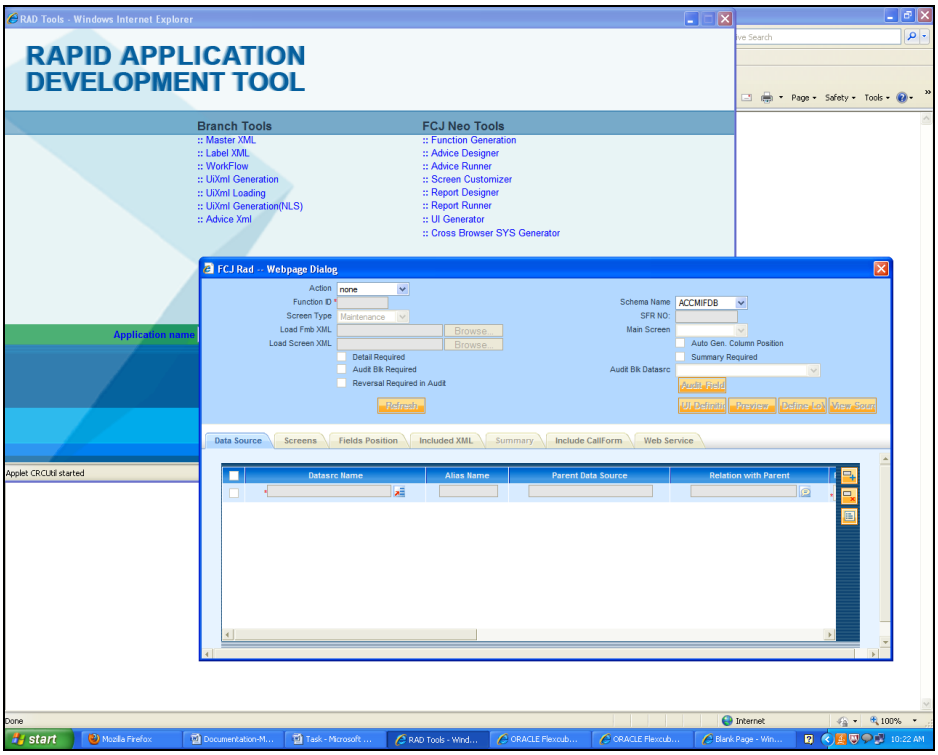
- SMTB_FUNCTION_DESCRIPTION
- SMTB_MENU,
- SMTB_ROLE_DETAIL
- SMTB_FCC_FCJ_MAPPING

4. Header Information –Basic Information about the Screen

Open the Non extensible Open Development Tool.



- Click on *Function Generator* shown above and the below screen will appear.



4.1 Schema Name

Developer has to select the appropriate schema in which he wants to develop the screen.

4.2 Action

Select *New* if you want to develop a new screen and *load* for modification of existing screen.

4.3 Function ID

The name of function Id has to be defined according to standard conventions .

4.4 Screen Type

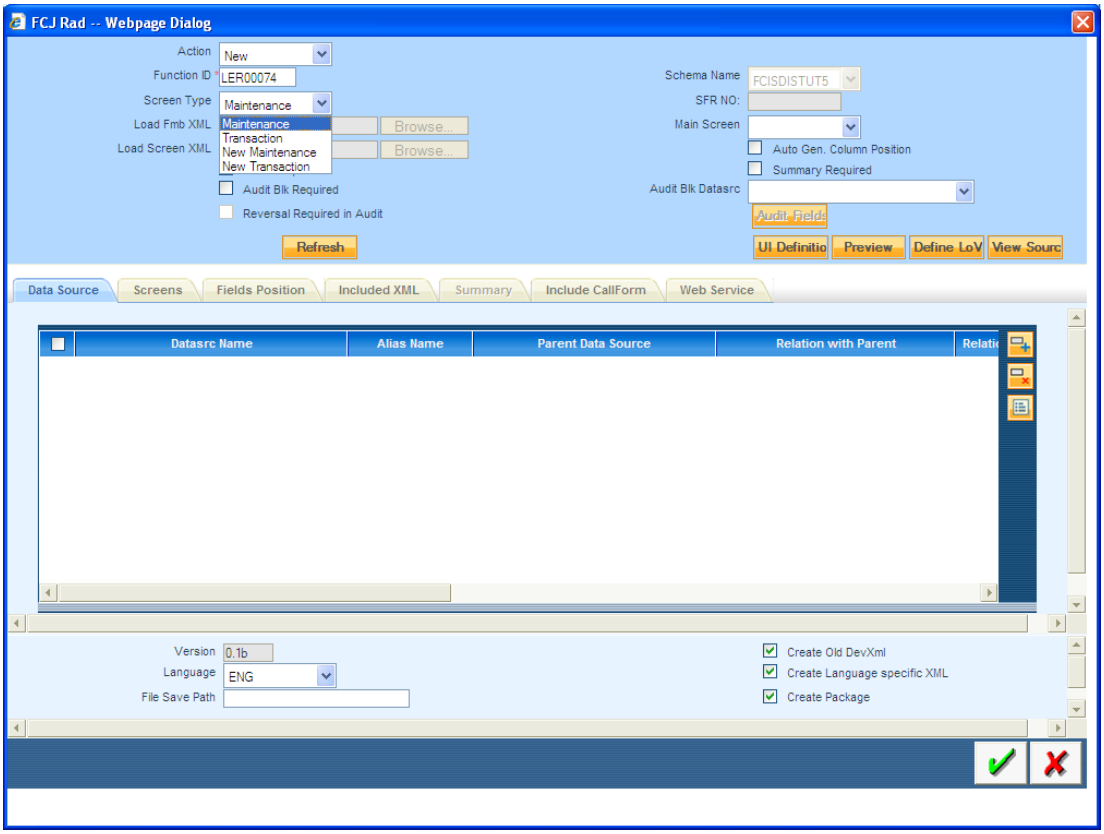
This can be either *Maintenance* or *Transaction* based on the Function ID being developed.

4.5 Language

This should be selected based on the language in which the screen is to be developed. Developer has to ensure that the Label information in the selected language is available in the selected schema.

4.6 File Save Path

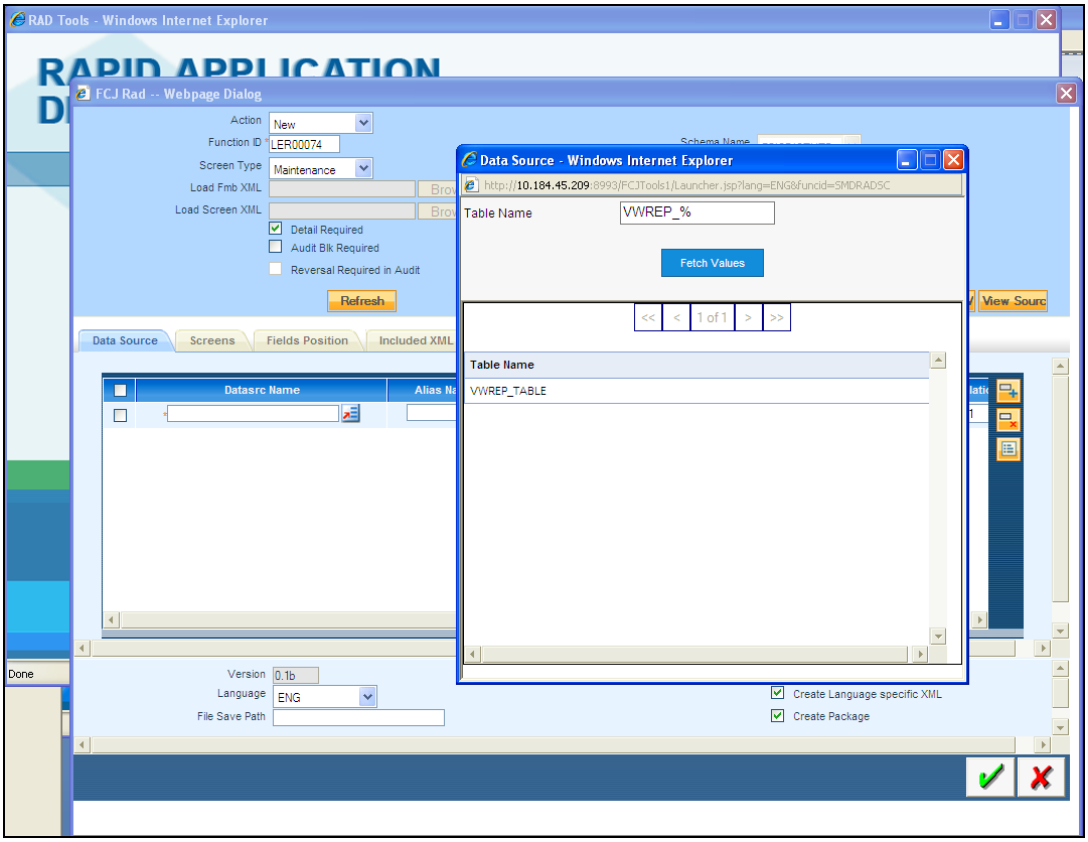
Developer has to specify the location where he wants to save the file.



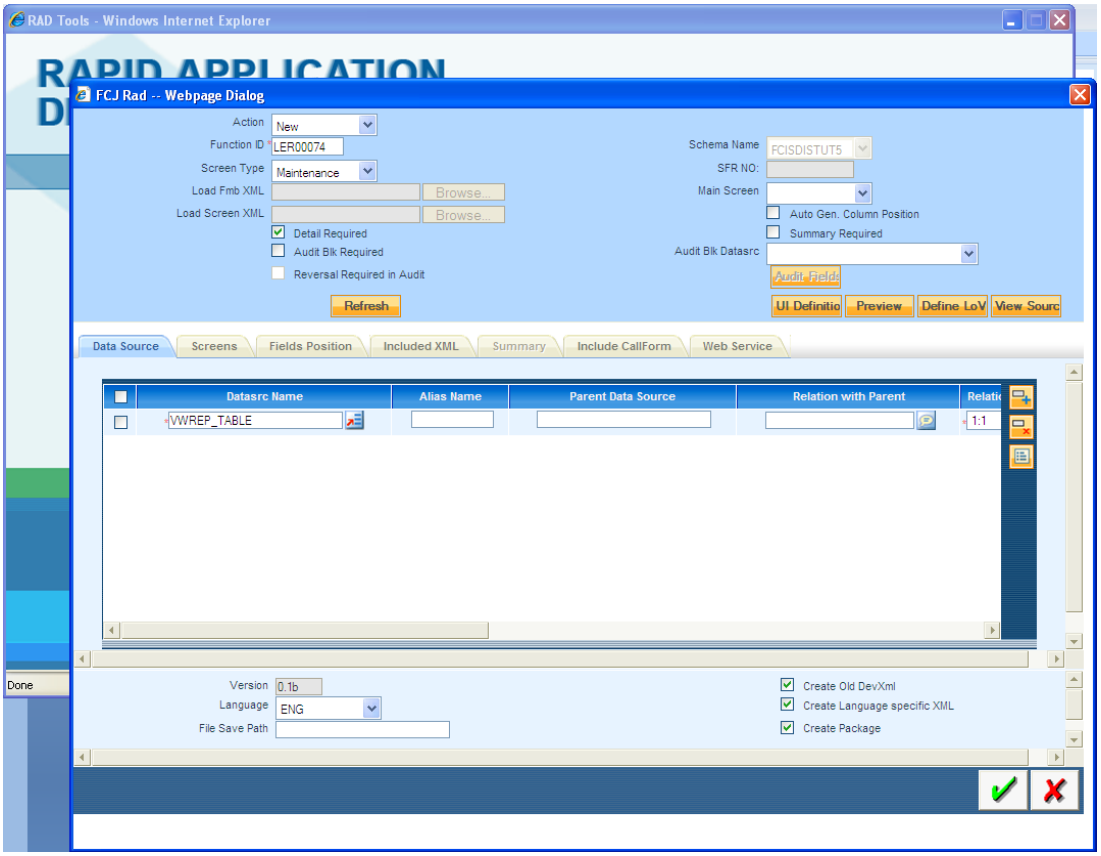
- If the summary screen is required for the function id, then the Summary Required check box should be checked.
- If the audit block has to get displayed for the detailed screen, then the Audit Blk Required check box should be checked.
- If the generation of the packages is not required, then the Create Package checkbox can be unchecked.
- Main screen tab has to be selected.

5. Data Sources

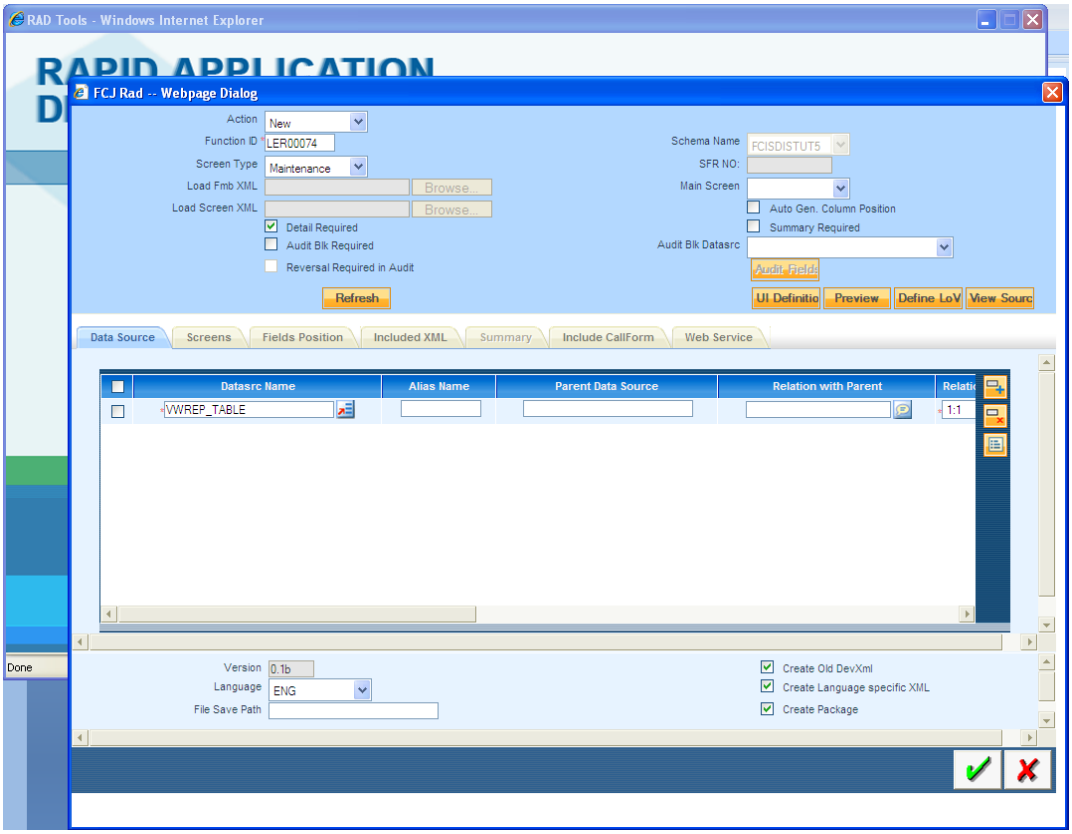
- Click on the *data source* tab.
- You can add one-one, one –many, query and view type data source by clicking on the plus button on the top right corner of screen.
- You have to mention the *Parent / Master* data source.
- For rest child data source you have to give the parent as well as relation with parent along with relation type depending on type of datasource.
- Add the default clause where needed.
- For query data source you need to tick the corresponding query checkbox. This type of datasource is required when description has to be added for fields.
- For *Summary data source* you need to tick the corresponding checkbox too. This type of datasource is required when you have *Summary* screen.
- Selecting Data Source



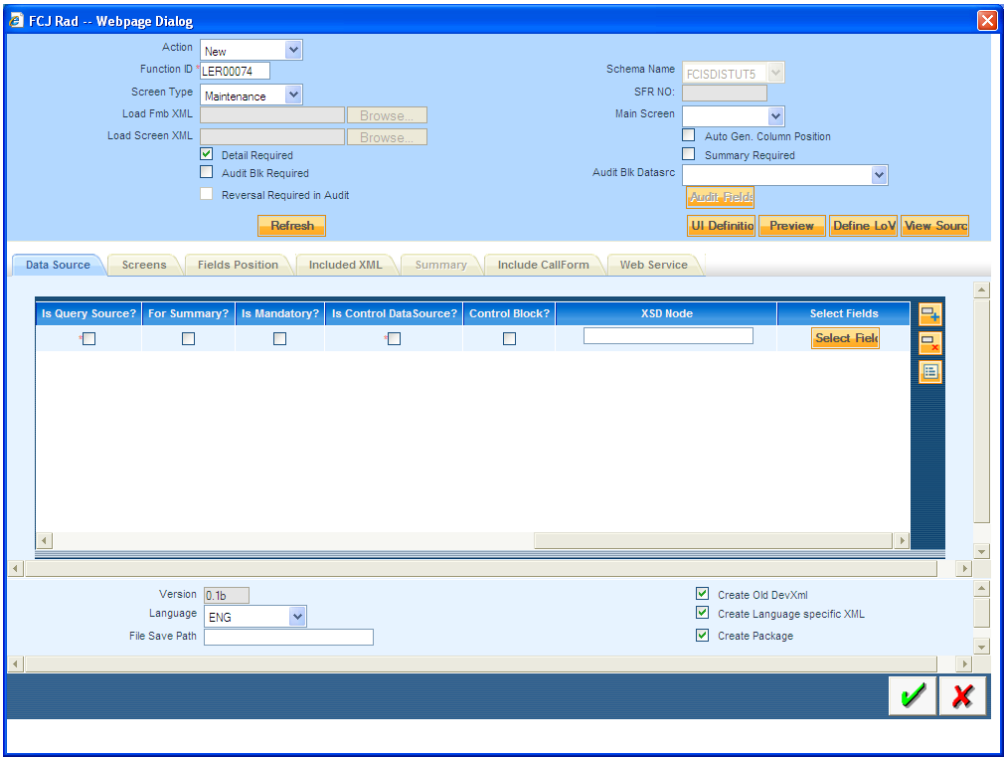
- Data Source Added



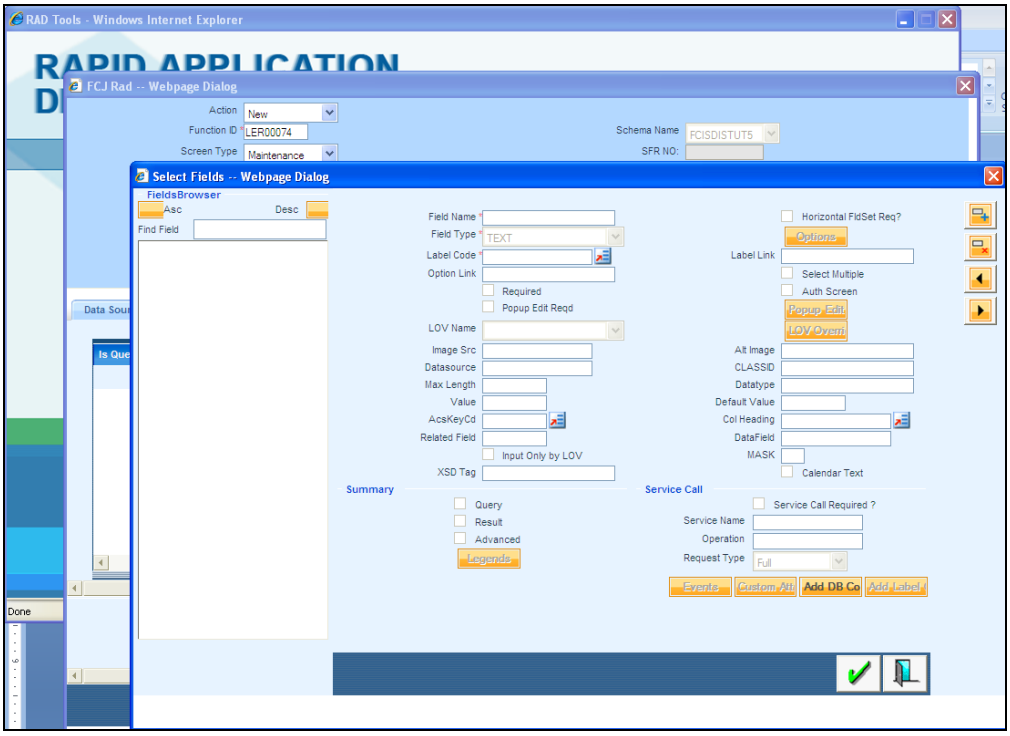
- Supposedly you need to access same fields of one datasource twice, than you need to create an *alias* of that data source. This is done by adding the same datasource again along with that you need to add a name in the alias column for that data source. In this way you can access those fields twice.
- For Alias Datasource



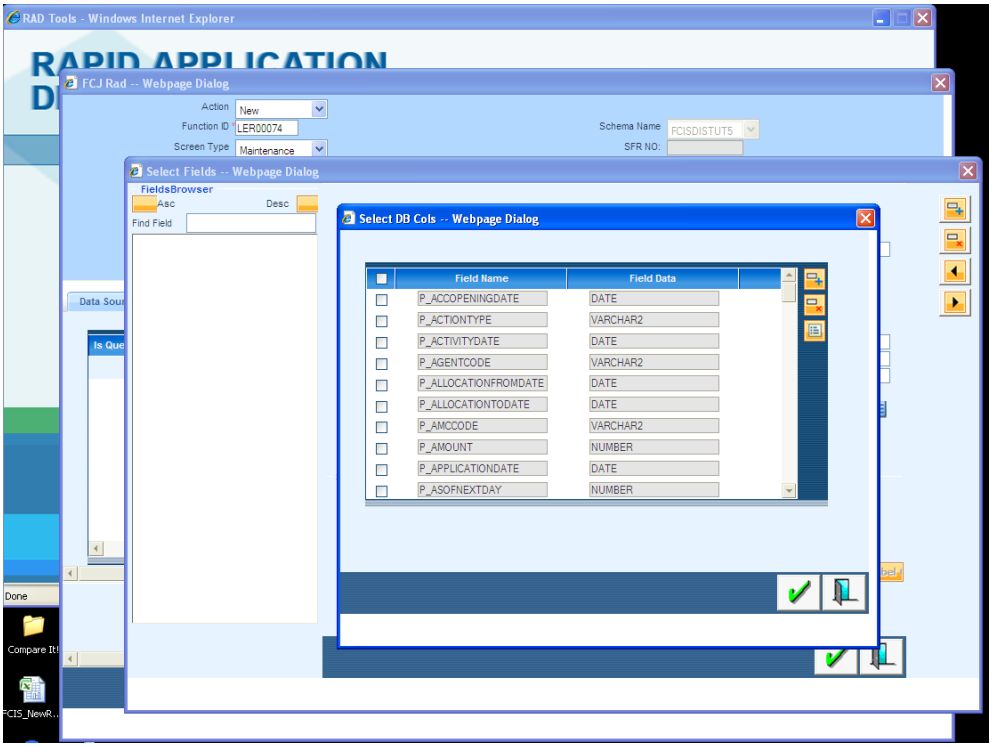
- The required fields in each datasource are added by clicking the Select *Field* button present at the right corner of the *datasource* tab.



- For adding Fields click *Add DB Cc*

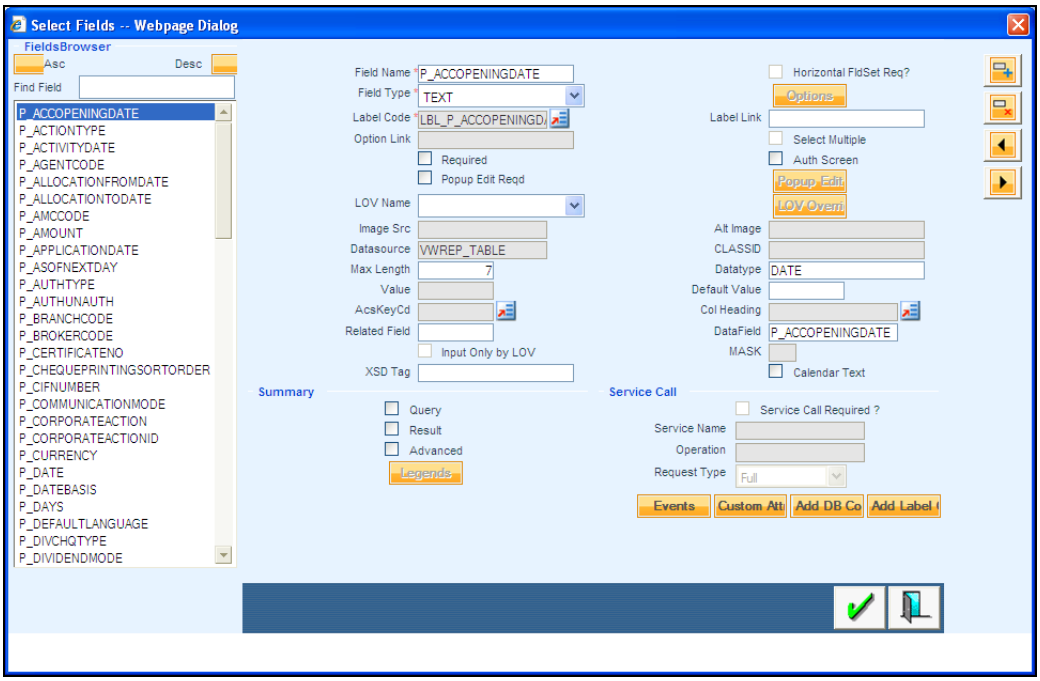


- Select the required fields from the list

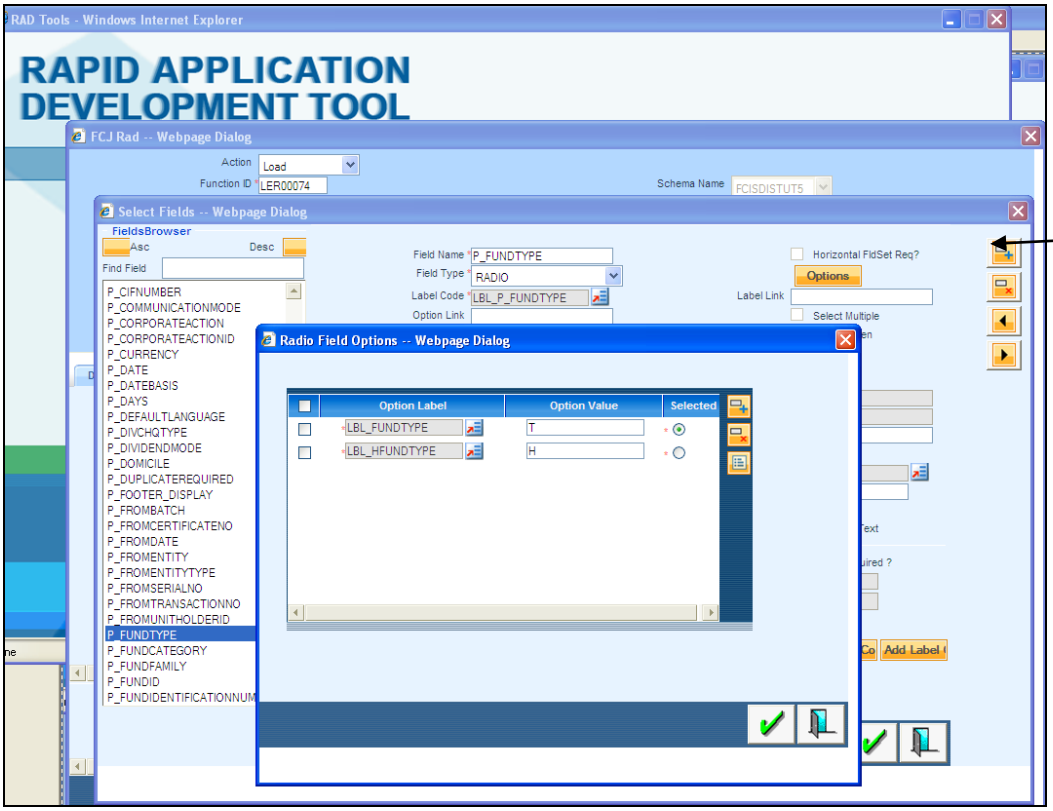


- You need to define their properties like field type, label, required and popup edit.
- If that field should also come in *Summary screen* than you need to tick the check boxes under summary heading. Query checkbox if you want that field to be used as query in summary. Result and Advanced when you want the field to be just present in summary screen.

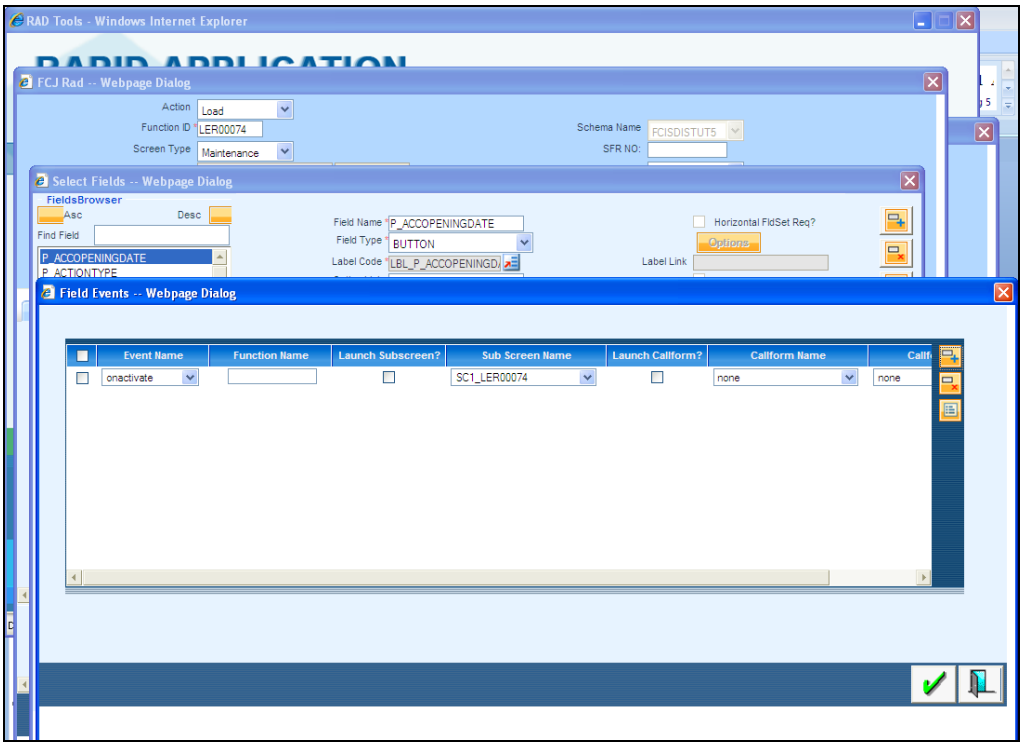
- For creating a *fieldset* you need to click on plus button on the right corner of screen and give all details like name of field set and its location on screen. Please refer the "Fieldset" section for more details.



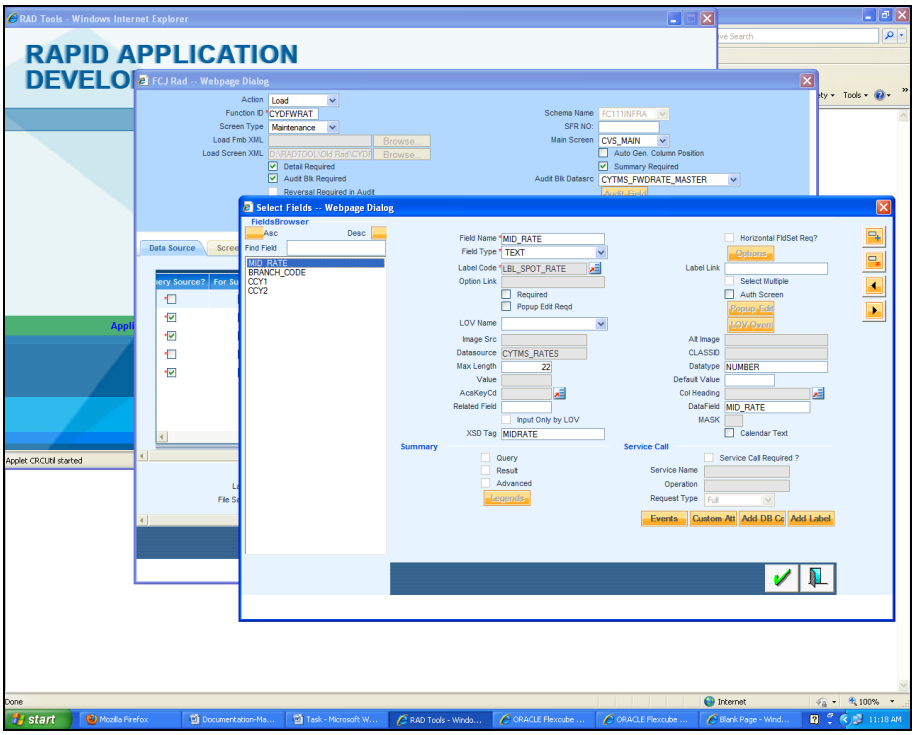
- If the field type is *SELECT* or *RADIO* than you need to click on options button. Following screen will popup where you need to add the sub-fields



- If the field type is *Button* than you need to click on plus button on the right top corner of screen to add a button and give all details. After that click on *events* button on lower right corner and add the description like Event Name , Function Name, Sub screen Name. These Buttons are created for *Sub Screen* and *query* buttons.

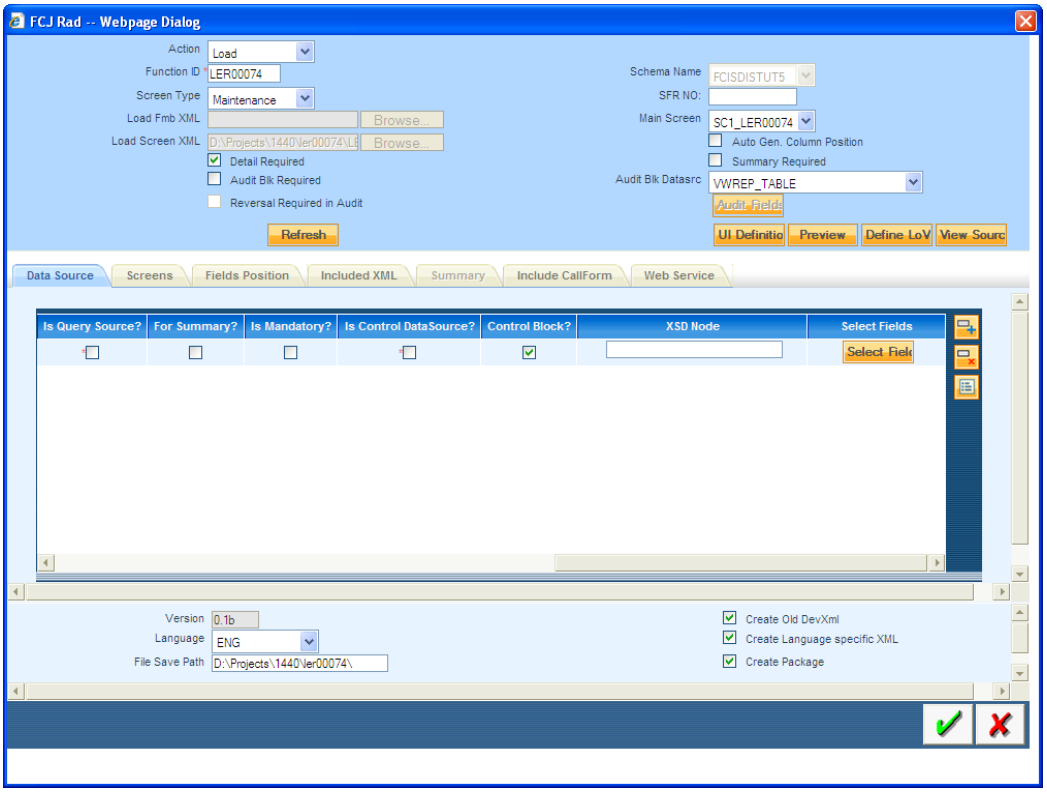


- Also, some *UI fields* such as Description may be required. In case of Query Data sources having some visible components (for example-MIDRATE below) as shown below, a UI field can be defined for the same by first clicking on the plus button on the right corner of screen and than giving the details. Generally UI Fields are not added in Non extensible Open Development since addition of query datasource is allowed in Non Extensible Open Development.

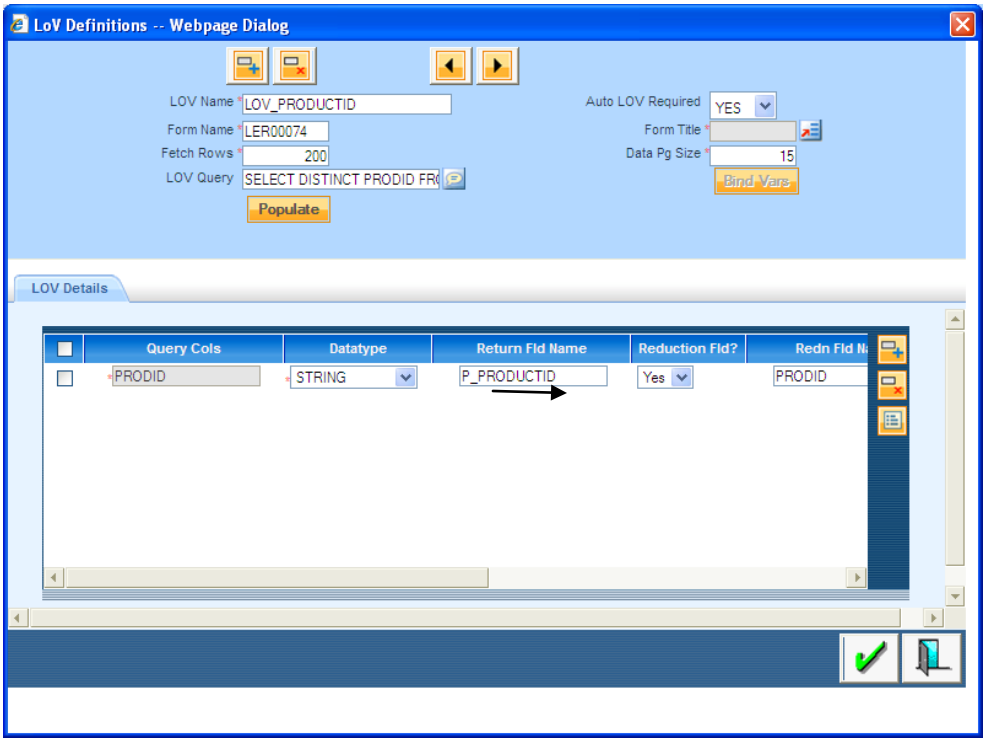


- The above step has to be followed for every datasource and its fields.

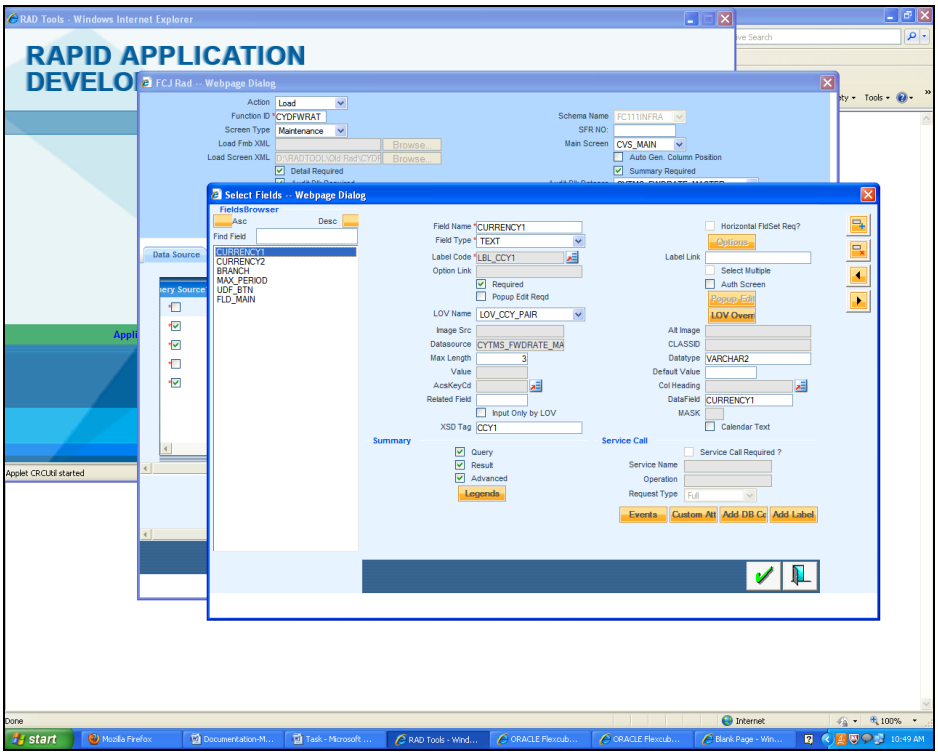
- Click on the *Define LOV* option and another screen will popup.

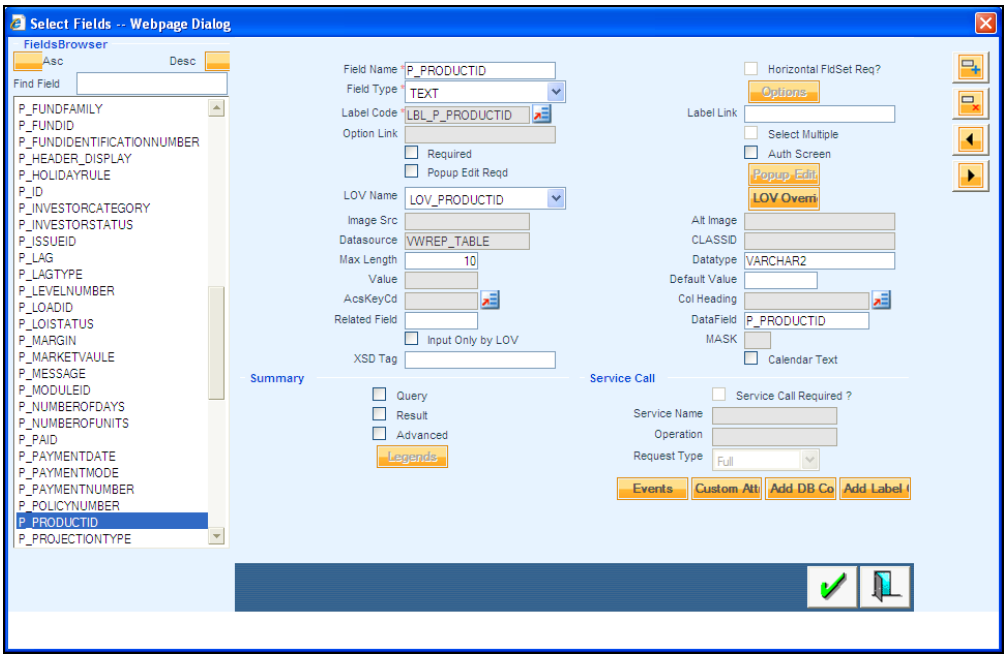


- There you need to enter Lov Name , Lov Query and after entering the details you need to click the *populate* button. There you need to add all the LOv details for the populated fields. You need to even add *Bind Variables* for Lov .

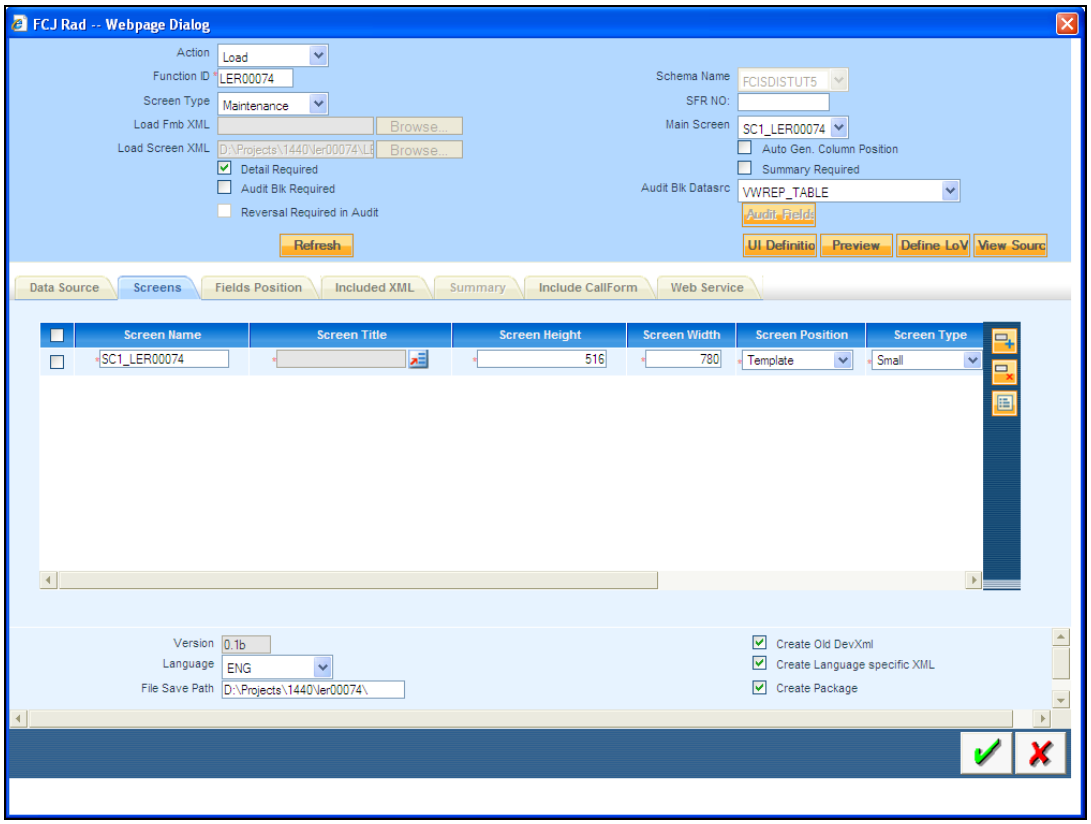


- Similarly you have to add all the Lov which you have. The various LOV entries in the Open Development can be added by using the arrow keys present on the top of the screen shown below.
- After adding the Lovs you need to again go to data source tab and click on field button for each datasource . There you need to add Lov name for fields which are defined as Lov.




Select Fields -- Webpage Dialog
FieldsBrowser
Asc
Desc
Find Field
P_FUNDFAMILY
P_FUNDID
P_FUNDIDENTIFICATIONNUMBER
P_HEADER_DISPLAY
P_HOLIDAYRULE
P_ID
P_INVESTORCATEGORY
P_INVESTORSTATUS
P_ISSUEID
P_LAG
P_LAGTYPE
P_LEVELNUMBER
P_LOADID
P_LOISTATUS
P_MARGIN
P_MARKETVAULE
P_MESSAGE
P_MODULEID
P_NUMBEROFDAYS
P_NUMBEROFUNITS
P_PAID
P_PAYMENTDATE
P_PAYMENTMODE
P_PAYMENTNUMBER
P_POLICYNUMBER
P_PRODUCTID
P_PROJECTIONTYPE
Field Name
P_PRODUCTID
Field Type
TEXT
Label Code
LBL_P_PRODUCTID
Option Link
Required
Popup Edit Reqd
LOV Name
LOV_PRODUCTID
Image Src
Datasource
VWREP_TABLE
Max Length
10
Value
AcsKeyCd
Related Field
Input Only by LOV
XSD Tag
Horizontal FldSet Req?
Options
Label Link
Select Multiple
Auth Screen
Popup Edit
LOV Overri
Alt Image
CLASSID
Datatype
VARCHAR2
Default Value
Col Heading
DataField
P_PRODUCTID
MASK
Calendar Text
Summary
Query
Result
Advanced
Legends
Service Call
Service Call Required ?
Service Name
Operation
Request Type
Full
Events
Custom Att
Add DB Co
Add Label

- You need to add screen name and its properties under this tab. Different type of possible screens are *main* screen , *summary* screen and *sub* screens.



Click on Tab button on the screen tab to define the sections and partitions required for a screen.

- *Section* : horizontal division of screen.
- *Partition* : Vertical division of screen.

Tab Type :

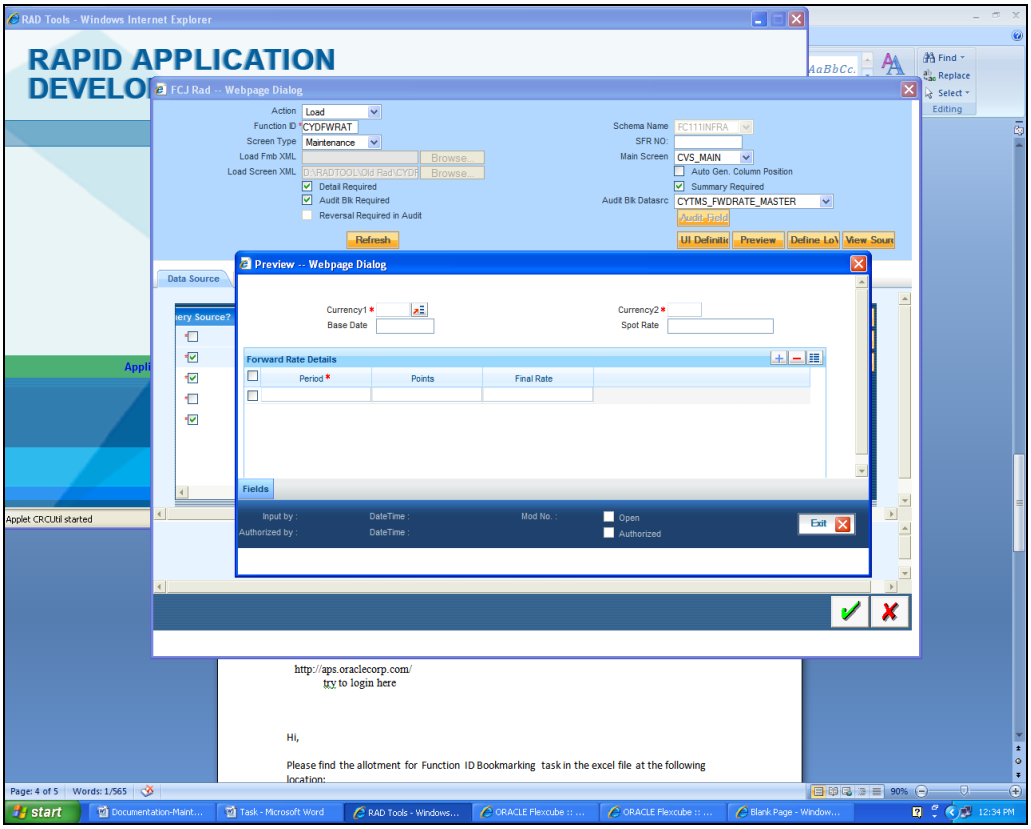
- Normal: For centre portion of screen.
- Header: For Upper portion of screen.
- Footer: For lower portion of screen.

If you are not going for default *Tab* populated than we need to add at least two tabs -Header and Normal .

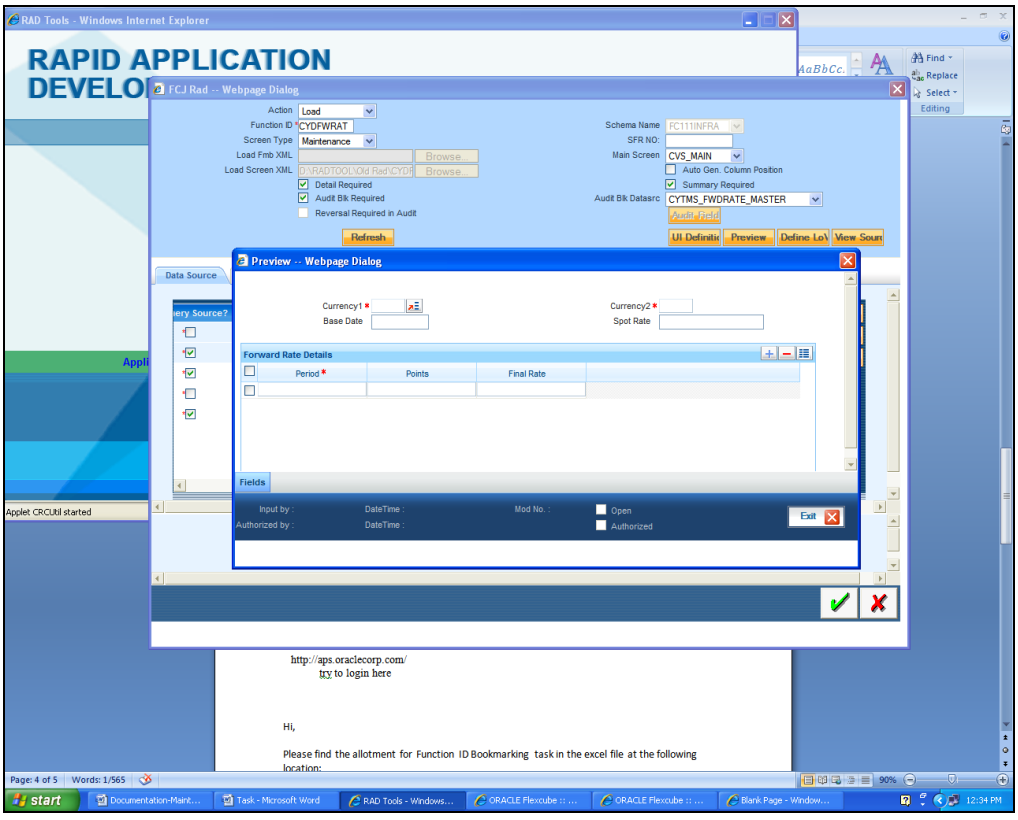
Screen Position:

- Template: For *Main* and *Sub* screens.
- Absolute: Only For *Summary* Screen.

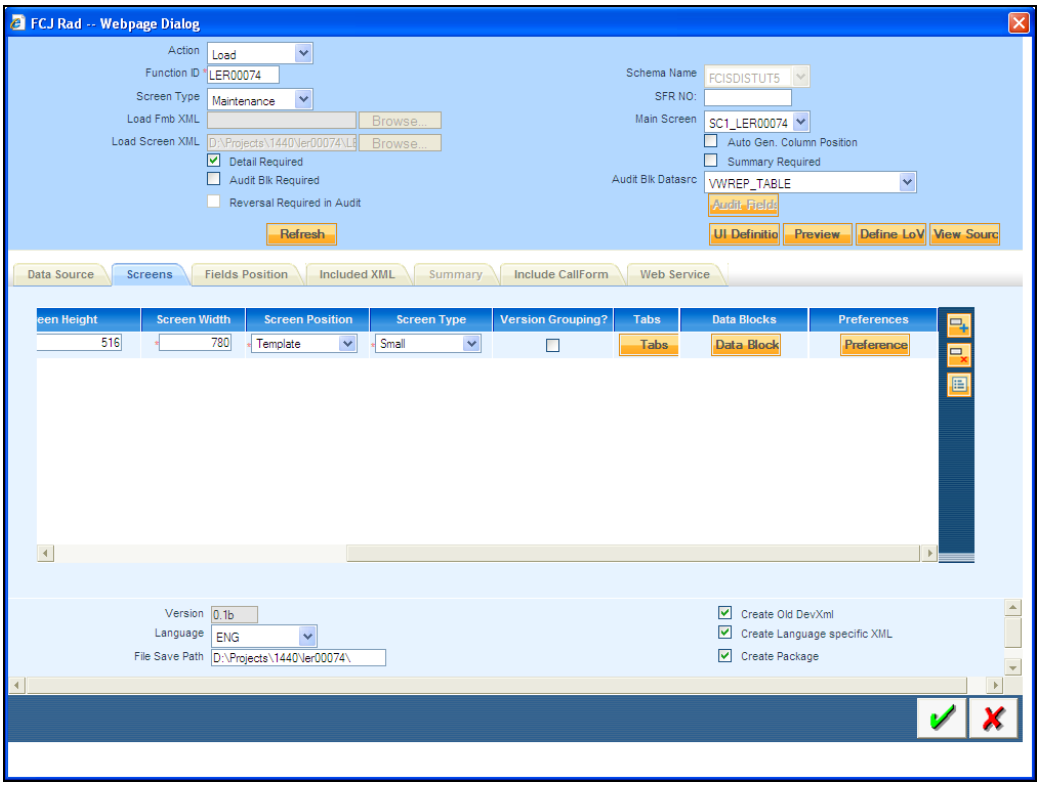
In order to design the screen, we require the addition of sections. It can be seen from the preview below that we require two *sections* for this screen indicated in parenthesis.



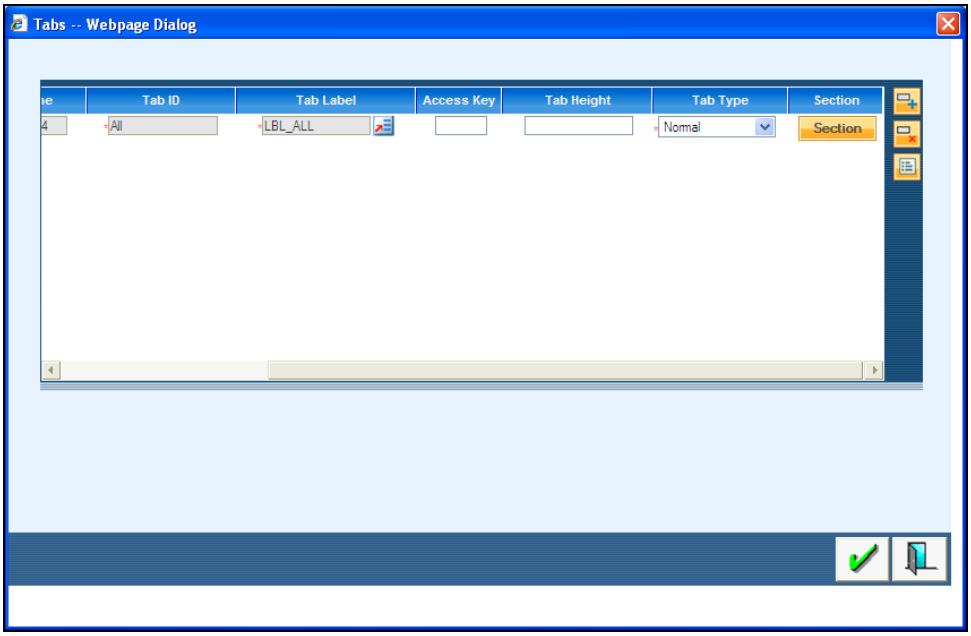
- We also require two *partitions* for the first section as indicated by the arrows.



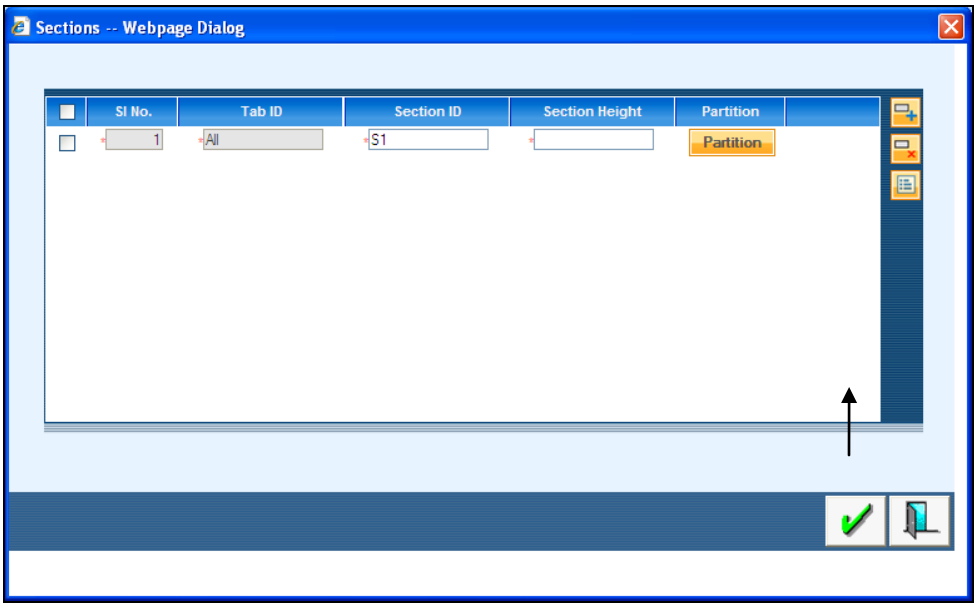
- The above information about screen layout can also be designed in the Open Development Tool by going to the screens tab and clicking on the "*Tabs*" button which is described further.



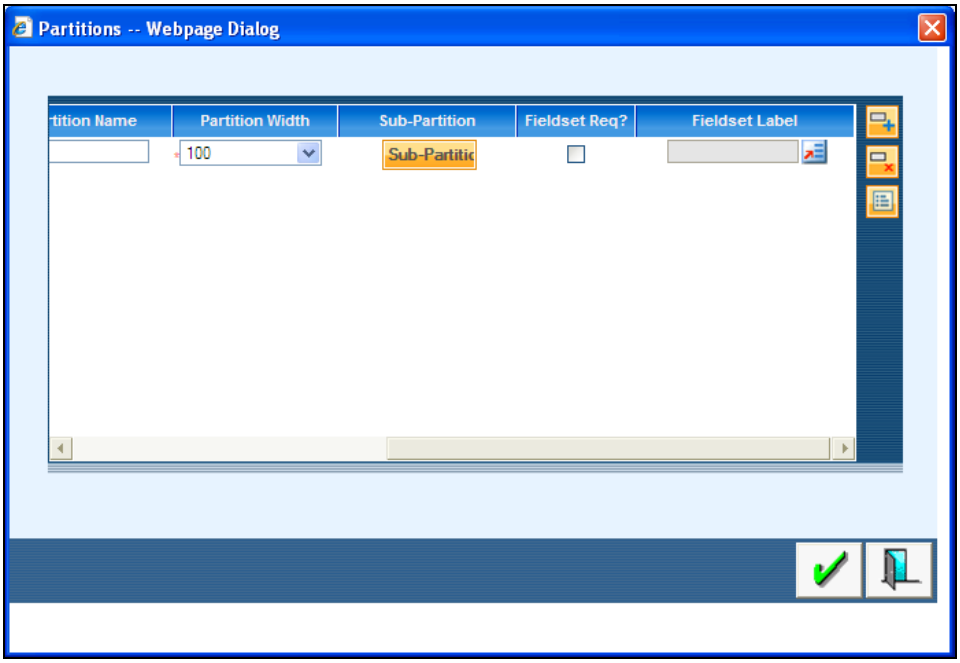
- Add Details of the Tab Added and after that click on *sections*.



- Add Number of Sections and after that click on *Partition* button.

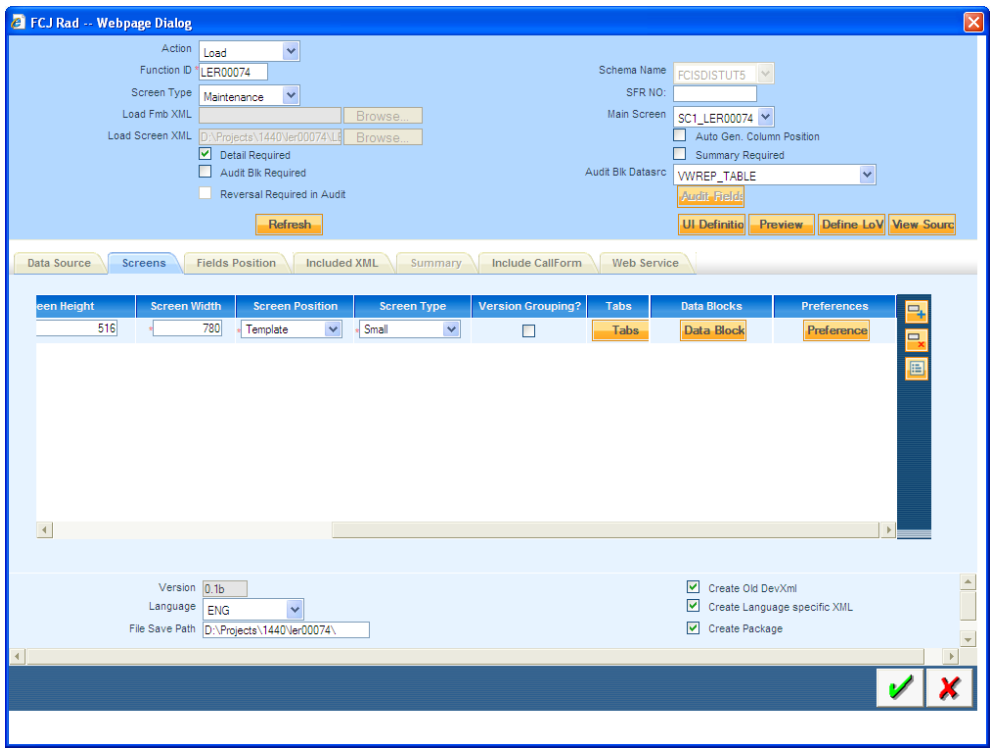


- Add Number of Partition and after that click on *Sub Partition* Button.

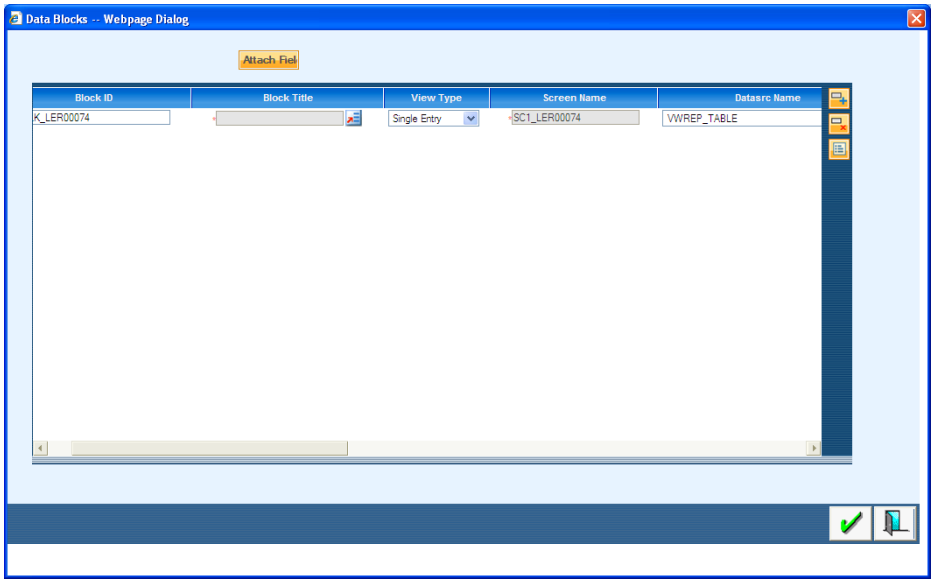


- Layout of screen is designed.
- Same steps has to be carried out for designing layout of all screens.

- Click on The *data block* button under screen tab.



- Define *data blocks* and all its details and add the corresponding datasource for data block, view type, screen name and give the tab name, section , partition for the required fields.

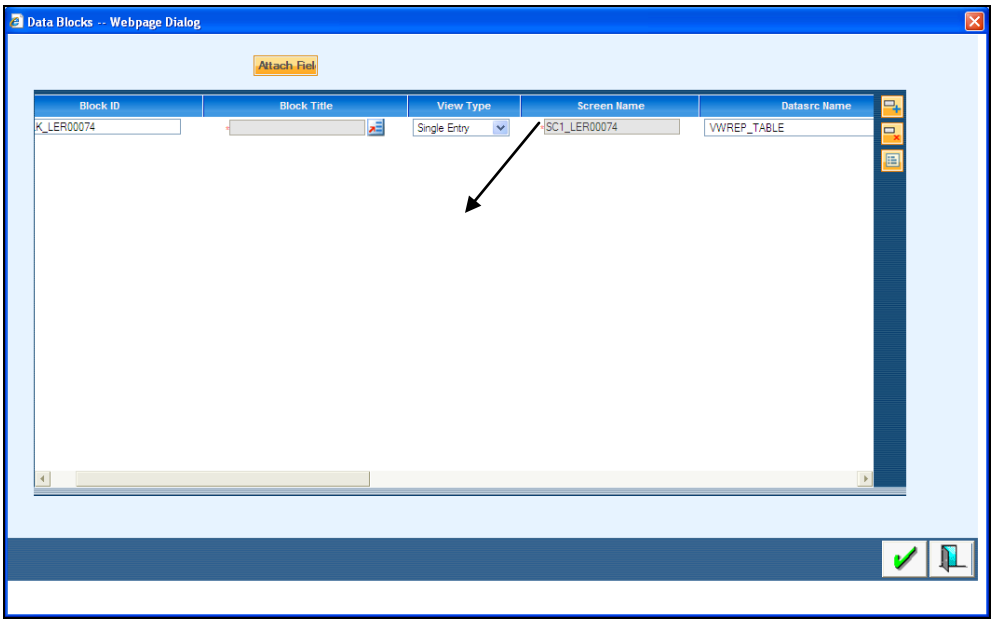


View Type:

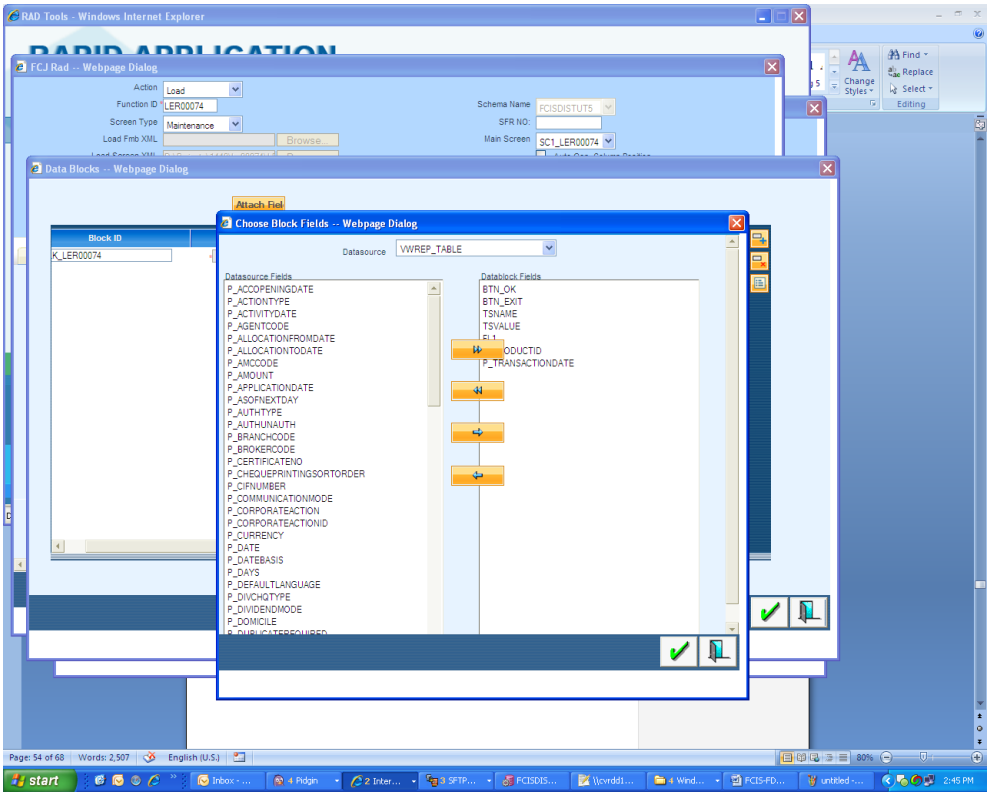
- Single Entry : For One –One Datasources

- Multiple entry : For One-Many Datasources.

Click on *Attach field* button to add fields to the data block

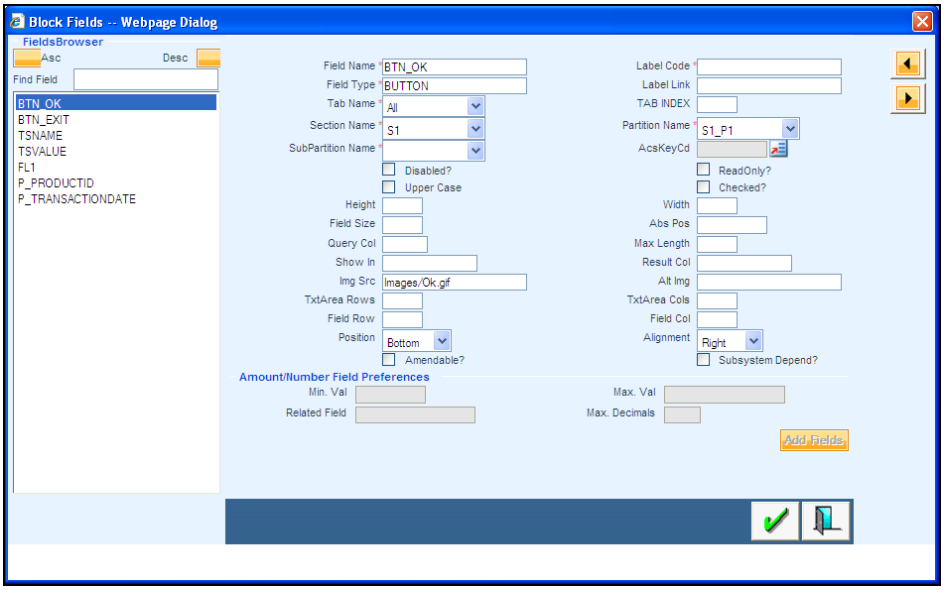


- From the list of fields you can select the required fields for data blocks.



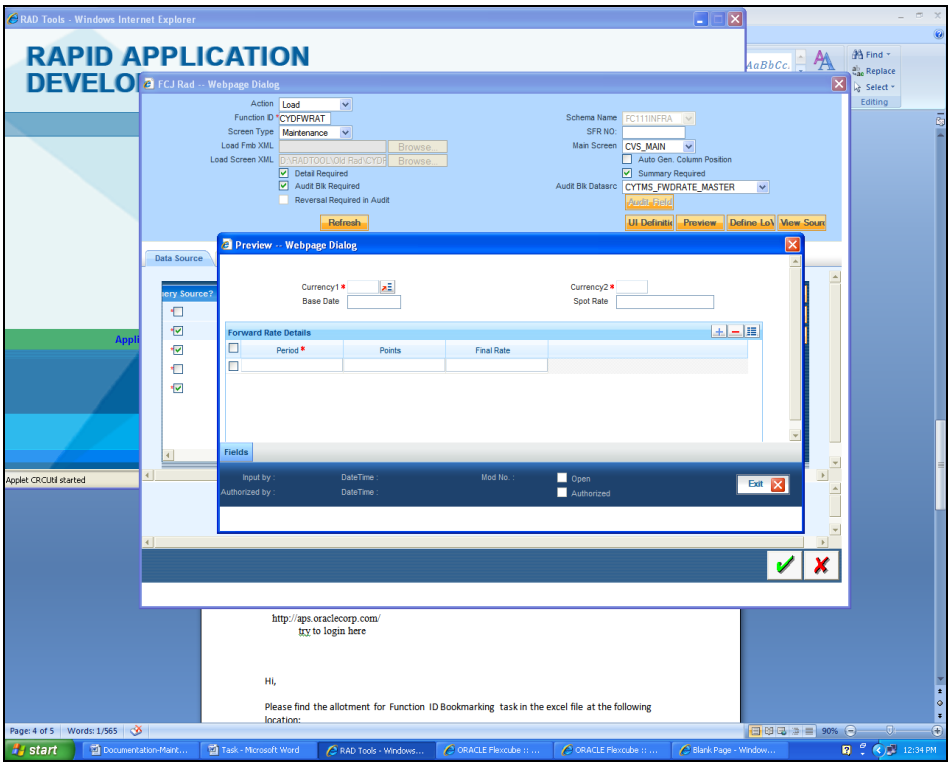
- After that click on *field properties* button to add details .

- Give Tab name, Section, Partition and Sub partition for all fields. You need to also tick the check boxes like Amendable, Read only, Upper case depending on your requirement for all fields. Field size and Max Length also has to be given.

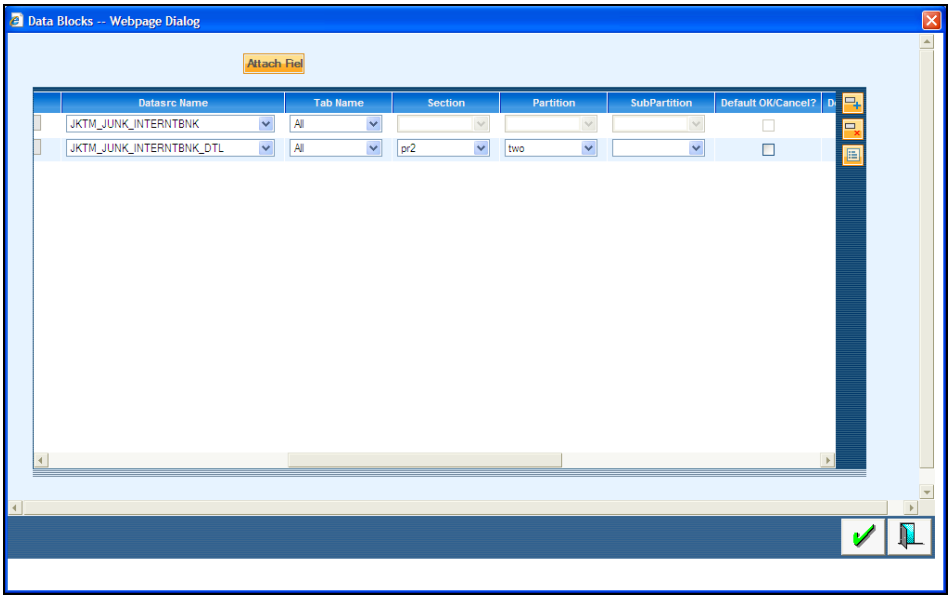


9. Field Sets

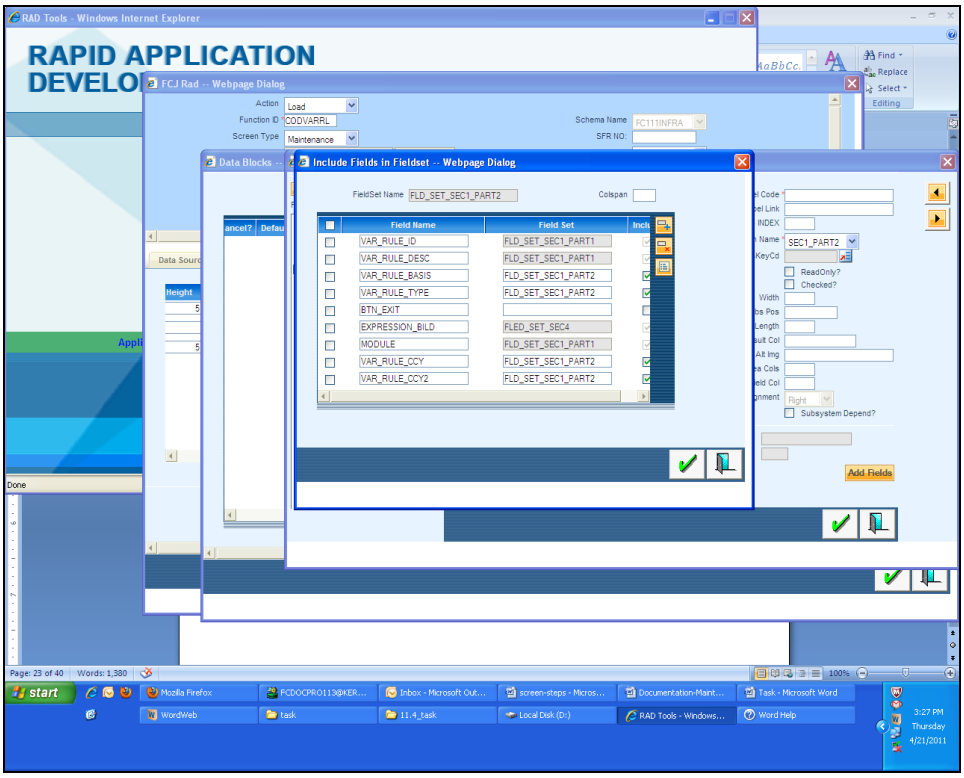
- The various *fieldsets* that are required have been pointed out in the screen below. For this example, we require three fieldsets named FST_1, FST_2 and FST_3.



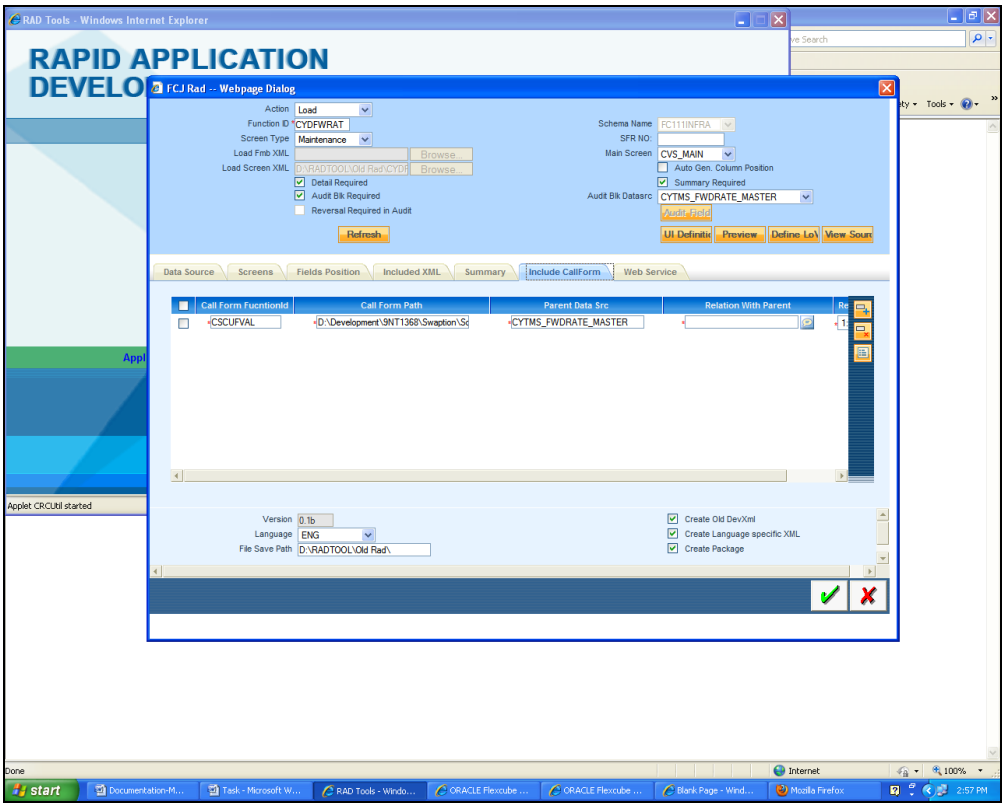
- Fieldsets has to created only for one-one datasource. Fieldsets are not required for one-many datasource.
- For one-many you need to give the tab, section, partition and sub partition details in the block screen itself.



- Click Add fields on the lower right corner of screen and than a window will popup where you can add those columns which you want to group together in one field set, keeping in mind the vertical order in which they will appear on screen.
- You need to add Tab name, Section Name, Partition Name for 1-1 type of datasources fields inside the datablocks .

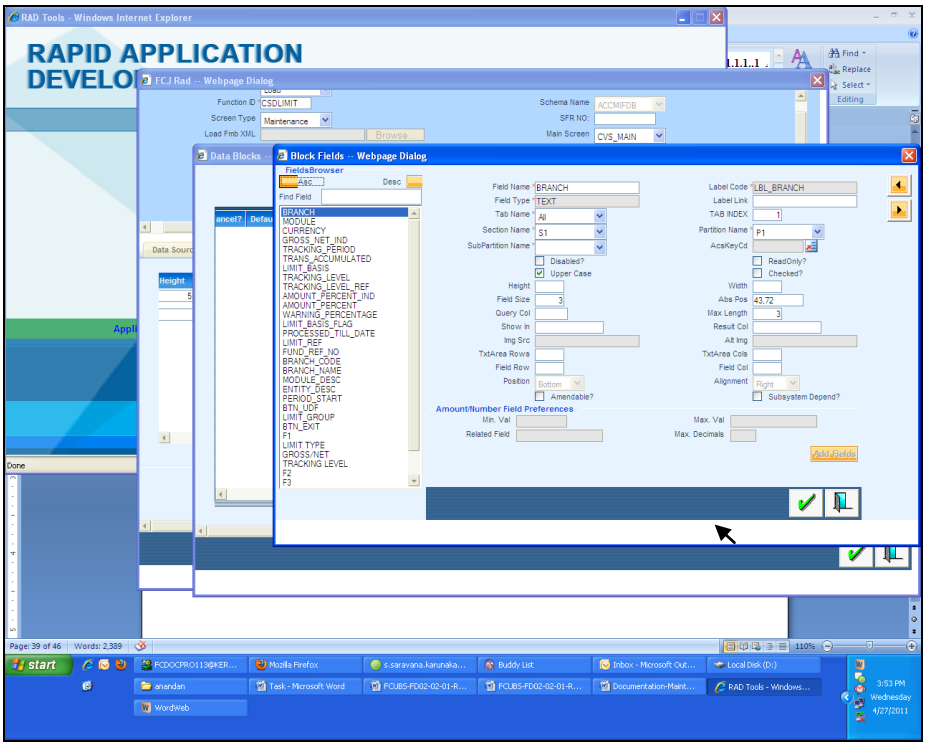


- The field button that appears on the lower left corner of preview screen is *callform*. Add the details of callform under this tab.

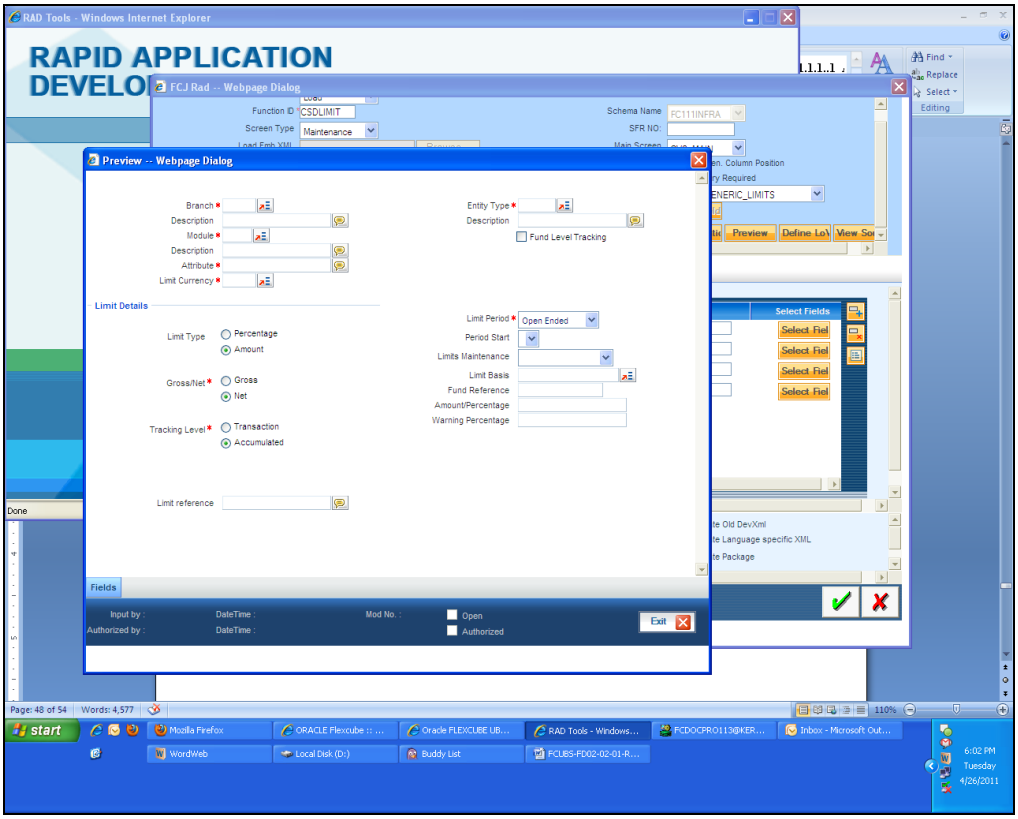


11. Actions

- In Non Extensible Open Development for actions when you go to datablock fields there you need to check the box of *Amendable*.

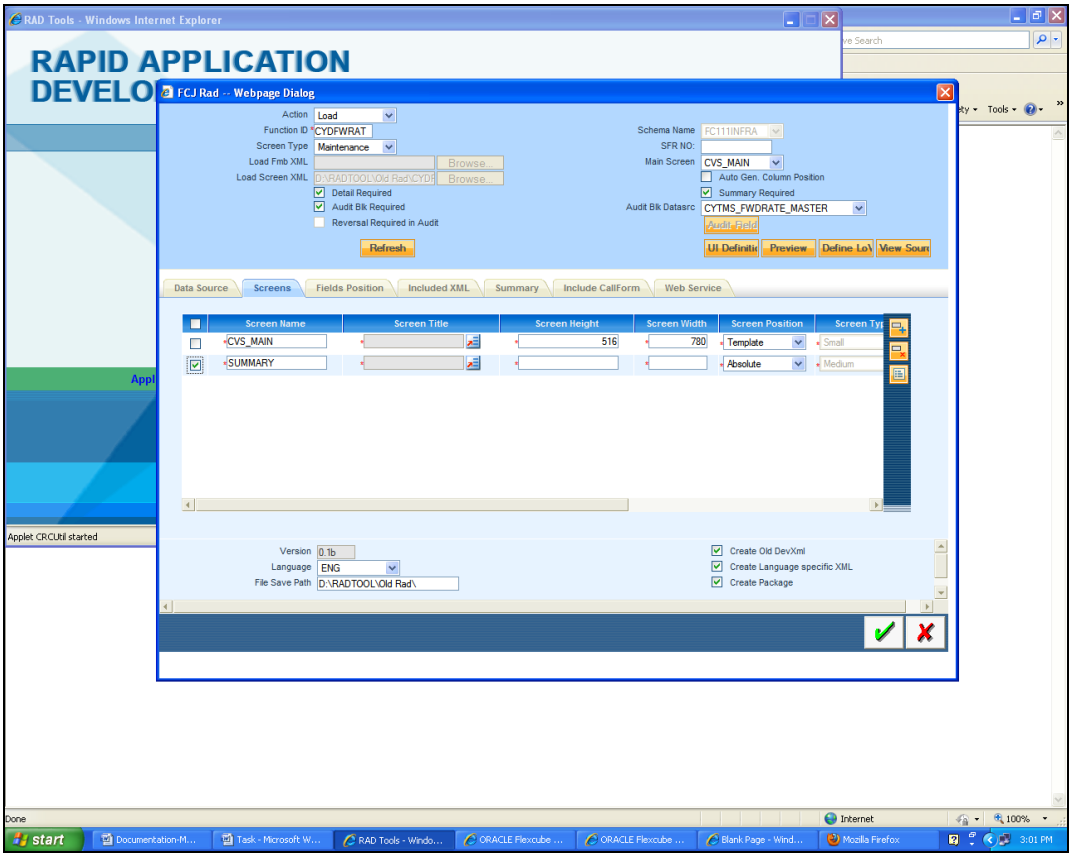


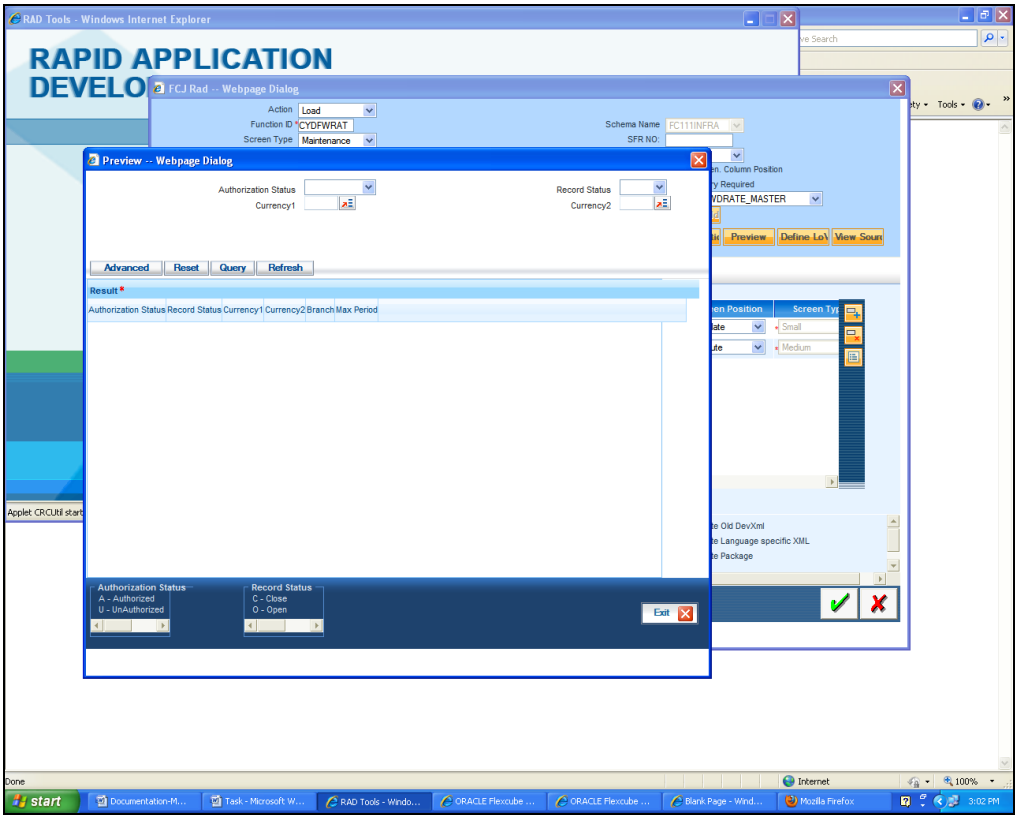
- This is the final preview of required screen.


RAD Tools - Windows Internet Explorer
RAPID APPLICATION
FCJ Rad -- Webpage Dialog
Function ID
CSDLIMIT
Screen Type
Maintenance
Schema Name
FC111INFRA
SFR NO:
Preview -- Webpage Dialog
Branch
Description
Module
Attribute
Limit Currency
Entity Type
Fund Level Tracking
Limit Details
Limit Type
Percentage
Amount
Gross/Net
Gross
Net
Tracking Level
Transaction
Accumulated
Limit reference
Limit Period
Open Ended
Period Start
Limits Maintenance
Limit Basis
Fund Reference
Amount/Percentage
Warning Percentage
Fields
Input by :
DateTime :
Mod No. :
Open
Authorized by :
DateTime :
Authorized
Exit
Preview
Select Fields
Done
Page: 48 of 54
Words: 4,577
110%
start
Mozilla Firefox
ORACLE Flexcube :: ...
Oracle FLEXCUBE UB...
RAD Tools - Windows...
Inbox - Microsoft Out...
WordWeb
Local Disk (D:)
Buddy List
6:02 PM
Tuesday
4/26/2011

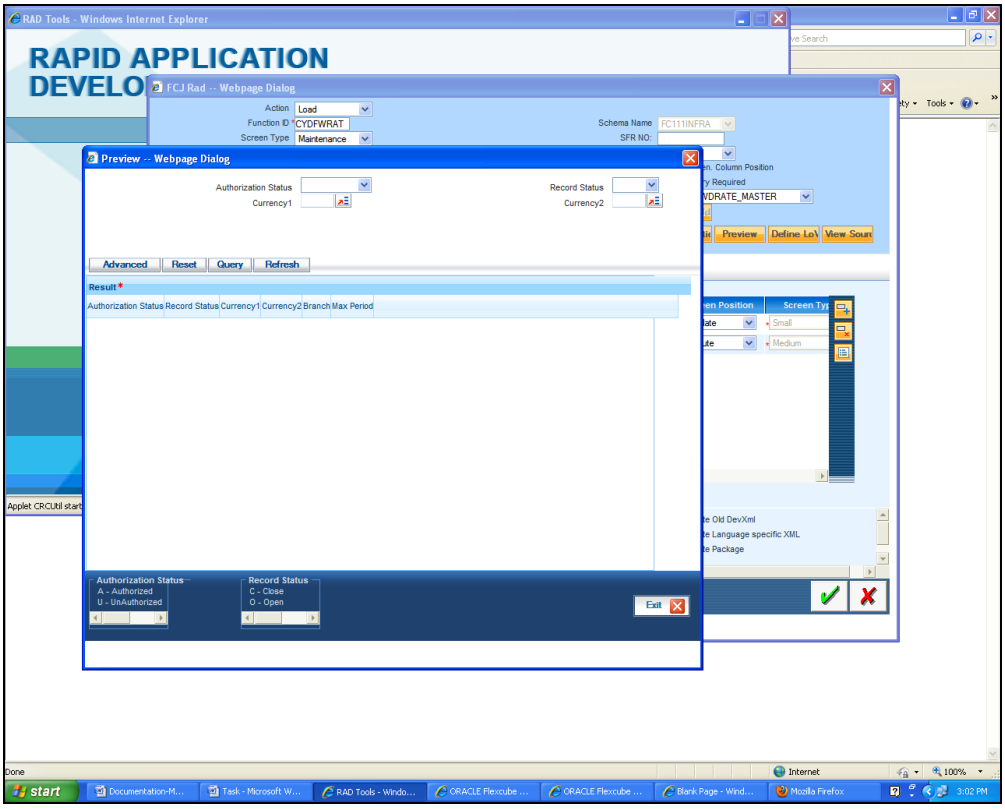
12. Summary

- The *summary* screen present in the Open Development can be accessed and selected through the Screens tab and then previewed using the Preview button.



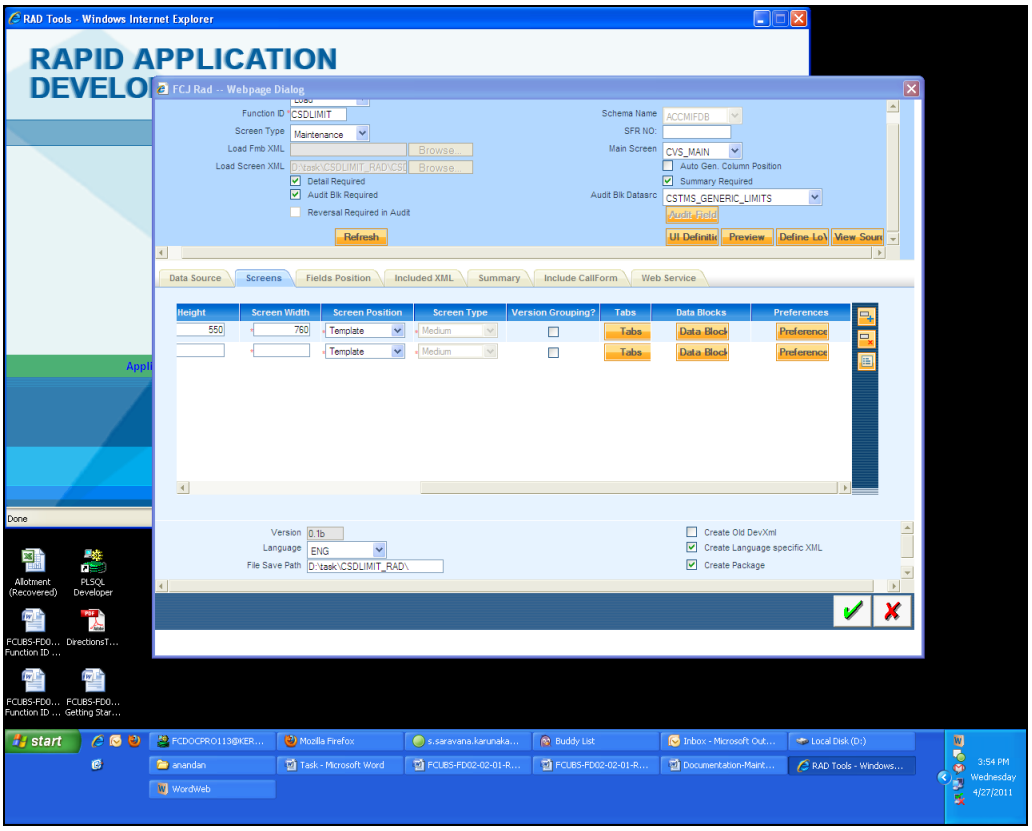


- Note that the fields indicated in the summary preview below are *query* fields and have been indicated in the screen below.



13. Non extensible Open Development File Generation

- Click on the green tick button on the bottom to *save* and *generate* the files.



Following files will be generated:

- SPC
- SQL
- Inc
- JS
- UIXML

Notification Development

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