Oracle ADF, WebCenter Tech Tips: I Came, I Learned, I Share....

This blog shares some interesting use cases I encountered along with some standards on ADF, Webcenter (FMW).

Thursday, June 14, 2012

ADF Coding Standards & Check points

For any **ADF** Java code, **Model** and **UI layer**, here are few points to make code better from writing from performance and standard point of view, that comes from our coding practice and experience.

There is a set of checkpoints we should check before source controlling any changes.This ensures making code better, robust, standards compatible and more performant.

JSFF/JSPX code - Check points

- Make sure, you have used Resource Bundle where ever its required.
- For Bounded taskflows, make sure to use activation as **conditional/deferred** (Not Immediate) and use active condition EL expression.
- Id of the component, length should be <= 7.
- Make sure, you have removed **unwanted PageDef** Bindings.
- If af:popup is used, make sure to set the contentDelivery to "**LazyUncached**".
- If using af:contextInfo, make sure the af:dialog has modal="**false**".
- If using af:contextInfo, make sure the af:showPopupBehavior has triggerType="**contextInfo**".
- If using af:popup from af:commandLink, make the **partialSubmit to true** for af:commandLink.
- If using af:popup. make childCreation property to "**deferred**" so that only when the Popup is launched the WebBean hierarchy would get created in server memory.
- Run JAudit for the file you make changes, from **Menu->Run->JAudit** file.
- Right click->**Reformat** before checkin.
- If using JavaScript, can you think to avoid that.
- jsff/jspx files must reside under **/page** package.
- Taskflows must reside under **/flow** package.
- Menu model xml files must reside under **/menu** package.
- In Case of deriving the Url parameters, preferably use the following syntax to derive declaratively *#{facesContext.externalContext.requestParameterMap['Empno']}* (Empno is url parameter)

Any Java Code - Check points

- Managed Bean class name should end with "**Bean**".
- Don't use **SOP** statements.
- New methods introduced, make sure they are modular so that they can

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Umesh Agarwal

An Oracle Application Development Framework 11g Certified Implementation Specialist and Oracle Certified Professional Java SE7 Programmer.

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Select/Deselect All check box in a table

Select All/Deselect All check box in a table is a common requirement. This can be implemented in multiple ways. In this blog, I will expla...

How to set classpath in weblogic server

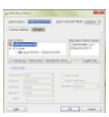
Developers like me might have struggled to figure out a way to set some jars in the CLASSPATH of the weblogic server to access and load t...

Implementation of SelectManyCheckBox component

The selectManyCheckbox component creates a component which allows the user to select many values from a series of checkboxes. ...

Use case of SelectManyListBox component

Oracle ADF is a powerful application framework for building next generation enterprise applications. This blog discusses one interesting ...



How to implement cascading LOV's in search criteria

Cascading LOV is a common requirement. It is dependencies of an LOV on the selected value of another LOV. In this post, I will explain ho...

be JUnitized.

- New Method should always return a value so that they can be JUnitized.
- Add Logger statements to the new methods.
- Make sure you have thrown sufficiently Exceptions.
- Run JAudit for the file you make changes, from **Menu->Run->JAudit** file.
- Make sure to define the Variables with a name starting with small letter.
- Do not use underscore (_) in Variable and Method names.
- Make sure to check for Null condition for all operation that could throw NullPointerException. Ex: CollectionModel, Row, ViewObject, ApplicationModule, String objects etc.
- Right click->**Reformat** before check in.

Application Module(AM) - Check Points

- Make sure to Use **JNDI** datasource instead of **JDBC URL** in the AM configuration(i.e **bc4j.xcfg**)
- Number of occurrences of **createRootApplicationModule**() or ***AMImpl.getInstance**() should be same as **releaseRootApplicationModule**().

Entity Object - Check Points

- Can you convert the code you have just written into Groovy?
- Run JAudit for the file you make changes, from **Menu->Run->JAudit** file.

View Object - Check Points

- Get **SQL explain plan** every time you touches a VO.
- For new Attributes added, make sure you use proper UI hints.
- If creating a New VO, make sure its is based on an EO (Exceptions to be considered).
- If createViewObject calls are present, then make sure, you remove those dynamic ViewObjects.
- If setting **rangeSize() to -1**, restore the rangeSize after you work on that.
- Don't set **ListRangeSize == '-1'** unless the ViewAttribute using the LOV has **CONTROLTYPE** 'choice' or 'radio' or 'default'
- **FetchSize** should be **<= 25** or same as number of rows to be displayed in UI.
- Avoid use of **vo.getRowCount()**
- View Criteria shouldn't have "**null checking**" checkbox checked.
- LOVs shouldn't have "**query automatically**" checked.
- SQL based VOs,should have query optimizer hint set to "**FIRST_ROWS(10)**".
- Always test the application with **ampooling= false** when our bc4j transaction involves any transient VO's.

Most of the above points were shared with me by one of my superior(Amulya Mishra) when I was a novice ADF developer. So, thought this check list will be helpful for other novice developers, like it helped me :)

Posted by Umesh Agarwal at Thursday, June 14, 2012

Labels: Application Module, Entity Object, View Object

1 comment:

subra manian Friday, June 29, 2012

nice points good. i personally appreciate you both the peoples

Implementation of SelectManyShuttle component

The selectManyShuttle provides a mechanism for selecting multiple values from a list of values by allowing the user to move items between...

ADF Coding Standards & Check points

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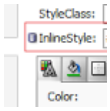
SelectManyCheckBox component in a table

This post is very similar to my earlier post on Implementation of SelectManyCheckBox component. The use case/functionality remains same ....

Format: Date and Number fields in table

To format a date field on UI, use <af:convertDateTime> . For example, if a date has to be displayed in 12-Jan-2012 format, use conv...



Use case of Inlinestyle & ContentStyle

In this post, I will explain a use case of InlineStyle and ContentStyle on ADF UI components. In one of my project I had a requirem...

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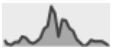

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