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A woman in a blue blazer is sitting at a desk, looking towards a man in a grey suit who is sitting across from her. They appear to be in a meeting. On the desk, there is a laptop, a coffee cup, and some papers. The background is a bright, modern office space with large windows.

Oracle JHeadstart

Superior Productivity in Developing Best Practices
ADF Web Applications

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Technical Director
Oracle Consulting

Agenda

- What is JHeadstart
- Seeing is believing: demo!
- Generated ADF design patterns
- JHeadstart reusable components
- JHeadstart generator templates
- (JHeadstart Forms2ADF Generator)

What is JHeadstart?

- JDeveloper extension automation of ADF development tasks
 - Development Toolkit on top of ADF
 - Builds on ADF Runtime architecture
 - Fully integrates with ADF Design Time
- Takes declarative development to the next level
 - Generates complete ADF applications
 - Like Designer generates Forms, JHeadstart generates ADF apps
 - Implements Oracle Consulting's best practices
- Transforms Oracle Forms into ADF applications

Oracle JHeadstart - Benefits

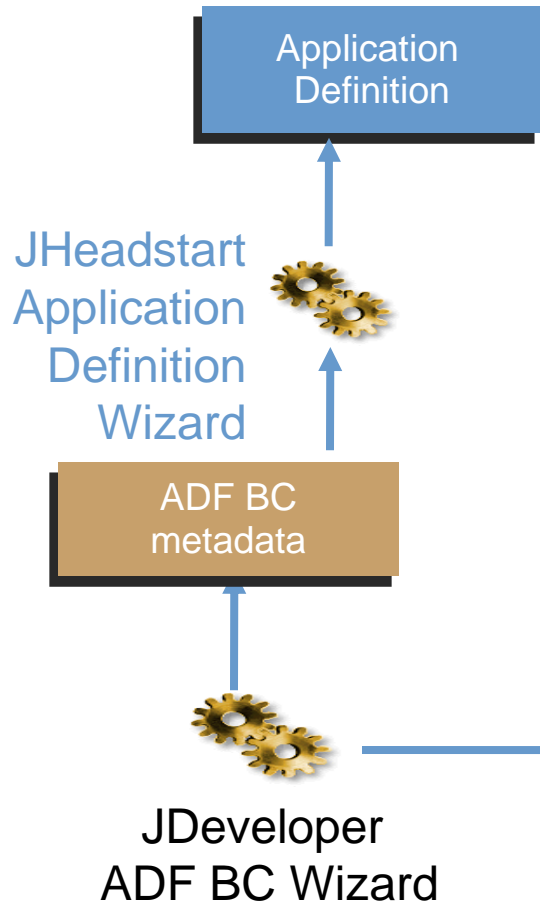
- Best Practices Auto Implemented
 - Increased Developer Productivity
 - Newbie can be productive fast
 - Generation provides consistency
 - Easy maintenance – metadata
 - New UI technology – just generate again!
 - Easy to learn for Forms developers
- Application generated as would have been done when built from scratch
 - Reusable components save months
 - Enables rapid prototyping
 - Prototype evolves in working system
 - Forms2ADF protects investment
 - Standards based

JHeadstart – Main Components

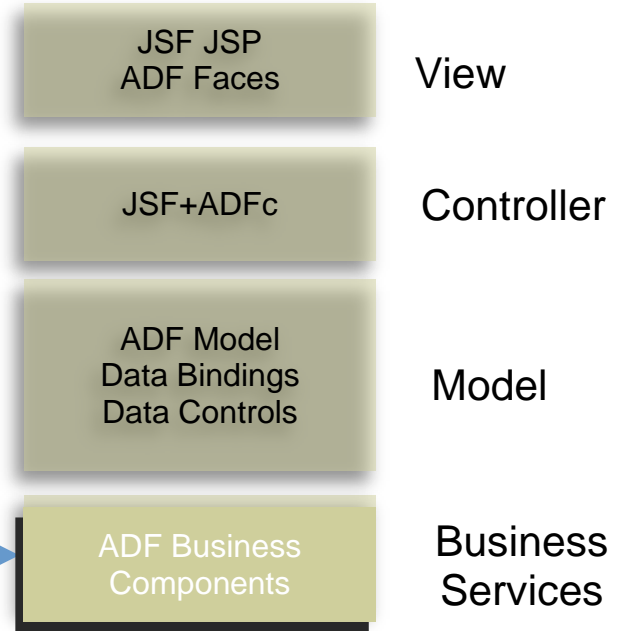
- JHeadstart Application Wizard
 - Creates initial Application Definition based on ADF Business Components
- JHeadstart Application Generator (JAG)
 - Generates best-practice web application based on Application Definition
- JHeadstart Runtime
 - Reusable components for complex functionality (security, menu, flexfield, NLS)
 - Auto-implements host of best practices
- JHeadstart Forms2ADF Generator
 - Create fully-functional ADF app based on forms definitions
- JHeadstart Developer's Guide

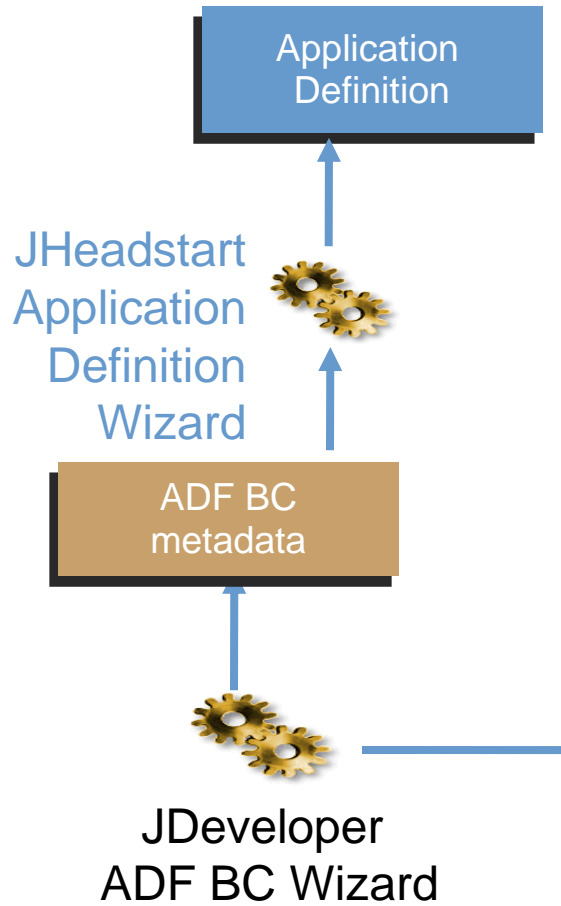
JHeadstart Application Generator (JAG)

- Generates multiple ADF Faces pages and fragments
- Generates (un)bounded task flows
- Generates page definitions (data bindings)
- Does NOT generate any Java code, only XML!
- JAG is driven by
 - Application Definition file (xml), created/ edited with GUI Wizard (JDev add-in)
 - Velocity Generator Templates
- Generated output is 100% customizable



Generation Process





MyJhsTutorial - Application Definition Editor

MyJhsTutorial

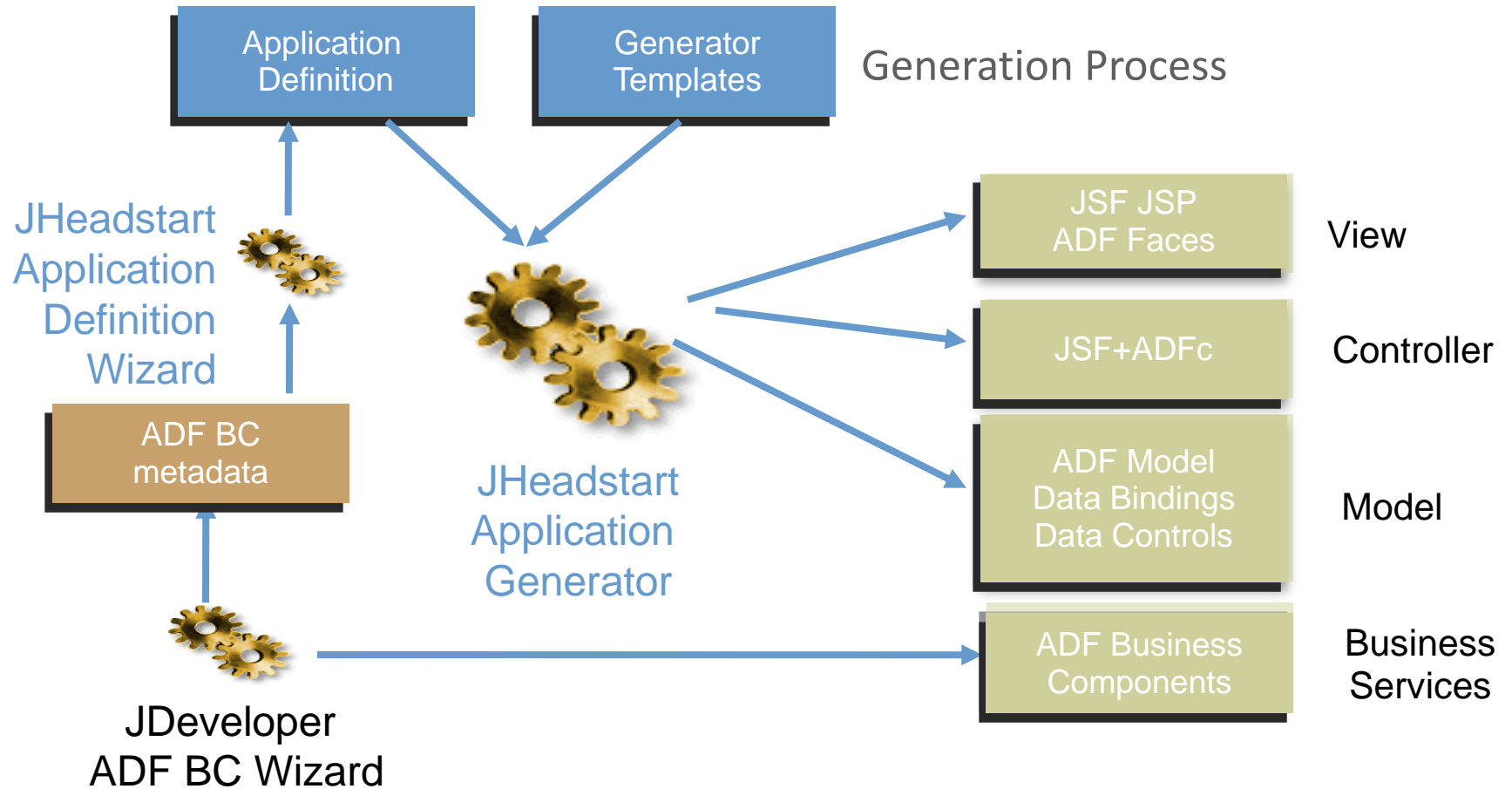
- HRModule
 - Employees
 - Departments
 - Items
 - Regions
 - Detail groups
 - Employees3
 - Items
 - EmployeeId
 - FirstName
 - LastName
 - Email
 - PhoneNumber
 - HireDate
 - JobId
 - Salary
 - CommissionPct
 - ManagerId
 - DepartmentId
 - Regions
 - Detail groups
- Jobs
- Locations
- Countries
- Regions
- Domains

Identification	
Name *	Departments
Short Name	
Description	Departments
Icon	
Bound to Model Data Collection? *	<input checked="" type="checkbox"/>
Group Usage	
Group Region Access	
Add Menu Entry for this Group? *	<input checked="" type="checkbox"/>
Group Image / Icon	
Group Layout	
Layout Style *	table
Table Overflow Style	
Wizard Style Layout? *	<input type="checkbox"/>
Stack Groups on Same Page? *	None
Group Width	

This attribute determines the number and layout of the pages that are generated to select, view and manipulate the group ViewObject. form: generates a single-record page. table: generates a single page in Table (multi-record) format. table-form: generates a Table Page, as well as a single-record Details page. select-form: generates a Select Page with a list box where the user can select a record, and a single-record page. tree: generates an empty page with a tree control in the side navigation. The nodes in the tree that represent this group are NOT clickable. tree-form: generates a single-record page with a tree

Properties Templates

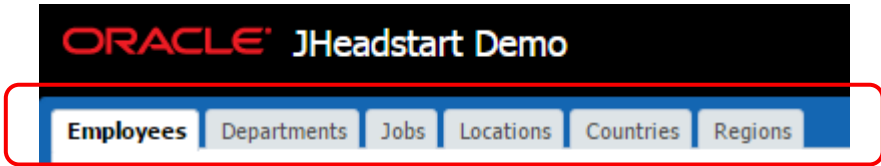
Help Apply OK Cancel



A man with dark hair and a beard, wearing a light grey t-shirt and blue jeans, is sitting on a dark green couch. He is looking down at a black laptop on his lap and smiling. A large red banner is overlaid on the left side of the image, containing the text 'Sample Generated Pages' in white. To the right of the banner, there is a word cloud of various programming and database technologies in red text, including Java, ASP, XML, BPEL, DBS, PL/SQL, NET, EJB, and Security, Database, .NET, BPEL, XML, ASP, Oracle, and DBS.

Sample Generated Pages

JHeadstart Generated Pages – Default Behavior -1



Switch Between Top-Level Application Functionality with Tabs

Create and Edit Data for Any Table Out of the Box

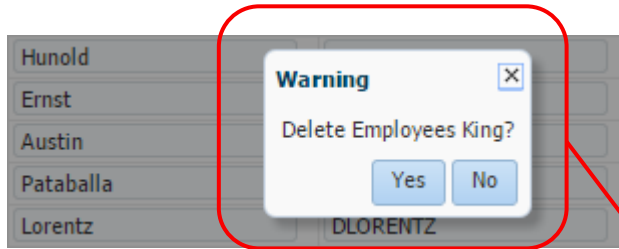
Employees King

EmployeeId: 100 JobId: AD_PRES
FirstName: Steven Salary: 24000
* LastName: King CommissionPct:
* Email: SKING ManagerId:
PhoneNumber: 515.123.4567 DepartmentId: Executive
* HireDate: 17-Jun-2003

Action	View	Format	+	Freeze	Detach	Wrap
	* EmployeeId	FirstName	* LastName			
	100	Steven	King			
	101	Neena	Kochhar			
	102	Lex	De Haan			

Insert, Update, Delete and Duplicate Multiple Rows on a Page

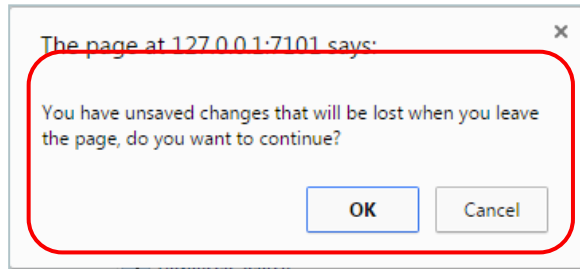
JHeadstart Generated Pages – Default Behavior -2



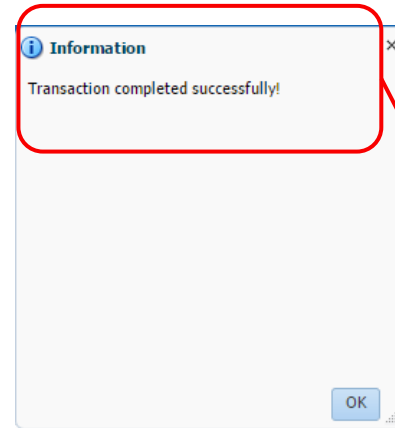
Delete Row Confirmation Dialog

* DepartmentId	* DepartmentName	ManagerId	LocationId
10	Administration	Whalen	Seattle
20	Marketing	Hartstein	Toronto
30	Purchasing	Raphaely	Seattle

Select Related Data from Automatically Created Lookups



Avoid Accidentally Losing Pending Changes When Switching Top-Level Application Function









Never Wonder Whether Changes are Saved with Positive User Feedback

JHeadstart Generated Pages – Default Behavior -3

Departments

Filter By: DepartmentName ▼ A → Advanced Search

Action ▼ View ▼ Format ▼ + Freeze Detach Wrap

	* DepartmentId	* DepartmentName	ManagerId	LocationId
  	10	Administration	Whalen ▼	Seattle ▼
  	110	Accounting	Higgins ▼	Seattle ▼

**Rapidly Find Data
Using Quick Search
Region**

**Search More
Precisely Using
Advanced Search
Region**

Advanced Search Advanced Quick Search Saved Search ▼

Match All Any

DepartmentId ManagerId Sciarra ▼

DepartmentName LocationId Roma ▼

Search Reset Save...

JHeadstart Generated Page

Employees Departments Jobs Locations Countries Regions

Advanced Search Advanced Quick Search Saved Search [v] Cancel

Match All Any

EmployeeId JobId

FirstName Salary

LastName CommissionPct

Email ManagerId

PhoneNumber DepartmentId

HireDate

Search Reset Save...

Action View Format Detach Wrap

EmployeeId	FirstName	LastName	JobId
100	Steven	King	AD_PRES
101	Neena	Kochhar	AD_VP
102	Lex	De Haan	AD_VP
103	Alexander	Hunold	IT_PROG
104	Bruce	Ernst	IT_PROG
105	David	Austin	IT_PROG
106	Valli	Pataballa	IT_PROG
107	Diana	Loch	IT_PROG

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Powered by Oracle JHeadstart 12c

Searches can be saved

Switch between Advanced and Quick Search Area

Table Layout with inline overflow

JHeadstart Generated Page

The screenshot displays the Oracle JHeadstart Demo interface. At the top, there are navigation tabs for 'Employees', 'Departments', 'Jobs', 'Locations', 'Countries', and 'Regions'. The main content area is titled 'Edit Employees Kochhar' and contains a form with fields for EmployeeId (101), JobId (AD_VP), FirstName (Neena), Salary (17000), LastName (Kochhar), CommissionPct, Email (NKOCHHAR), ManagerId (King), Department (Executive), PhoneNumber (515.123.4568), and HireDate (21-Sep-1989). Below the form is a section for 'Managed Departments' and 'Subordinates'. The 'Subordinates' section features a table with columns for EmployeeId, FirstName, LastName, Email, PhoneNumber, HireDate, and JobId. The table contains five rows of data. A red circle highlights the navigation buttons (back, forward, search, refresh) and the record count '[54 / 107]' in the top right of the form. Another red circle highlights the 'Subordinates' table, which includes a toolbar with 'Freeze', 'Detach', and 'Wrap' options, and a 'Columns Frozen' indicator at the bottom.

* EmployeeId	FirstName	* LastName	* Email	PhoneNumber	* HireDate	* JobId
108	Nancy	Greenberg	NGREENBE	515.124.4569	17-Aug-1994	FI_MGR
200	Jennifer	Whalen	JWHALEN	515.123.4444	17-Sep-1987	AD_ASST
203	Susan	Mavris	SMAVRIS	515.123.7777	07-Jun-1994	HR_REP
204	Hermann	Baer	HBAER	515.123.8888	07-Jun-1994	PR_REP
205	Shelley	Higgins	SHIGGINS	515.123.8080	07-Jun-1994	AC_MGR

Master Detail Layout
with 2 details
Managed Departments
and Subordinates

Navigation buttons
and # records

Multi Row, insert
update and delete

JHeadstart Generated Pages

ORACLE JHeadstart Demo Home | Human Resource Application

Employees | **Employee Wizard** | Departments | Jobs | Locations | Countries | Regions

Identification **Functional** Financial Assign Subordinates

Enter New Employee Back Next Finish

PhoneNumber 123-567-890

* JobId IT_PROG

* HireDate 20-Oct-2015

ManagerId Hunold

Department IT Helpdesk

Wizard style to enter a new employee

Multi Select LoV to assign subordinates to a manager

ORACLE JHeadstart Demo Home | Human Resource Application

Employees | **Employee Wizard** | Departments | Jobs | Locations | Countries | Regions

Identification Functional Financial **Assign Subordinates**

Assign Subordinates Back Next Finish Cancel

Unassigned	Assigned
Greenberg	Austin
Faviet	Pataballa
Sciarra	Lorentz
Urman	Chen
Popp	
Raphaely	
Choo	
Baida	
Tobias	
Himuro	

JHeadstart Generated Page

In line master detail in a table-table layout

The screenshot displays the Oracle JHeadstart Demo application interface. The top navigation bar includes 'ORACLE JHeadstart Demo' and 'Home | HRModule'. Below this, a breadcrumb trail shows 'Employees | Departments | Jobs | Locations | Countries | Regions'. The main content area is titled 'Countries' and features a 'Filter By CountryId' dropdown and an 'Advanced Search' button. A toolbar above the table includes 'Action', 'View', 'Format', '+', 'Detach', and 'Wrap'. The table displays the following data:

* CountryId	CountryName	RegionId
BE	Belgium	Europe
BR	Brazil	Americas
CA	Canada	Americas

Below the 'Countries' table, there is a 'Locations' section with a similar toolbar. Its table displays the following data:

* LocationId	StreetAddress	PostalCode	* City
1800	147 Spadina Ave	M5V 2L7	Toronto
1900	6092 Boxwood St	YSW 9T2	Whitehorse

The 'Locations' table is part of an in-line master-detail layout, where each row in the 'Locations' table is associated with a row in the 'Countries' table above it. A red circle highlights the 'Locations' table, and a red arrow points from the text 'In line master detail in a table-table layout' to this circle. The bottom of the page contains the text 'Copyright Oracle Corporation, 2002-2013' and 'Powered by Oracle JHeadstart 12c'.

JHeadstart Generated Page

The screenshot displays the Oracle JHeadstart Demo interface. At the top, there is a navigation bar with tabs for Employees, Departments, Jobs, Locations, Countries, and Regions. The main content area is titled "Edit Departments Shipping" and includes a form for Department (50) and DepartmentName (Shipping), along with a ManagerId dropdown (Fripp). Below this is an "Employees" table with columns for EmployeeId, FirstName, and LastName. A red box highlights a tree layout on the left side of the page, showing a hierarchical structure of regions and departments. Another red box highlights a "Tabbed Overflow Area" on the right side, which contains a form for editing employee details, including fields for Department, ManagerId, JobId, HireDate, PhoneNumber, and Email.

Tree lay out

Tabbed Overflow Area

Action	View	Format	+	Freeze	Detach	Wrap	* EmployeeId	FirstName	* LastName
							120	Matthew	Weiss
							121	Adam	Fripp
							122	Payam	Kaufing
							123	Shanta	Vollman
							124	Kevin	Mourgos
							125	Julia	Nayer
							126	Irene	Mikkilineni
							127	James	Landry
							128	Steven	Markle
							129	Laura	Bissot

JHeadstart Generated Page

Oracle Health Insurance

Oracle Health Insurance

Home Foundation Relation Management Codes Products and Segmentation Claims Setup Claims Preferences Log Off

View: Name Formats Geographic Regions **Organizations**

Organizations

Filter By: Code [Advanced Search]

Action View Format + [Detach] [Wrap]

Action	Code	Subtype	Name	End Date
✖	CL0016BANK1	Bank	CL0016 Bank with IBAN	
✖	CL0016MATCH3	Organization	CL0016 match organization provider	
✖	CL0025OR001	Organization	CL0025 organization 1	
✖	CL0041ORG001	Organization	CL0041 Organization 1	
✖	CL0041ORG002	Organization	CL0041 Organization 2	
✖	FN0022OR001	Organization	FN0022 organization 1	
✖	FN0022OR002	Organization	FN0022 organization 2	
✖	OpenScriptOrg1	Organization	OpenScript Organization 001	
✖	PC0003O0001	Organization	PC0003 Org. provider	
✖	PC0011O0001	Organization	PC0004 Org. provider	
✖	PC0009ORG001	Organization	PC0009 Org for testing External Intervention Rules	
✖	CL0043ORG001	Organization	PC0043 Workflow IP Testing	
✖	RM0021OR010	Organization	RM0021 organization 10	

Addresses Bank Account Numbers Associations Tags

Filter By: Type [Advanced Search]

Action View Format + [Detach] [Wrap]

Action	Type	Start Date	End Date	Street	House Number	Number Addition	City
No rows found or no search performed since entering the page							

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JHeadstart Generated Page

Oracle Health Insurance

Oracle Health Insurance

Home Foundation **Relation Management** Codes Products and Segmentation Claims Setup Claims Preferences Log Off

View

Countries

Filter By Code U% Advanced Search

About this page Save Cancel

Action View Format + Attach Detach Wrap

Action	* Code	* Name	Prompt Additional Part 1	Prompt Additional Part 2	Prompt Additional Part 3	Primary Dateformat	Secondary Date
	UA	Ukraine					
	UG	Uganda					
	UM	United States Minor Outlying Islands					
	US	United States of America				MM/dd/yyyy	

Uppercase Indicators

Uppercase Street? Uppercase Additional Part 1?
 Uppercase City? Uppercase Additional Part 2?
 Uppercase Housenumber Addition? Uppercase Additional Part 3?
 Uppercase Region?

Validation Items

Address Validation Code
 Address Validation Description
 Address Format Code
 Address Format Description

	UY	Uruguay					
	UZ	Uzbekistan					

Country Regions

Filter By Code Advanced Search

Action View Format + Attach Detach Wrap

Action	* Code	* Display Code	Active?
No rows found or no search performed since entering the page			

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JHeadstart Generated Page Oracle Health Insurance

The screenshot displays the Oracle Health Insurance application interface. At the top, there is a navigation bar with links for Home, Foundation, Relation Management, Codes, Products and Segmentation, Claims Setup, Claims, Preferences, and Log Off. Below this, a breadcrumb trail shows the current path: Search claims > View Claim PC0001CLP1 > View Claim CL0012S2P2 > Change Claim CL0012LOCSUINST1 > Change Claim CL0012SUM1. The main content area is titled "Claim CL0012LOCSUINST1 - CHANGE" and includes a "Claim" section with Code CL0012LOCSUINST1 and Total Charged \$ 219.47. A "Claim Details" section is also visible, showing "Pend Reasons".

Two modal windows are open in the foreground:

- Claim Status History:** A table with columns: Date, Status, Resolved By. It contains five rows of data for the date 08/31/2010 09:20, with statuses: FINALIZED, ADJUDICATION DONE, BENEFITS DONE, PRICING DONE, and INITIAL.
- Pend Reason History:** A table with columns: Prio, Code, Description. It displays the message: "No rows found or no search performed since entering the page".

At the bottom right of the interface, there is a "Price Details" section with the following information:

- 1 - Reason for patient visit - U - 123.12
- 2 - Reason for patient visit - U - 123.11
- comp2 - 45
- comp1 - 15

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Enhanced UI Shell with Dynamic Tabs

The screenshot displays the Oracle JHeadstart Demo application. The top navigation bar includes the title "ORACLE JHeadstart Demo", a "Skin" dropdown set to "fusion", a "Language" dropdown set to "English", and a "Log Off" button. The main interface features a left-hand navigation pane with a "View" dropdown and a tree structure containing "Home", "AppModule", "Employees", "Departments", "Regions", "Jobs", "Locations", "Countries", "Security Administration", "Users", "Roles", and "Permissions". The "Departments" tab is currently active and highlighted with a red box. The main content area shows a "Departments" table with columns for "DepartmentId", "DepartmentName", "ManagerId", and "LocationId". The table contains data for departments 10, 20, 70, 80, 90, and 100. An "Alert for Unsaved Changes" dialog box is overlaid on the table, asking "You have unsaved changes that will be lost when you close the tab, do you want to continue?" with "Yes" and "No" buttons. The "Departments" tab title is highlighted with a red box.

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JHeadstart

Uses Best Practice ADF Design Patterns

- “One-page” application (UIShell)
 - Generated bounded task flows use page fragments and can be embedded as ADF region in page
 - One page with dynamic region driven by application menu
- Generated task flows are highly reusable
 - Use with traditional menu structure
 - Use with dynamic tabs
 - Use in handbuilt drag-and-drop pages
 - Use as child within another region
 - Use with human workflow task list
 - Use as popup / list of values
 - Use as WebCenter portlet
 - Add at runtime using WebCenter Composer

JHeadstart-Generated Taskflow in Handbuilt Dashboard Page

Human Resources Dashboard - Use Drag And Drop to Reposition the Panels

Jobs

JobId	IT_PROG
JobTitle	Programmer
MinSalary	4000
MaxSalary	10000

JobId	SH_CLERK
JobTitle	Shipping Clerk
MinSalary	2500
MaxSalary	5500

16 of 22

Employees

Filter By: LastName

Advanced Search

Action View Format Detach Wrap

	EmployeeId	FirstName	LastName	JobId
▶	100	Steven	King	AC_MGR
▶	101	Neena	Kochhar	AD_VP
▶	102	Lex	De Haan	AD_VP

Email	LDEHAAN	CommissionPct	
PhoneNumber	515.123.4569	ManagerId	King
HireDate	13-Jan-2001	Department	Executive
Salary	17000		

▶	103	Alexander	Hunold	IT_PROG
▶	104	Bruce	Ernst	IT_PROG
▶	105	David	Austin	IT_PROG
▶	106	Valli hhh	Pataballa	IT_PROG
▶	107	Diana	Lorentz	AD_ASST

Locations

Locations (Roma) >

Edit Locations Roma [1 / 23] Save Cancel

Countries

Save Cancel

Filter By: CountryId

Advanced Search

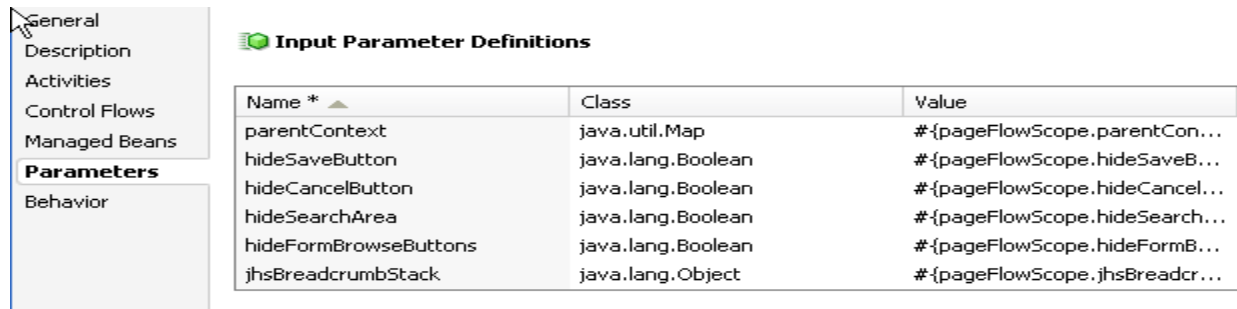
JHeadstart

Uses Best Practice ADF Design Patterns

- Generated task flows are highly configurable
 - to start in create mode (new row)
 - to show one specific row (deeplinking)
 - to go to summary or detail page
 - to hide action buttons (Save, Cancel, Nav. Buttons)
 - to hide search region
 - to show in read-only mode
- Generates layout best practices
 - Easy switching between stretching and non-stretching layouts
- Region interaction design patterns are auto-implemented

Configurable TaskFlows Generated

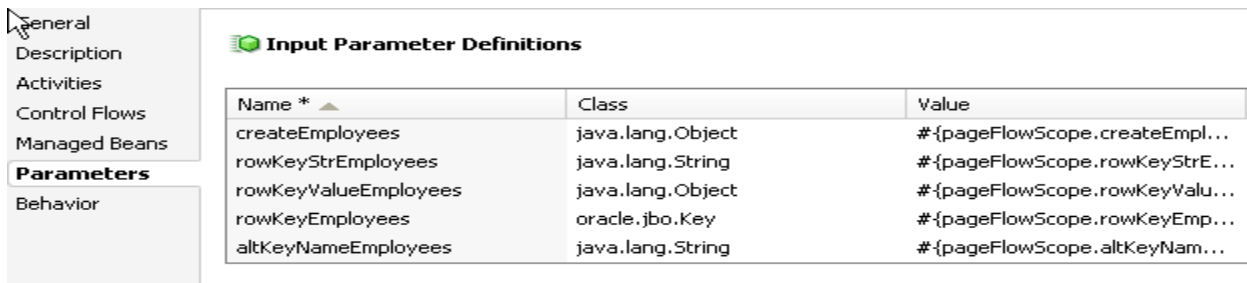
- Taskflow Template Parameters



Input Parameter Definitions

Name * ▲	Class	Value
parentContext	java.util.Map	#{pageFlowScope.parentCon...
hideSaveButton	java.lang.Boolean	#{pageFlowScope.hideSaveB...
hideCancelButton	java.lang.Boolean	#{pageFlowScope.hideCancel...
hideSearchArea	java.lang.Boolean	#{pageFlowScope.hideSearch...
hideFormBrowseButtons	java.lang.Boolean	#{pageFlowScope.hideFormB...
jhsBreadcrumbStack	java.lang.Object	#{pageFlowScope.jhsBreadcr...

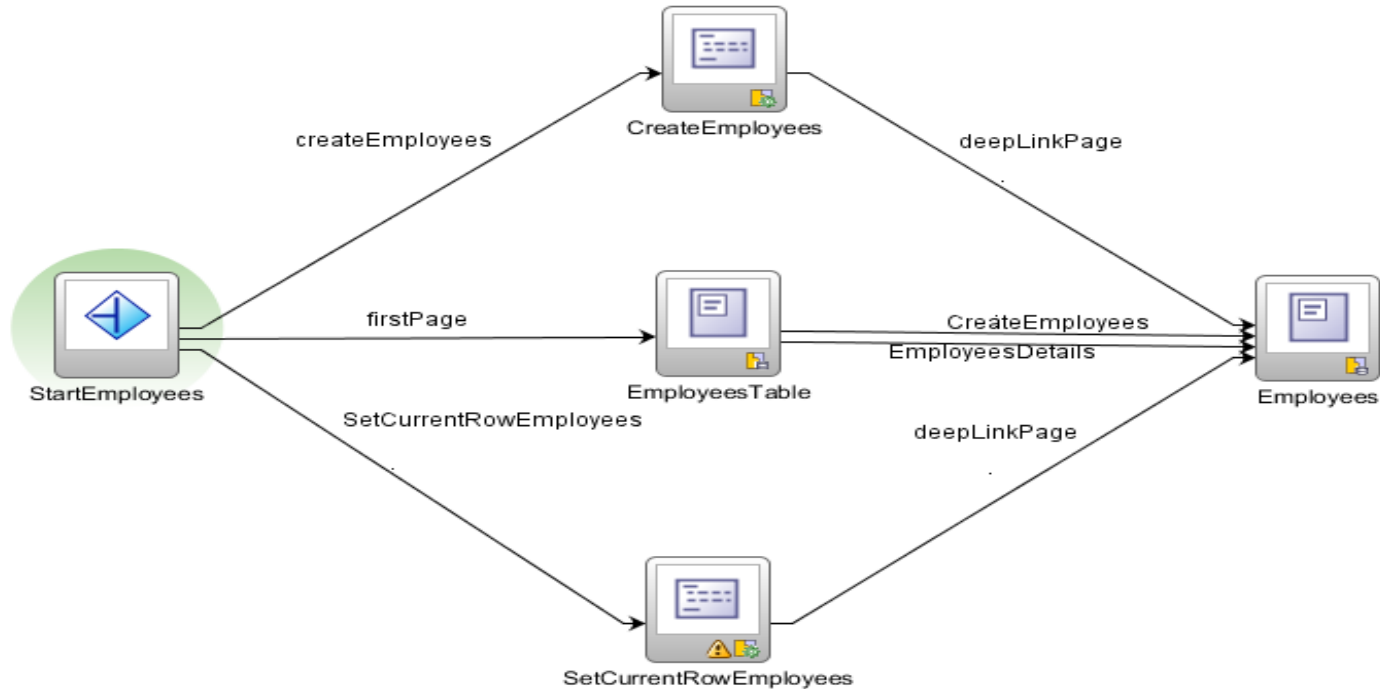
- Taskflow Parameters



Input Parameter Definitions

Name * ▲	Class	Value
createEmployees	java.lang.Object	#{pageFlowScope.createEmpl...
rowKeyStrEmployees	java.lang.String	#{pageFlowScope.rowKeyStrE...
rowKeyValueEmployees	java.lang.Object	#{pageFlowScope.rowKeyValu...
rowKeyEmployees	oracle.jbo.Key	#{pageFlowScope.rowKeyEmp...
altKeyNameEmployees	java.lang.String	#{pageFlowScope.altKeyNam...

Configurable Task Flows Generated

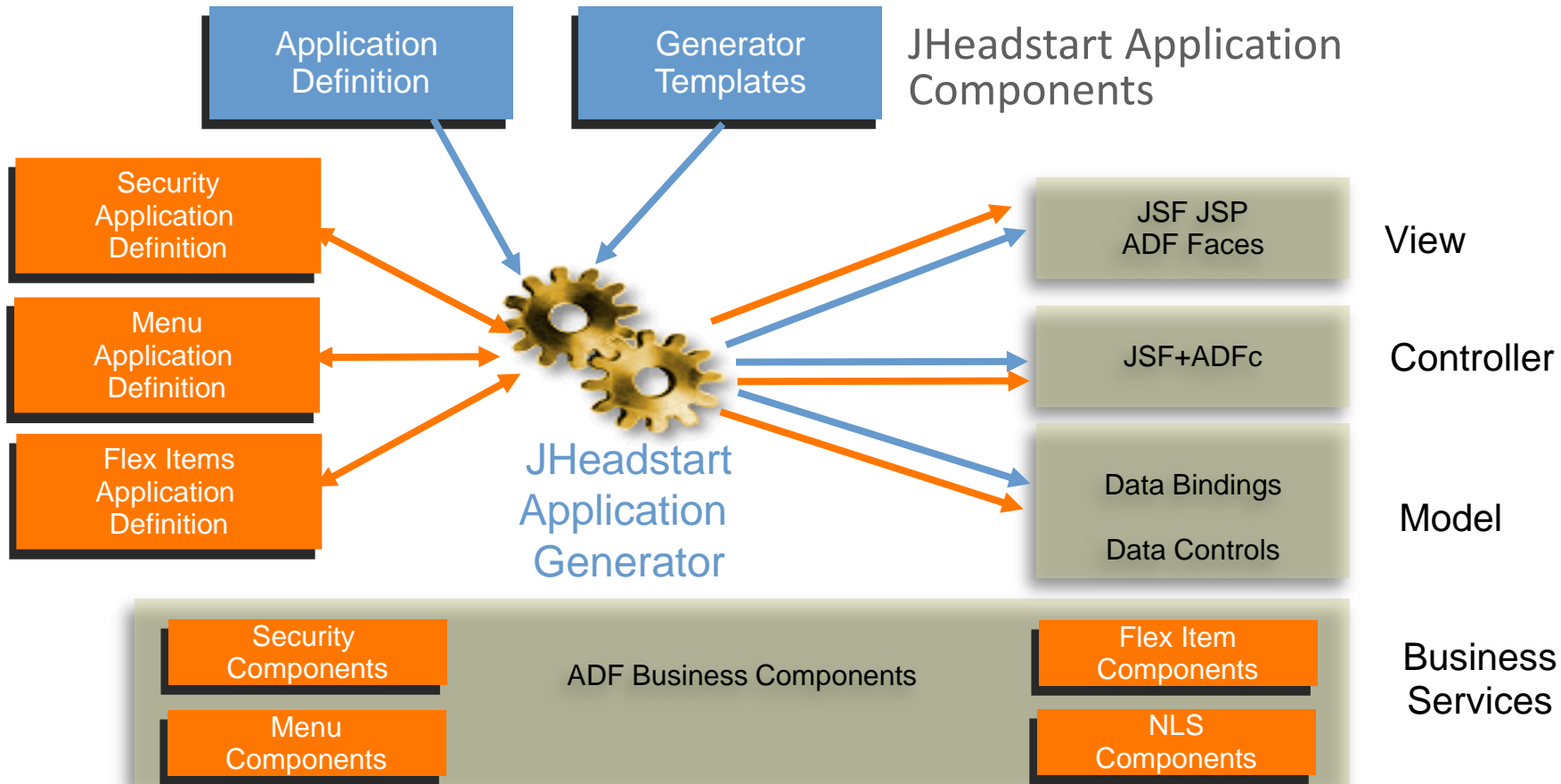


Reusable Application Components

- Fine-grained permission-based authorization
 - Seamlessly integrated with ADF Security
- Dynamic menu structure
- Flex Items: Adding new items at runtime
- Runtime customization of standard items
 - Show/hide
 - Make mandatory
- Runtime translation/modification of page text

Reusable Application Components Packaging

- DDL script to Create Table Structure
- Predefined Business Components with application module
 - Nested within own app module
- JHeadstart Application Definitions generated
 - That can be used to generate admin screens
- SQL scripts are generated and executed to populate the database tables
 - Roles, Permissions (Group Access/Action), Grants
 - Module and menu items
 - Translations
 - Flex Region Definitions





Generated Menu Admin Page

ORACLE® JHeadstart Demo Home Module **Menu Administration** Page Template **Tabbed Menu** * Skin **fusion** Log Off

Menu Structure **User Interface Skins**

Modules

- View ▾
- HRModule
 - Employees**
 - Departments
 - Jobs
 - Locations
 - Countries
 - Regions
- Menu Administration
- Security Administration

Edit Menu Item Employees  


* Display Sequence

* Name

* Module ▾

Parent Menu Item ▾

* Label

Label Translation Key 

Launching Group Name

JSF Navigation Action

IFrame Url

Roles

Disabled Expression

Rendered Expression

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Generated Security Admin Page

The screenshot displays the Oracle JHeadstart Demo interface for Security Administration. The main page is titled "Edit Role USER" and shows a table of "Granted Permissions" with columns for Name, Service Name, and Type. A modal dialog box titled "Search and Select Permissions" is open, showing a search filter for "Service Name" set to "HRModule". The dialog contains a table of search results with columns for Name, Service Name, and Type. The results show several entries related to HRModule, including "Employees.create", "Employees.update", "Employees.delete", and "Departments". The dialog also includes a "Filter By" dropdown, an "Advanced Search" button, and a "Rows Selected" indicator showing 4 rows.

ORACLE JHeadstart Demo

Home Module Security Administration Page Template Tabbed Menu Skin fusion Log Off

Users Roles Permissions

Roles (USER) >

Edit Role USER

* ShortName USER * Name USER

Assign Users to Role Granted Permissions

Action View Format +

* Name	Service Name	Type
Jobs		
HRModule		

Search and Select Permissions

Filter By Service Name HRModule Advanced Search

Action View Format Freeze Detach Wrap

Name	Service Name	Type
HRModule	HRModule	Group Access
Employees	HRModule	Group Access
Employees.create	HRModule	Group Action
Employees.update	HRModule	Group Action
Employees.delete	HRModule	Group Action
EmpWizard	HRModule	Group Access
EmpWizard.create	HRModule	Group Action
EmpWizard.update	HRModule	Group Action
EmpWizard.delete	HRModule	Group Action
Departments	HRModule	Group Access

Rows Selected 4

OK Cancel

Columns Frozen 1

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In-Page Text Editing and Translating

ORACLE JHeadstart Demo Home Module HRModule Customize Mode Change/Translate Page Text

Employees Departments Jobs Locations Countries Regions

Employees
Filter By [v]
Action View Format
Employee

Translate or Modify Page Text

Page: /UIShell
Language: English
Filter by Key: []

Key	Value
PRODUCT_TITLE	JHeadstart Demo
APPLICATION_TITLE	My Jhs Tutorial
MODULE_HRMODULE	HRModule
MODULE_MENUADMINSERVICE	MenuAdminService
MODULE_FLEXREGIONSERVICE	FlexRegionService
HOME_BUTTON_LABEL	Home
MODULE_SELECTOR_LABEL	Module
CUSTOMIZE_MODE_BUTTON_LABEL	Customize Mode
LOG_OFF_BUTTON_LABEL	Log Off
MENU1_TITLE_EMPLOYEES	Employees
MENU1_TITLE_DEPARTMENTS	Departments
MENU1_TITLE_JOBS	Jobs
MENU1_TITLE_LOCATIONS	Locations
MENU1_TITLE_COUNTRIES	Countries

Save OK Cancel

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Define Flex Items Dialog

Customize Flex Region

Edit Flex Region Definition FlexRegionEmployees >

Edit Flex Item Definition BirthCountry

Navigation: [2 / 8] | [Icons] | Save Cancel

* Display Sequence:

* Name:

* Label:

Label Translation Key:

Hint Text:

Hint Text TranslationKey:

* Display Type:

Display Width:

Display Height:

Depends On Item:

Roles:

Rendered Expression:

Default Value | **Validation** | **Allowable Values**

Allowable Values Query:

```
select country_id, country_name from countries where region_id = :DependsOnItemValue
```

Static Allowable Values

Action View Format + Freeze Detach Wrap

* Display Sequence	* Value	Label Translation Key	* Label
No rows found			

Flex Items Added to Employee Page

Employees Departments Jobs Locations Countries Regions

Employees (KING) >

Edit Employees Kochhar [7 / 116] Save Cancel

* EmployeeId 101 * JobId AD_VP AD_VP
* Salary 17000
* JobId AD_VP AD_VP
* HireDate 21-Sep-1989

FirstName Neena * LastName Kochhar
* Email NKOCHHAR
CommissionPct
ManagerId Davelaar
Department Executive
PhoneNumber 515.123.4568
HireDate 21-Sep-1989

Personal Information

Region of Birth Europe
Country of Birth Netherlands
BirthDate 30-Dec-1982
Java Experience

Favorite Color Red Blue Green
Favorite Technologies ADF JHeadstart Struts
Curriculum Vitae Choose File No file chosen
Private email Neena.Kochar@hotmail.com Neena.Kochar@hotmail.com

Customizing Generated Output

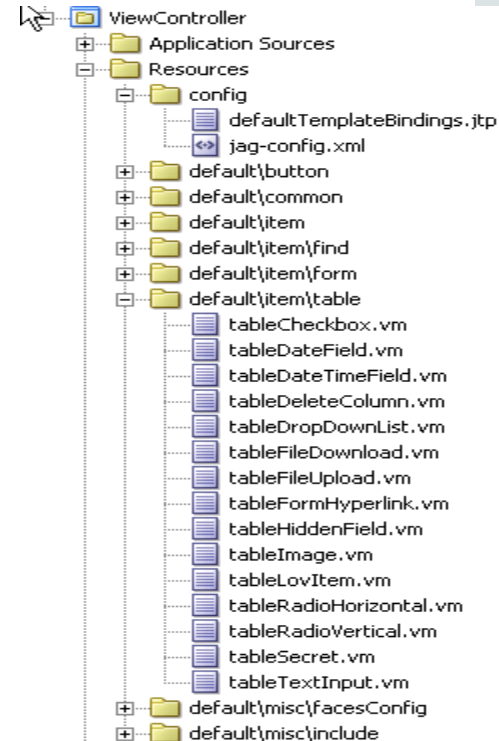
Recommended Approach

- Use the visual design time tools in JDeveloper to make modifications you like
 - Drag and drop from control palette
 - Structure pane
 - Property inspector
 - ..
- Run the modified page and verify it works as expected
- Move the custom page code to a custom template to preserve the modifications upon regeneration
- (or switch off page generation flag and skip last step)

JHeadstart Generator Templates

- The content of generated pages is completely driven by Velocity generator templates
- The templates are categorized in groups
 - Page, pageComponent, button, item (table/form/search), search, misc, etc.
- Which template is used for which page “snippet” is handled by defaultTemplateBindings.jtp file.
- You can customize anything that is generated onto a page by creating a custom template

```
# -----  
# TABLE ITEM TEMPLATES  
# -----  
TABLE_TEXT_INPUT=default/item/table/tableTextInput.vm  
TABLE_CHECK_BOX=default/item/table/tableCheckbox.vm  
TABLE_DROP_DOWN_LIST=default/item/table/tableDropDownList.vm  
TABLE_RADIO_VERTICAL=default/item/table/tableRadioVertical.vm  
TABLE_RADIO_HORIZONTAL=default/item/table/tableRadioHorizontal.vm  
TABLE_LIST=default/item/table/tableList.vm
```



Creating Custom Templates

The screenshot shows the 'Application Definition Editor' window for 'HRServiceApplicationDefinition.xml'. The left pane displays a tree view of the application structure, including 'Employees' and 'EmployeesList'. The right pane shows a table of templates and their default paths. A 'Create file' dialog box is overlaid on the editor, asking for confirmation to create a file and copy the inherited template.

Template Name	Default Path
TABLE_PAGE_CONTENT	default/page/tablePageContent.vm
TREE_FORM_PAGE_CONTENT	default/page/treeFormPageContent.vm
TREE_PAGE_CONTENT	default/page/treePageContent.vm
SHUTTLE_PAGE_CONTENT	default/page/shuttlePageContent.vm
Group Layout	
GROUP_CONTENT	default/pageComponent/groupContent.vm
FORM_GROUP	default/pageComponent/empFormGroup.vm
TABLE_GROUP	
TABLE_SELECTION	

```
#if ($JHS.current.group.databound)
<af:panelGroupLayout layout="vertical" id="empFormGroup">
  #if ($JHS.current.pageComponent)
    #if ($JHS.current.pageComponent)
      #JHS_PARSE_INCLUDE("${JHS.current.pageComponent}")
    #else
      #JHS_PARSE("SEARCH_AREA" ${JHS.current.model})
    #end
  #end

  <af:panelGroupLayout rendered="#{!GROUP_NOT_IN_FIND_MODE()}" id="${JHS.current.pageComponent}empFormGroup">
```

Create file

Do you want to create this file and copy the inherited template?

Yes No

Revert Apply

Help Apply OK Cancel

Graph Generated Using Custom Template

Edit Job Accountant

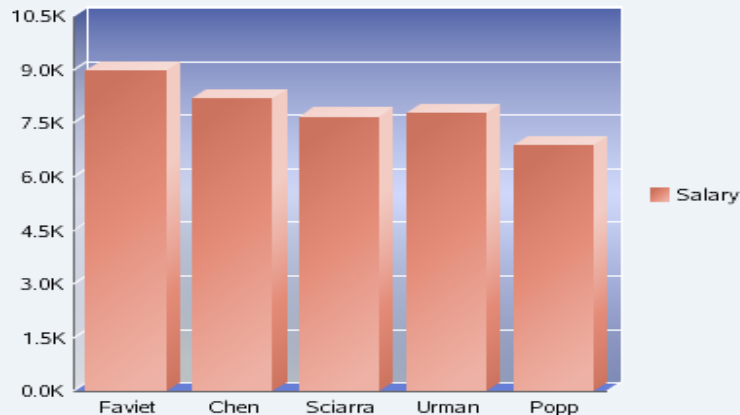
Navigation icons: back, forward, [6 / 20], search, Save, Cancel

* JobId: FI_ACCOUNT MinSalary: 4200
* JobTitle: Accountant MaxSalary: 9000

Employees

Action View Format Freeze Detach Wrap

EmployeeId	FirstName	LastName	* Salary
109	Daniel	Faviet	9000
110	John	Chen	8200
111	Ismael	Sciarra	7700
112	Jose Manuel	Urman	7800
113	Luis	Popp	6900
			7920



JHeadstart Superior Productivity

In Many Ways

- Saves you months to figure out ADF best practices
- Saves you months with ready-to-use reusable components
- Maximizes reuse
- Facilitates agile development
 - First prototype in minutes (!) that evolve into working system
- Eases upgrade to new JDeveloper releases
 - Technology-agnostic metadata layer!

JHeadstart – Next Steps

- Get more info at “JHeadstart Product Center” (google)
 - Developer’s guide, tutorial
 - Customer success stories, Frequently asked questions
- Evaluate JHeadstart
 - JDeveloper Help -> Check for Updates ->
 - Do the tutorial
- Buy JHeadstart and experience the benefits yourself!
- Ask questions at OTN JHeadstart Forum
- Or email idevcoe_nl@oracle.com

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