

Controller Extension in OAF

Set the values of following profiles to enable Personalization Page link in OAF Pages

Profile Name	Value
FND: Personalization Region Link Enabled	Yes
Personalize Self-Service Defn	Yes
Disable Self-Service Personal	No

Oracle does not recommend that customers extend controller objects associated with regions or webbeans in shipped E-Business Suite product pages.

Controller class (oracle.apps.fnd.framework.webui.OAControllerImpl) methods should effectively be considered private, since their implementation is subject to change. Controller extensions are therefore not considered to be durable between upgrades.

If it is absolutely essential to handle custom form submit events on a shipped product page, processFormRequest() is the only method that should be overridden in a controller class, although the risks outlined above still apply.

Let us try to Extend Controller in OAF Page -

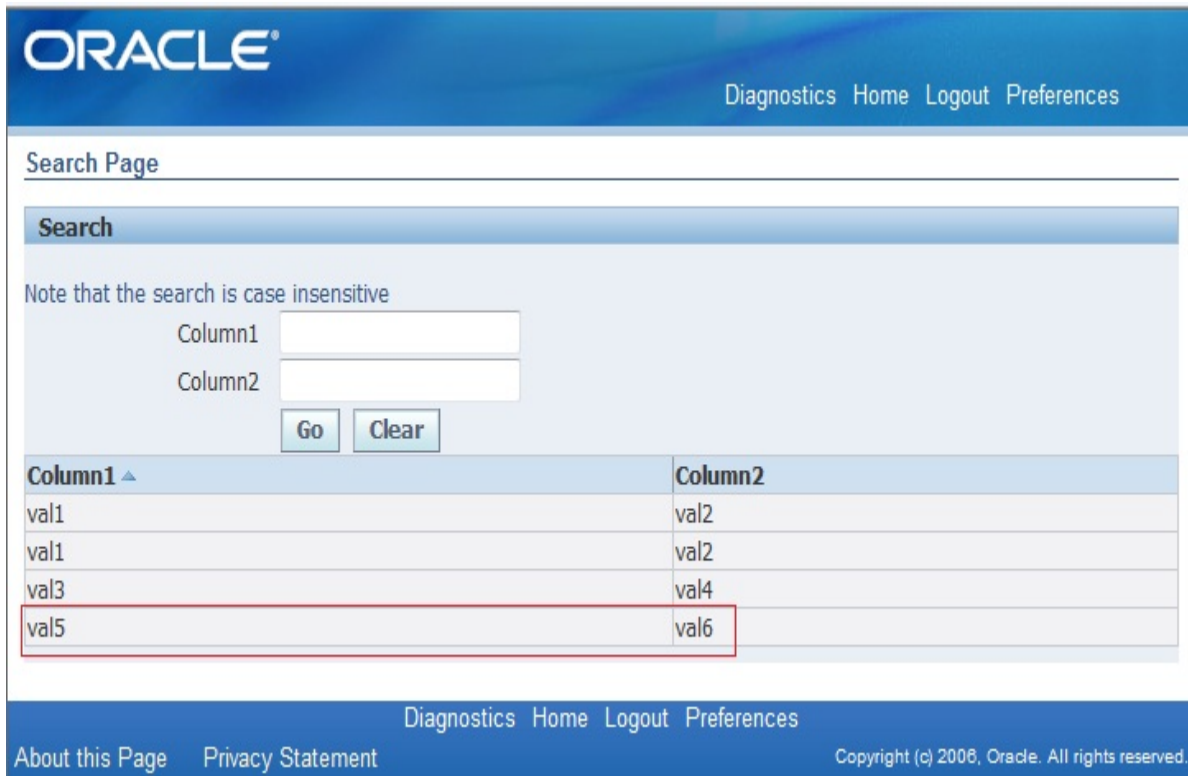
The screenshot displays an Oracle OAF page with a blue header containing the Oracle logo and navigation links: Diagnostics, Home, Logout, Preferences, and Personalize Page. Below the header, the page title is "Search Page" and there is a link "Personalize Query: (QueryRN)". The main content area features a "Search" section with a note: "Note that the search is case insensitive". This section includes two input fields labeled "Column1" and "Column2", and two buttons: "Go" and "Clear". Below the search section is a link "Personalize Table: (ResultTable)". A table is displayed with two columns: "Column1" and "Column2". The table content shows "No search conducted." in the "Column1" cell. The footer of the page contains navigation links: "About this Page", "Privacy Statement", and "Personalize Page", along with the copyright notice: "Copyright (c) 2006, Oracle. All rights reserved."

In this exercise we are going to extend CO of SearchPG.

Now we will extend this newly created CO under this exercise.

The purpose of this exercise is to modify the VO query of results table.

Now when we click on **Go** button all the records are displaying in the results table and our **OBJECTIVE** is to bind the VO query of results table in such a way that in result **Column1** value **val5** and **Column2** value **val6** should not come as result on click Go button



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Diagnostics Home Logout Preferences

Search Page

Search

Note that the search is case insensitive

Column1

Column2

Column1 ▲	Column2
val1	val2
val1	val2
val3	val4
val5	val6

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Now for knowing which controller to extend we click on "About This Page" Link and select Expand All. Here we can see the Name of the controller that we need to extend

Page Definition				
Expand All Collapse All				
Focus Name	Controller	Application Module	View Object	View Attribute
[-] pageLayout: Search Page Window	SearchCO	SearchAM		
rawText: <noscript>JavaScript enabled browser re...				
rawText: <noscript>JavaScript enabled browser re...				
rawText: <noscript>JavaScript enabled browser re...				
[-] stackLayout				
[-] stackLayout: (QueryRN)				
[-] stackLayout				
[-] header: Search				
[-] stackLayout				
[-] tableLayout				
[-] rowLayout				
[-] cellFormat				
[-] tableLayout				
[-] rowLayout				
styledText: Note that the search is case insensitive				
[-] messageComponentLayout: (ResultTable_mclrbs_queryRN)				
messageTextInput: Column1				
messageTextInput: Column2				
[-] messageLayout				
submitButton: Go				
submitButton: Clear				
[-] table: (ResultTable)			SearchVO1	
messageStyledText: Column1			SearchVO1	Column1
messageStyledText: Column2			SearchVO1	Column2
sortableHeader: (OASH_44)				
image: Oracle Logo				
link: About this Page				

1. Create a New Workspace and Project

File > New > General > Workspace Configured for Oracle Applications

File Name - MahiCOExtensionDemo

Automatically a new OA Project will also be created

Project Name -- COExtensionDemo

Default Package -- Mahi.oracle.apps.fnd.coextensiondemo.webui

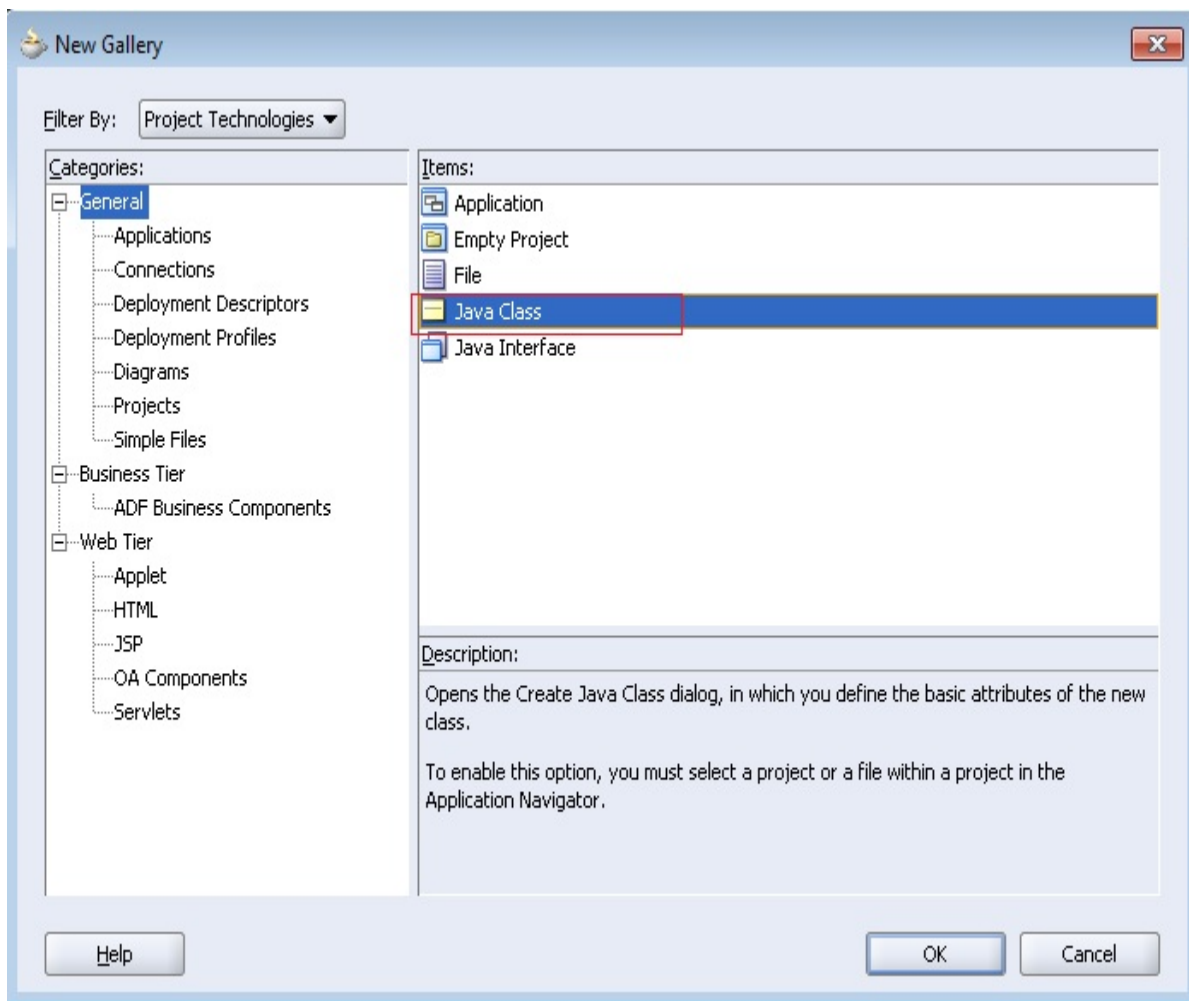
2. Create a New Java Class

Right Click on COExtensionDemo > New > General > Java Class

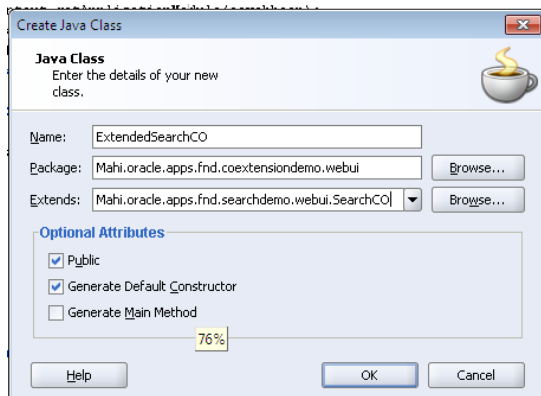
Name -- ExtendedSearchCO

Package -- Mahi.oracle.apps.fnd.coextensiondemo.webui

Extends -- Mahi.oracle.apps.fnd.searchdemo.webui.SearchCO



Note -- Give the Name of your Extended Class give its package path and in the extends property select base class



3. Write below logic in ExtendedSearchCO Java Class

```
package Mahi.oracle.apps.fnd.coextensiondemo.webui;
```

```
import Mahi.oracle.apps.fnd.searchdemo.webui.SearchCO;
```

```
import oracle.apps.fnd.framework.webui.OAPageContext;
```

```
import oracle.apps.fnd.framework.webui.beans.OAWebBean;
```

```
import oracle.apps.fnd.framework.OAApplicationModule;
```

```
import oracle.apps.fnd.framework.webui.beans.layout.OAQueryBean;
```

```
import Mahi.oracle.apps.fnd.searchdemo.server.SearchVOImpl;
```

```
public class ExtendedSearchCO extends SearchCO  
{  
    public ExtendedSearchCO ()  
    {  
    }  
}
```

```
public void processFormRequest(OAPageContext pageContext, OAWebBean webBean)  
{  
    super.processFormRequest(pageContext, webBean);  
    OAApplicationModule am = pageContext.getApplicationModule(webBean);  
    OAQueryBean queryBean = (OAQueryBean)webBean.findChildRecursive("QueryRN");
```

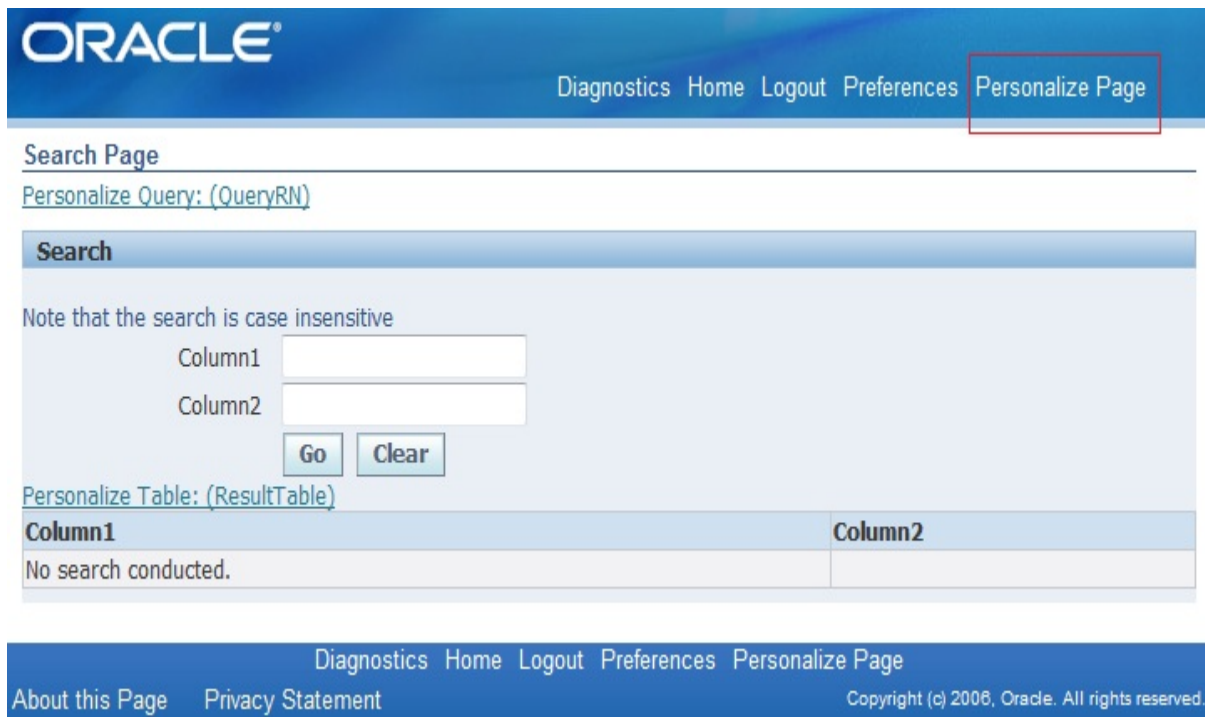
```
    //Capturing Go Button ID  
    String go = queryBean.getGoButtonName();
```

```
    //If its Not NULL which mean user has pressed "Go" Button  
    if(pageContext.getParameter(go)!=null)  
    {  
        // Setting whereClause at Runtime to restrict the query  
        SearchVOImpl vo = (SearchVOImpl)am.findViewObject("SearchVO1");  
        vo.setWhereClause(null);  
        vo.setWhereClause("Column1 <>:1 AND Column2 <>:2");  
        vo.setWhereClauseParam(0,"val5");
```

```
vo.setWhereClauseParam(1,"val6");
}
}
}
```



















4. Attach new controller to SearchPG through personalization

Click on Personalize Page link on top right hand side of your page



The screenshot displays the Oracle Search Page. At the top, a blue navigation bar contains the Oracle logo on the left and the links "Diagnostics Home Logout Preferences Personalize Page" on the right. The "Personalize Page" link is highlighted with a red rectangular box. Below the navigation bar, the page title "Search Page" is shown, followed by a link "Personalize Query: (QueryRN)". A search section titled "Search" contains the instruction "Note that the search is case insensitive" and two input fields labeled "Column1" and "Column2". Below these fields are "Go" and "Clear" buttons. Underneath the search section is a link "Personalize Table: (ResultTable)". A table with two columns, "Column1" and "Column2", is displayed below. The "Column1" cell contains the text "No search conducted." and the "Column2" cell is empty. At the bottom of the page, a blue footer bar contains the links "About this Page Privacy Statement" on the left and "Diagnostics Home Logout Preferences Personalize Page" on the right, along with the copyright notice "Copyright (c) 2008, Oracle. All rights reserved."

Click on Complete View -> Expand All -> Click on personalize icon next to Page Layout

Personalization Structure									
<input type="radio"/> Simple View <input checked="" type="radio"/> Complete View Expand All Collapse All									
									
Focus Name	Shown	User Personalizable	Personalize	Reorder	Create Item	Update Item	Delete Item	Seeded	User Views
 Page Layout: Search Page Window	Yes								
  Query: (QueryRN)	Yes								
  Table: (ResultTable)	Yes	Yes							∞
Message Styled Text: Column1	Yes	Yes							
Message Styled Text: Column2	Yes	Yes							
  Corporate Branding									
Image: (corporateBrandingImage)	Yes								

Now at site level give the path of extended controller as we are extending the controller at **SITE LEVEL**

Mahi.oracle.apps.fnd.coextensiondemo.webui.ExtendedSearchCO

By default it will come as Inherit

Click Apply -> Return to Application

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Search Page

[Personalize Query: \(QueryRN\)](#)

Search

Note that the search is case insensitive

Column1

Column2

[Personalize Table: \(ResultTable\)](#)

Column1	Column2
No search conducted.	

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Click Go

Note - Record with **Column1** value **val5** and **Column2** value **val6** is not coming in result

The screenshot shows the Oracle search interface. At the top, the Oracle logo is on the left, and navigation links for 'Diagnostics', 'Home', 'Logout', 'Preferences', and 'Personalize Page' are on the right. Below the header, the page title is 'Search Page'. A link 'Personalize Query: (QueryRN)' is present. A search box titled 'Search' contains the text 'Note that the search is case insensitive'. Below this, there are two input fields labeled 'Column1' and 'Column2', followed by 'Go' and 'Clear' buttons. Below the search box, a link 'Personalize Table: (ResultTable)' is shown. A table with two columns, 'Column1' and 'Column2', displays three rows of data: (val1, val2), (val1, val2), and (val3, val4). At the bottom, the same navigation links as the top are present, along with 'About this Page' and 'Privacy Statement' on the left, and 'Copyright (c) 2006, Oracle. All rights reserved.' on the right.

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Search Page

[Personalize Query: \(QueryRN\)](#)

Search

Note that the search is case insensitive

Column1

Column2

[Personalize Table: \(ResultTable\)](#)

Column1 ▲	Column2
val1	val2
val1	val2
val3	val4

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