

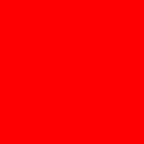
ORACLE®



ORACLE®

RIA and Web 2.0 Development Made Simple

Jobinesh Purushothaman
Principal Product Manager – Oracle ADF



The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.

Your Users are Using These at Home:

YAHOO! MAIL Hi, shay Offlin Sign Out My Yahoo Mail Cl

Check Mail

Search Mail...

Fly to Orlando from \$39

Inbox (5582)
Drafts
Sent
Spam (156)
Trash (1)
Contacts
Calendar

Netflix Only \$4.99/mo.
3 Credit Scores? View Yours: \$0
Free Phones

Inbox 5865 mes

Delete Reply Forward Spam Mo

More Actions View

| <input type="checkbox"/> | From | Subject |
|--------------------------|-----------------------|---------|
| <input type="checkbox"/> | Threadless Newsletter | Two c |
| <input type="checkbox"/> | KFOG Radio | Fogh |
| <input type="checkbox"/> | Zagat Buzz | Seer |
| <input type="checkbox"/> | Brainstormer | O'Nei |
| <input type="checkbox"/> | Knowledge Services | BEA/ |
| <input type="checkbox"/> | Insound | New I |
| <input type="checkbox"/> | Kala - Silicon Valley | Kala |

Two classic reprints! Plus \$3 off ...
Threadless Newsletter <newslett

TODAY: THU, 8/13 - SU

Print Send Link

Traffic More... **Map** Satellite Terrain

Address: ☆
1835 Roosevelt Ave
Redwood City, CA 94061

[Get directions](#) - [Search nearby](#)
[Zoom here](#) - [Save to My Maps](#) - [Send](#)
[Edit](#)

Google Analytics Settings

©2009 Google. Map data ©2009 Tele Atlas. [Terms of Use](#)

Dashboard

- ▶ Saved Reports
- Visitors
- Traffic Sources
- Content
- Goals

Custom Reporting Beta

Settings



How Do Your Applications Look?

The image displays three overlapping screenshots of Oracle Business Suite applications:

- Integration Repository:** Shows a search interface for integration points, with a list of categories on the left and a search box on the right.
- PeopleSoft Student Recruiting:** A dashboard with a 'Main Menu' on the left and several functional areas:
 - Maintain Prospects:** Maintain prospective student information. Includes links for Create/Update Prospects, Academic Information, and Testimonials.
 - Delete Prospects:** Delete a prospect record. Includes links for Delete Prospect Record, Prospect Delete Process, and Prospect Delete History.
 - External Org Summaries:** View summary data for external organizations. Includes links for Org Address Book Summary and Organization Groups Summary.
 - Assign Recruiters:** Assign recruiting categories and recruiters to prospects. Includes links for Recruiter Assignment and Recruiter Assignment Messages.
 - Prospect Summaries:** View summary data for a prospect. Includes links for Prospect Summary, Prospect Recruiters Summary, Academic Test Summary, and Education Summary.
 - Student Recruiters:** Maintain information and assignments for student recruiters. Includes links for Create/Update Recruiters, Participant and Achievements Summary, and Reason Self/D. Email Updates.
 - Evaluate Prospects:** Maintain a prospect's general evaluations. Includes links for General Materials, General Evaluations, General Evaluation History, and General Materials Summary.
 - 3 C's and Events Summaries:** View checklists, communications, comments and events assigned to a prospect. Includes links for Checklist Summary, Communication Summary, Comment Summary, and Event Summary.
- Oracle Developer Forms Runtime - Web:** A web-based data table with columns: Empno, Ename, Job, Sal, Mgr, Hiredate. A 'JForms options' dialog box is open over the table, showing buttons for 'Increase size (+)', 'Decrease size (-)', 'Set Order by ASC', 'Set Order by DESC', 'Move to right >>', '<< Move to left', and 'Cancel'. The 'Decrease size (-)' button is highlighted.

What's The Difference?

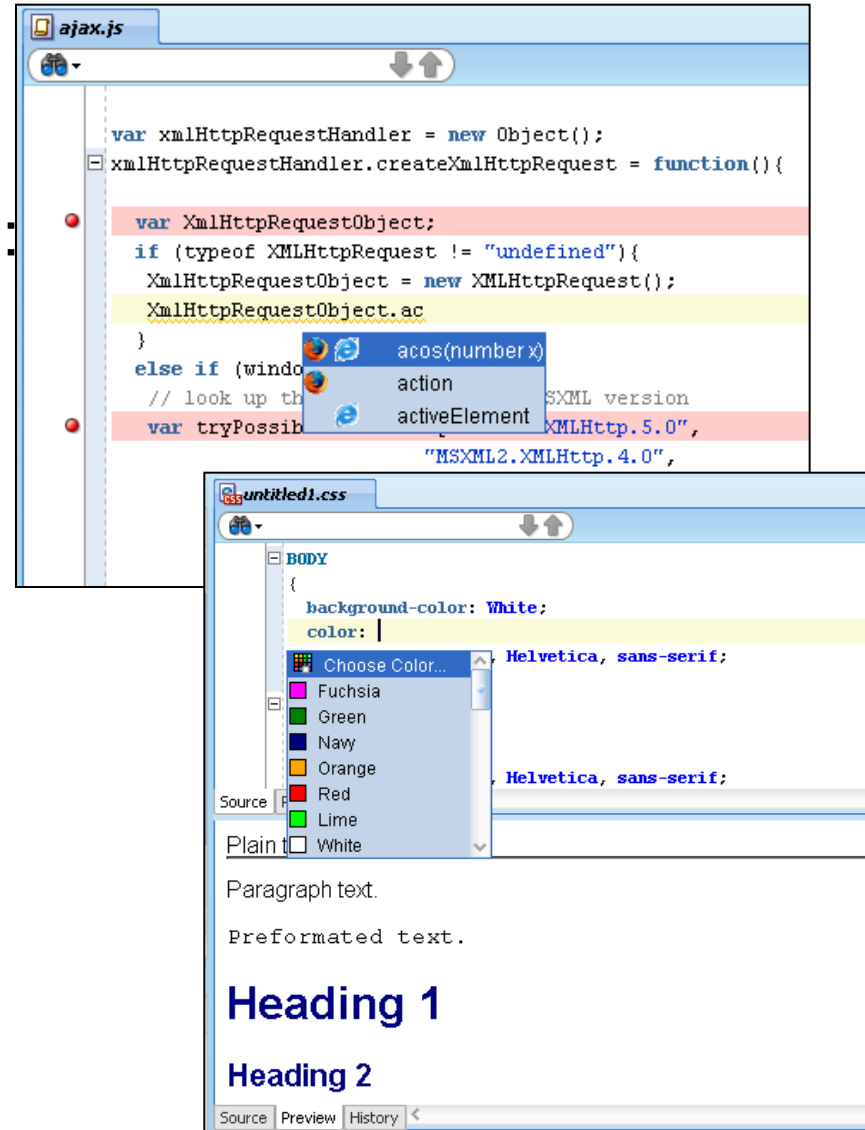
- Better Looking UI
- Better User Interaction
- Better Feedback
- Better Data Visualization
- Better Process Flow

How Does It Work?

- AJAX
 - asynchronous JavaScript and XML
 - DOM
 - XHTML
 - CSS
 - XML/XSLT
 - XMLHttpRequest
 - JavaScript
- Maybe some Flash

We Have The Tools

- Oracle JDeveloper includes:
 - Visual HTML layout editor
 - JavaScript editor
 - Code insight
 - Refactoring
 - JavaScript Debugger
 - CSS editor
 - Preview tab
 - HTTP Monitor



But The Challenge

- Thousands of developers
- Most don't know Ajax technologies
- Most come from 4GL background
- Expecting a visual and declarative approach
- Don't have time to learn all the new Ajax technologies
- Need to focus on their specific application needs



**THERE MUST BE A SIMPLER
WAY...**

A Simpler Approach

JSF and ADF Faces Components

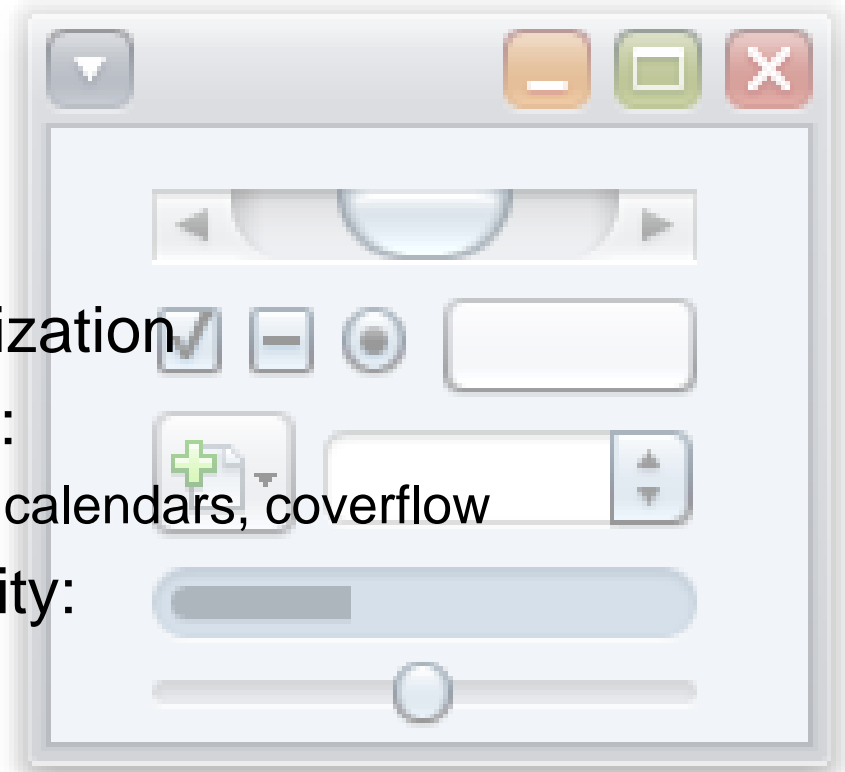


JSF In 60 Seconds

- Simplifying Web Development
 - Server side UI generation
 - **Component based** not mark-up
 - Automatic event and state handling
 - Diverse client base not just HTML
 - Designed with tooling in mind
 - Applicable to wide spectrum of programmer types
- A Java EE standard

ADF Faces Rich Client Components

- Over 150 components
- Ajax enabled
- Pluggable look and feel
- Accessibility & internationalization
- The usual components plus:
 - Charts, gantt, geo-map, pivot, calendars, coverflow
- Built in advanced functionality:
 - Drag and drop framework
 - Dialog and pop-up framework
 - “Active Data” - Dashboards / push updates (comet)
 - Templating and declarative components



Fusion Applications HCM

The screenshot displays the Oracle Fusion HCM interface. The top navigation bar includes 'Personalization', 'Administration', 'Help', 'Logout', and the user name 'Terry Lucca'. The main content area shows a list of employee profiles, each with a photo, name, title, and contact information. The profiles listed are:

- Terry Lucca**, Sr. Accounting Manager, Corporate Accounting. Contact: terry.lucca@vision.com, 352 555 3855, 647 555 4924.
- Anna Pascal**, Accounting Manager, Corporate Accounting. Contact: anna.pascal@vision.com, 890 555 2028, 612 555 5960.
- Stella Hahn**, Technical Writer, Corporate Accounting. Contact: stella.hahn@vision.com, 709 555 1530, 732 555 5589.
- Jason Blake**, Accounting Manager, Corporate Accounting. Contact: jason.blake@vision.com, 293 555 2282, 487 555 8025.

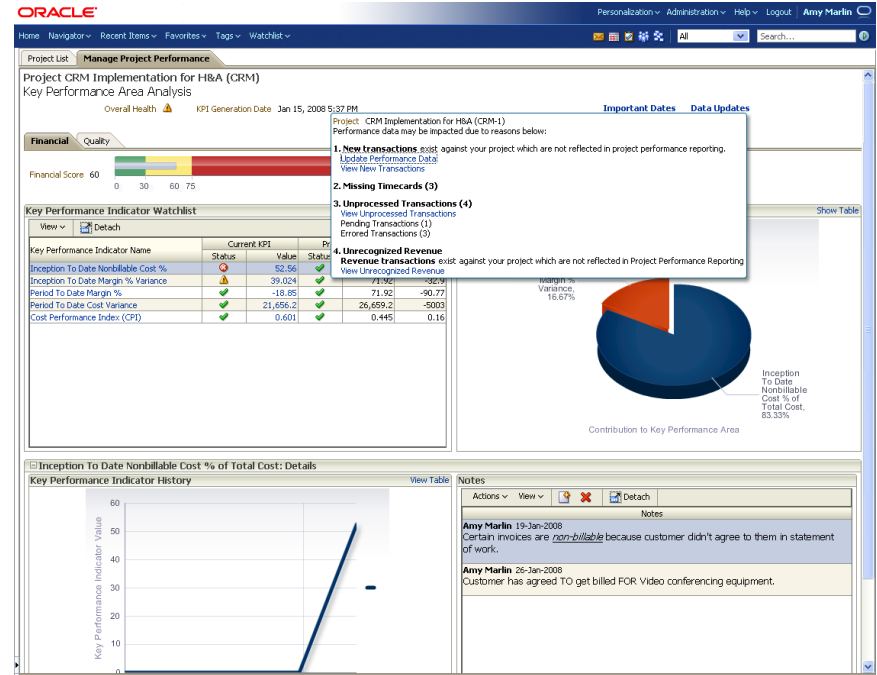
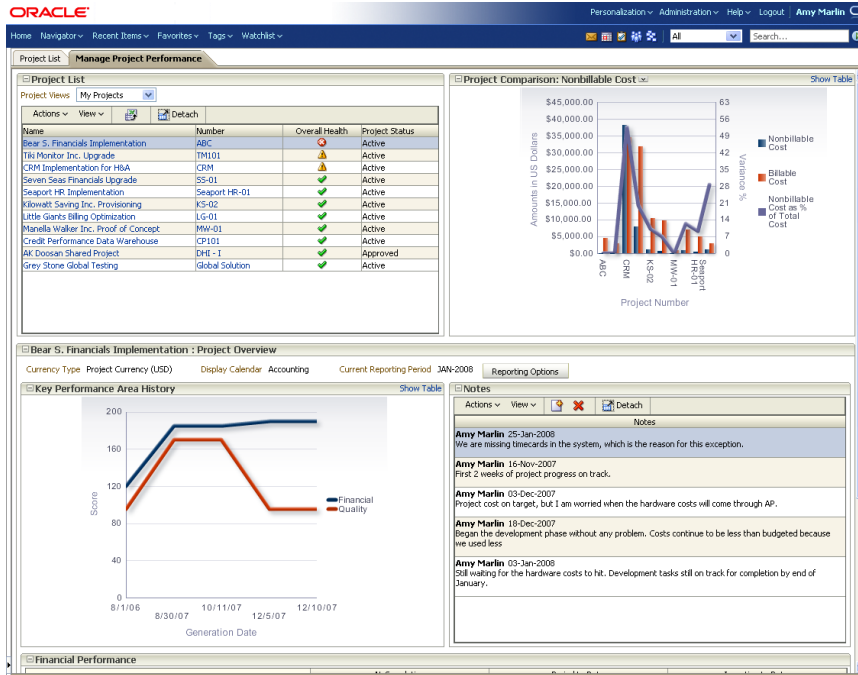
The left sidebar contains navigation options: Tasks, Search Tag, Search People, Hierarchy, and Details. The Details section includes links for Person, Employment, Performance, Talent Profile, Compensation, Benefits, Calendar, Blog, Payroll, Learning, Time Card, Expenses, Projects, and Recruiting.

The screenshot displays the Oracle Fusion HCM interface showing detailed information for employee Pat Miller. The top navigation bar includes 'Personalization', 'Administration', 'Help', 'Logout', and the user name 'Terry Lucca'. The main content area is titled 'Person Gallery' and shows a list of employees: Tom Kimble, Steve Freeman, Chuck Swift, Denise Lee, Terry Lucca, Anna Pascal, and Pat Miller. The details for Pat Miller are as follows:

- Personal Information:** E-Mail Address: pat.miller@vision.com, Supervisor: Anna Pascal, Location: San Francisco, CA, Work Country: US, Job: Accountant, Time: 15:27:58 PST.
- Employment Details:** Hire Date: 15-Mar-2000, Assignment Number: 8143152, Worker Number: 8143152, Office: San Francisco, CA, Working Hours: 42.5 / Week, Normal Start Time: 08:30, Normal Finish Time: 17:00.
- Salary History:** A bar chart showing Comparatio (Y-axis, 0.0 to 1.4) and Salary (Y-axis, 0K to 63K) over time (Change Date: 3/15/00, 8/1/01, 3/15/02, 2/16/03, 3/15/04, 3/1/05). The chart shows a general upward trend in salary over time.
- Performance v. Potential:** A 2x2 matrix with Potential (High, Medium, Low) on the Y-axis and Performance (Meets, Exceeds, Outstanding) on the X-axis. Pat Miller (Latest evaluation) is plotted in the High Potential, Outstanding Performance quadrant.
- Suitability:** A radar chart for the role of Accountant, comparing Pat Miller's performance against various competencies: Leadership, Teamwork, Creativity, Customer Service, Communication, Measurement, Motivation, and Peer Support. The chart shows Pat Miller's performance is generally high across all competencies.

The left sidebar contains navigation options: Tasks, Search Tag, Search People, Hierarchy, and Details. The Details section includes links for Person, Employment, Performance, Talent Profile, Compensation, Benefits, Calendar, Blog, Payroll, Learning, Time Card, Expenses, Projects, and Recruiting.

Fusion Applications Projects



Fusion Applications Procurement

The screenshot shows the Oracle Fusion Applications Procurement interface. The user is logged in as Terry Lucca. The main area displays a requisition for 'Sparc T55520' with a total value of 5,799.99 USD. The interface includes a search bar, a list of recent requisitions, and a table of requisition details.

| Requisitioning BU | Requisition | Description | Total (USD) | Status | Duplicate |
|-------------------|-------------|-------------------------------|-------------|------------|-----------|
| Vision Operations | 157 | Sparc T55520 | 5,799.99 | INCOMPLETE | |
| Vision Operations | 156 | Test run | 36,089.85 | IN PROCESS | |
| Vision Operations | 155 | test | 36,089.85 | IN PROCESS | |
| Vision Operations | 154 | Canon CP200 Photo Printer | 209.99 | IN PROCESS | |
| Vision Operations | 153 | Printers, servers and laptops | 36,089.85 | APPROVED | |
| Vision Operations | 152 | Printer Paper | 199.99 | IN PROCESS | |

The screenshot shows the Oracle Fusion Applications Procurement interface with search results for 'server'. The results list three server models: Sparc T55520, BladeCenter JS22, and ProLiant DL580 G4. Each result includes a description, supplier information, and pricing details.

| Item | Supplier | Supplier Item | Item | Price | Category | Supplier Site | Agreement |
|-------------------|----------|---------------|------|--------------|----------|---------------|-----------|
| Sparc T55520 | Sun | SUP009 | Item | 5,799.99 USD | Servers | SANTA CLARA | 1006 |
| BladeCenter JS22 | IBM | SUP010 | Item | 6,199.99 USD | Servers | SAN JOSE | 1007 |
| ProLiant DL580 G4 | HP | SUP011 | Item | 6,599.99 USD | Servers | PALO ALTO | 1008 |

Oracle WebCenter Spaces

The screenshot shows the Oracle WebCenter Spaces interface for the '11g FMW 11GR1 Launch' project. The top navigation bar includes 'Home', 'Documents', 'Phase 2 Training', 'Announcements', and 'Useful Links'. The main content area is divided into a left sidebar and a main workspace.

Left Sidebar:

- Phase 2 Weekly Meeting Docs
 - View
 - Name
 - FMW 11g_Phase 2_Kickoff.ppt
 - FMW11g_Phase 2_Rollout_Meeting_Sep_30_20
- Phase 2 Training Docs
- Phase 2 Collateral
- Phase 2 Core Team
- Phase 2 Training Team
- Recent Update to WorkSpace

Main Workspace:

This is the Product Management workspace for **FMW 11g R1 Phase 2 Release Project**. For questions regarding this workspace or this project, please contact Margaret.Lee@oracle.com (650.506.5917)

WEEKLY TEAM MEETINGS
Wednesdays, 11-12 PST

NEXT MEETING
Wednesday, October 21, 11-12AM PST
Intercall: 9296885/9296885
Conference.oracle.com

ACTION ITEMS BEFORE NEXT MEETING

- Identify single point of contact going forward
- Send Margaret OFO/Wiki/WebCenter location of your team's rollout planning
- Determine if your team is ready to and plans to support Hands-on based training in Jan/Feb time frame. (Awareness and Proficiency content will be required for all)

Events:

October 2009

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|--------|--------|---------|-----------|----------|--------|----------|
| | | | | 01 | 02 | 03 |



Cuyahoga County

Cuyahoga COUNTY OF OHIO
Geographic Information System

Layers & Locations

Current Zoom: County

Layers expand all collapse all Help

- Property
 - buildings (8 mi.)
 - Parcels (1 mi.)
 - Outside Cuyahoga Co.
 - Addresses (1/2 mi.)
- Emergency Services
 - Evacuation Routes
- Land Use and Regulation
 - Land Use (1 mi.)
 - Zoning
- Demographics
 - Census Block Group Boundaries
 - Household Income
 - Median Income by Block Group
 - Population Density
 - Population Change
- Natural Features
 - Contours (1 mi.)
 - Hydrography
 - Soils
- Property Foreclosures
 - Foreclosures
 - Foreclosures_2006
 - Foreclosures_2007
 - Foreclosures_2008

Map Viewer

Display Street Map Measure Quick Picks

Locate Parcel

Find Parcel by Owner Name, Address or Parcel Identification Number:

File View

- Include all rows
- Include selected rows
- Redraw map
- Columns
- Reorder Columns...

Details Nearest Locations

Over 150 Ajax Enabled Components

Tag Guide

A

- ActiveCommandToolBarButton
- ActiveImage
- ActiveOutputText
- AreaGraph
- AttributeDragSource
- AttributeDropTarget
- AutoSuggestBehavior

B

- BarGraph
- BreadCrumbs
- BubbleGraph

C

- Calendar
- CalendarDropTarget
- Carousel
- CarouselItem
- ChooseColor
- ChooseDate
- ClientAttribute
- ClientListener
- CollectionDragSource
- CollectionDropTarget
- Column
- ComboGraph
- CommandButton
- CommandImageLink
- CommandLink
- CommandMenuItem
- CommandNavigationItem
- CommandToolBarButton
- ComponentDef
- ComponentDragSource
- ContextInfo
- ConvertColor
- ConvertDateTime
- ConvertNumber

D

- DataFlavor
- DeclarativeComponent
- DecorativeBox
- Dialog
- Document
- DragSource
- DropTarget

E

- ExportCollectionActionListener

F

- FacetRef
- FileDownloadActionListener
- ForEach
- Form
- FunnelGraph

G

- Gauge
- GoButton
- GoImageLink
- GoLink
- GoMenuItem
- Group

H

- HierarchyViewer
- HorizontalBarGraph

I

- Icon
- Image
- InlineFrame
- InputColor
- InputComboBoxListofValues
- InputDate
- InputFile
- InputListofValues
- InputNumberSlider
- InputNumberSpinbox
- InputRangeSlider
- InputText
- InsertTextBehavior
- Iterator

L

- LineGraph

M

- Map
- MapBarGraphTheme
- MapColorTheme
- MapPieGraphTheme
- MapPointTheme
- Media
- Menu
- MenuBar
- Message
- Messages

N

- NavigationPane
- NoteWindow

O

- OutputFormatted
- OutputLabel
- OutputText

P

- PageTemplate
- PageTemplateDef
- PanelAccordion
- PanelBorderLayout
- PanelBox
- PanelCollection
- PanelDashboard
- PanelDashboardBehavior
- PanelFormLayout
- PanelGroupLayout
- PanelHeader
- PanelLabelAndMessage
- PanelList
- PanelSplitter
- PanelStretchLayout
- PanelTabbed
- PanelWindow
- ParetoGraph
- PieGraph
- PivotFilterBar
- PivotTable
- Pop
- Popup
- ProgressIndicator
- ProjectGantt

Q

- Query
- QuickQuery

R

- RadarGraph
- Region
- ResetActionListener
- ResetButton
- Resource
- ResourceUtilizationGantt
- ReturnActionListener
- RichTextEditor
- RichTextEditorInsertBehavior

S

- ScatterGraph
- SchedulingGantt
- ScrollComponentIntoViewBehavior
- SelectBooleanCheckbox
- SelectBooleanRadio
- SelectItem

S (continued)

- SelectManyCheckbox
- SelectManyChoice
- SelectManyListBox
- SelectManyShuttle
- SelectOneChoice
- SelectOneListBox
- SelectOneRadio
- SelectOrderShuttle
- Separator
- ServerListener
- SetPropertyListener
- ShowDetail
- ShowDetailHeader
- ShowDetailItem
- ShowPopupBehavior
- ShowPrintablePageBehavior
- SkipLinkTarget
- Spacer
- SparkChart
- StatusIndicator
- StockGraph
- SubForm
- Switcher

T

- Table
- ToolBar
- Toolbox
- Train
- TrainButtonBar
- Tree
- TreeTable

V

- ValidateByteLength
- ValidateDateRestriction
- ValidateDateTimeRange
- ValidateDoubleRange
- ValidateLength
- ValidateLongRange
- ValidateReadExp

X

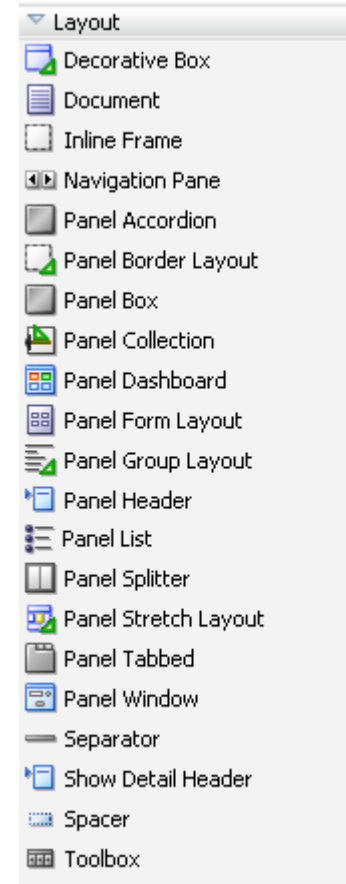
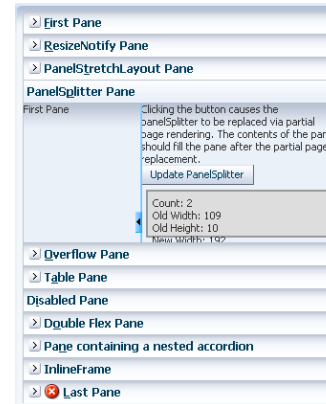
- XmlContent

More Than Components – A Framework

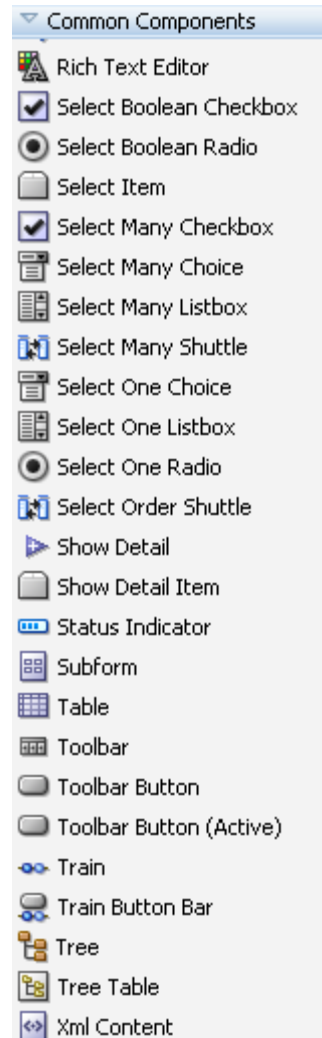
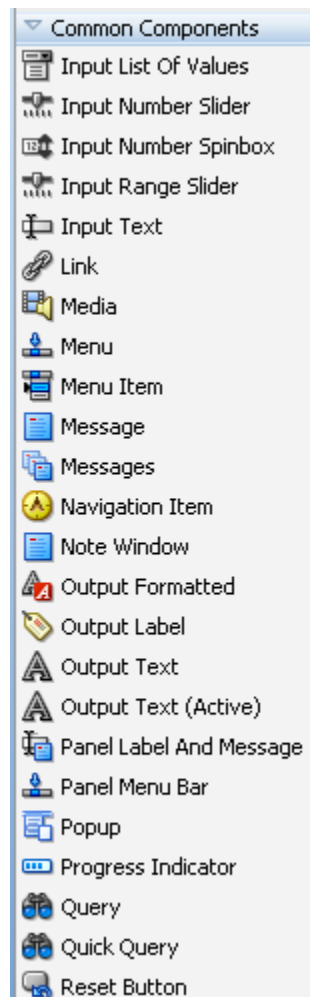
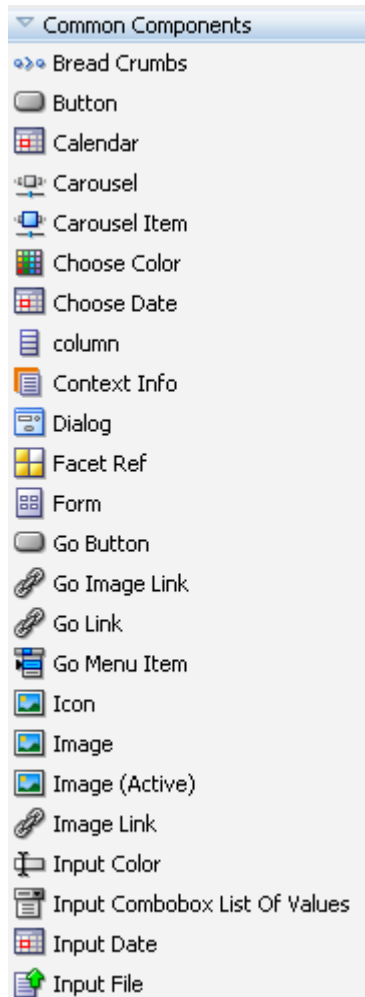
- Dialog and popup windows
- Drag-and-drop
- Navigation menu
- Partial page rendering
- Active data framework – ajax communication
- Advanced data streaming – push communication
- Complete JavaScript API
- Templating
- Skinning
- Accessibility

Layout Components

- Arrange your page using areas
- Change page layout at runtime
 - Splitter
 - Accordion
 - Show detail
- Advanced layouts
 - Tabbed
 - Dashboards
 - Borders

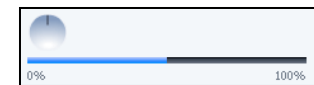
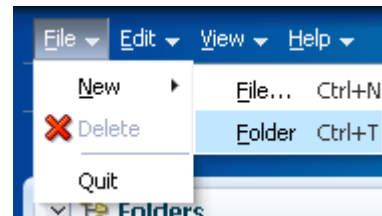
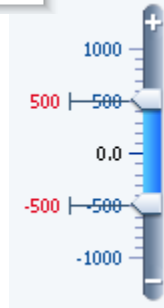
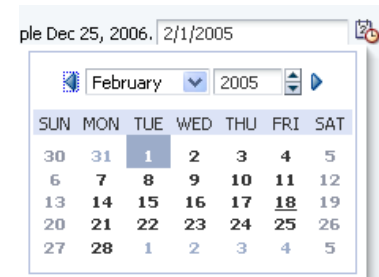


Common Components

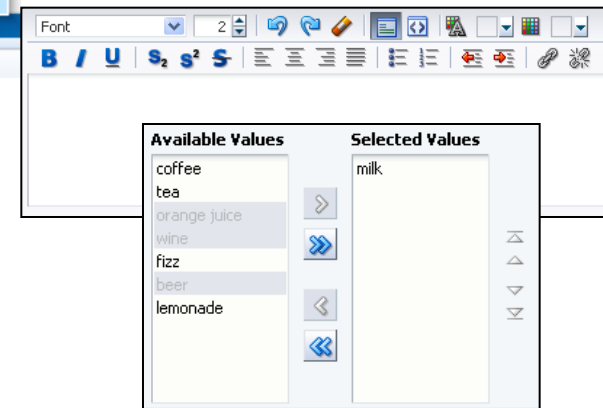


Common Components

- Input/Output components
 - Text items, check boxes, radio buttons, date
- Selection components
 - Single select, multiple select, combo box, LOV, shuttle
- Tables and Trees
- Navigation components
- Others
 - Progress bar
 - bread crumbs ...



| Directory Name | Icon | Last Modified |
|--------------------|---------------------|--------------------|
| My Files | /afr/folder_ena.png | |
| META-INF | /afr/folder_ena.png | 11/10/2009 4:52 PM |
| WEB-INF | /afr/folder_ena.png | 11/10/2009 4:55 PM |
| classes | /afr/node_ena.png | 11/10/2009 4:52 PM |
| lib | /afr/node_ena.png | 11/10/2009 4:52 PM |
| menu | /afr/node_ena.png | 11/10/2009 4:52 PM |
| components | /afr/folder_ena.png | 11/10/2009 4:53 PM |
| confusedComponents | /afr/node_ena.png | 11/10/2009 4:53 PM |
| docs | /afr/folder_ena.png | 11/10/2009 4:53 PM |
| feature | /afr/folder_ena.png | 11/10/2009 4:53 PM |
| fileExplorer | /afr/folder_ena.png | 11/10/2009 4:53 PM |
| images | /afr/folder_ena.png | 11/10/2009 4:53 PM |
| includes | /afr/node_ena.png | 11/10/2009 4:53 PM |



Some More Advanced Components

Calendar

Calendar view for March 2010. The calendar shows various events and time slots across the days of the month. Key events include:

- 2:00 PM time 72 ends at 3/4/10 4:00 PM PDT
- allday 70 ends on 3/7/10
- time 36 ends at 3/11/10 12:00 AM PDT spans full week
- 9:00 AM time 81
- 8:00 AM time 4
- allday 69
- allday 112 ends on 3/7/10
- time 68 ends at 3/12/10 12:00 AM PDT
- time 36 ends at 3/11/10 12:00 AM PDT spans full week
- 9:00 AM time 84
- 8:00 AM time 8
- time 73 ends at 3/9/10 4:00 PM PDT -- Yosemite
- 8:00 AM time 7
- 4:30 PM time 48 re
- 3:00 PM time 44 re
- 3:00 PM time 45 re
- 3:00 PM time 46 re
- 10:00 AM time 121
- 8:00 AM time 9
- 9:00 AM time 85
- 4:30 PM time 49 re
- 8:00 AM time 10
- 9:00 AM time 86
- 8:00 AM time 11
- 8:00 AM time 13
- 10:00 AM time 124

Query

Query Builder interface showing search criteria:

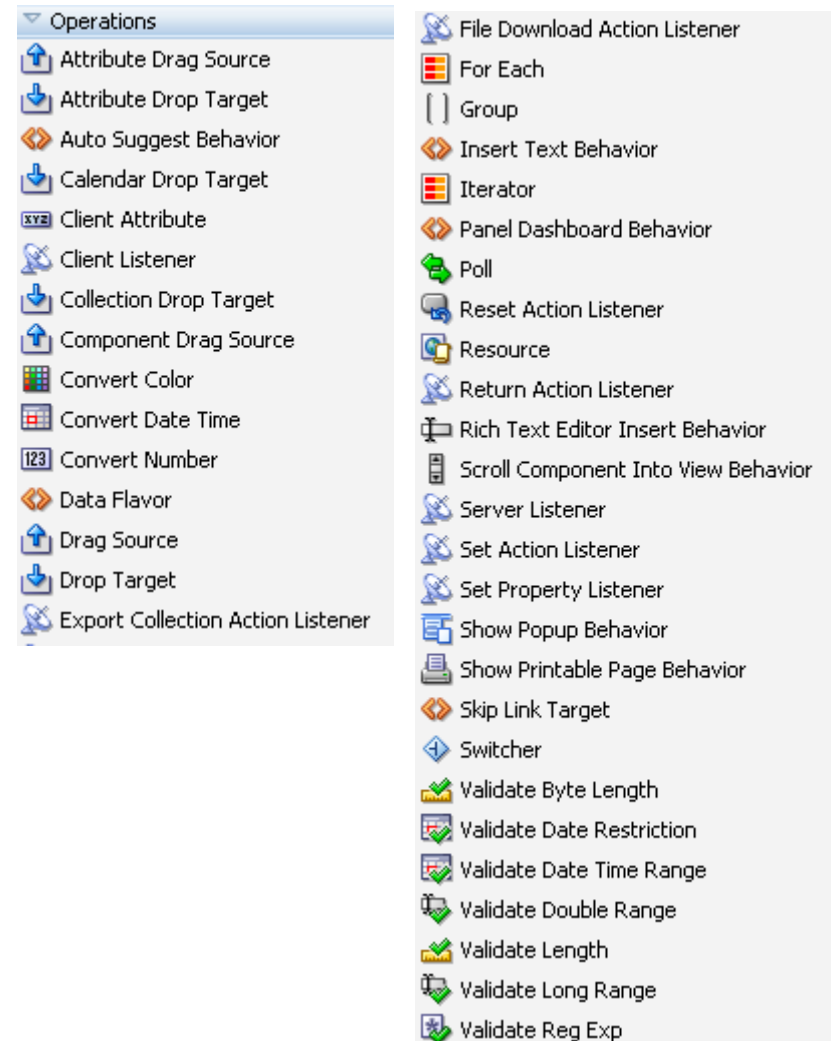
- Search: Basic
- Match: All Any
- * Employee Name: Joe
- * Department Number: Equals 529
- Hire Date: Before 6/8/2007
- Buttons: Search, Reset, Save..., Add Fields

Carousel

Carousel displaying a series of movie posters. The central poster is **Monty Python and the Holy Grail**. Below the carousel, the text **Monty Python and the Holy Grail** is displayed, and a progress indicator shows **17 of 30**.

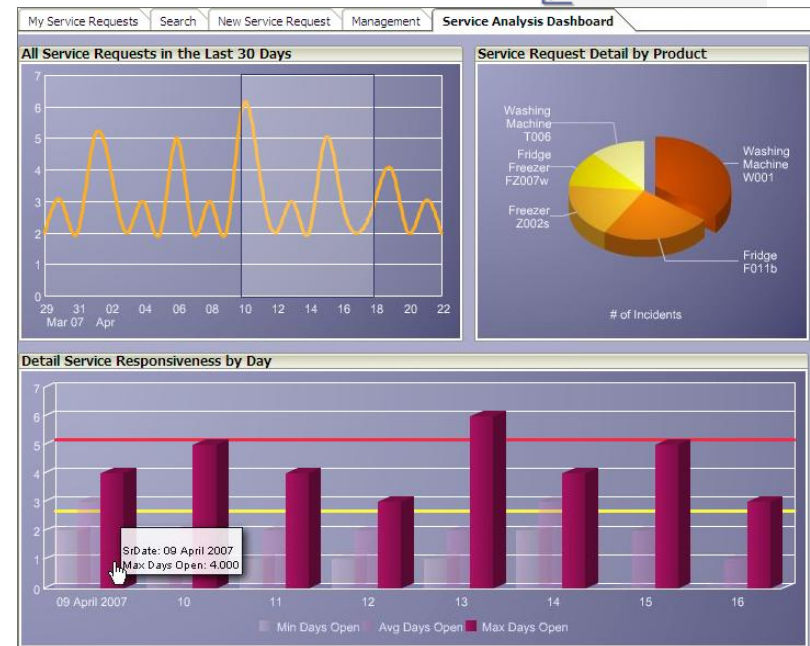
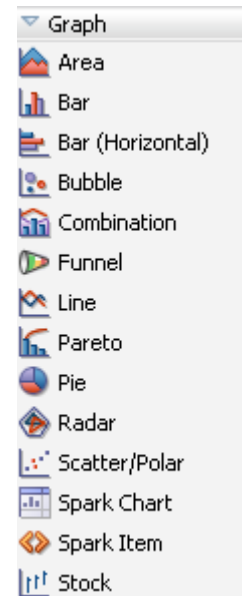
Operation Components

- Eliminate JavaScript Coding:
- Drag and drop
- Autosuggest
- Pop up
- Poll
- Validators
- Listeners
- Convertors
- Export
- Print



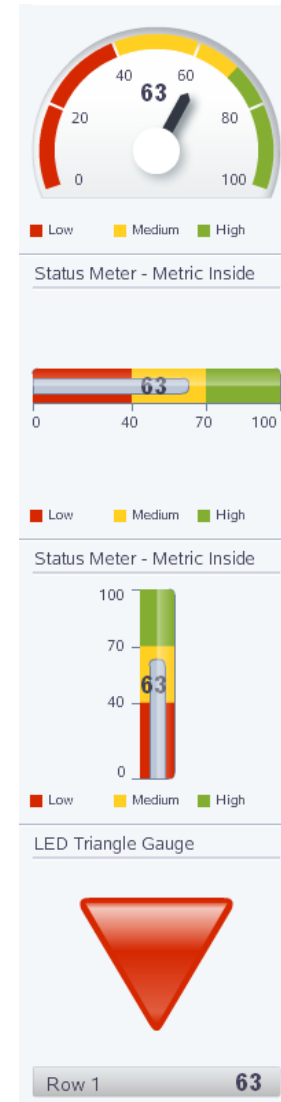
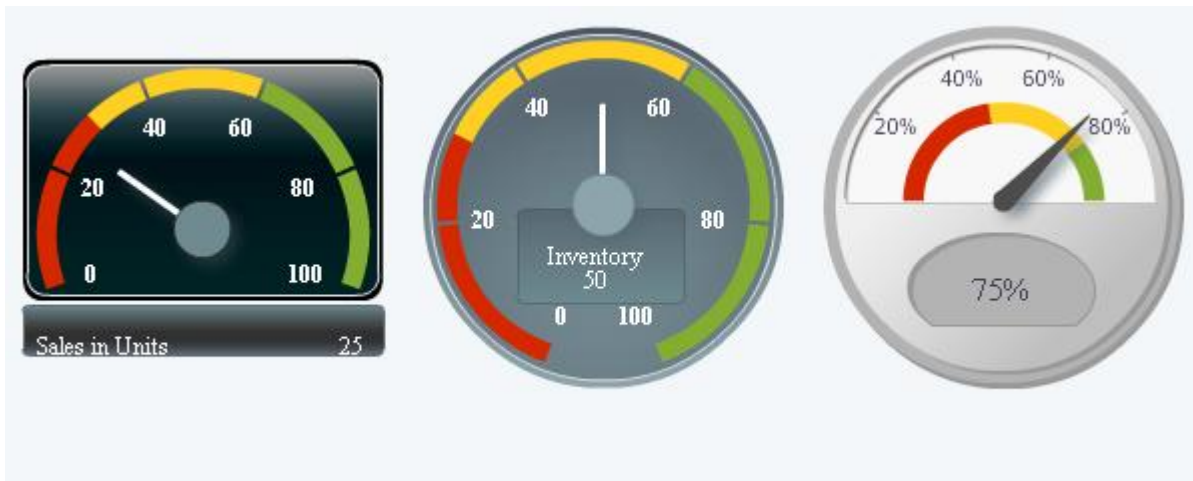
Graphs

- 50 graph types
- Flash or PNG rendering
- Interactive: zoom, scroll, time selector window, line and legend highlighting/fading, dynamic reference lines and areas



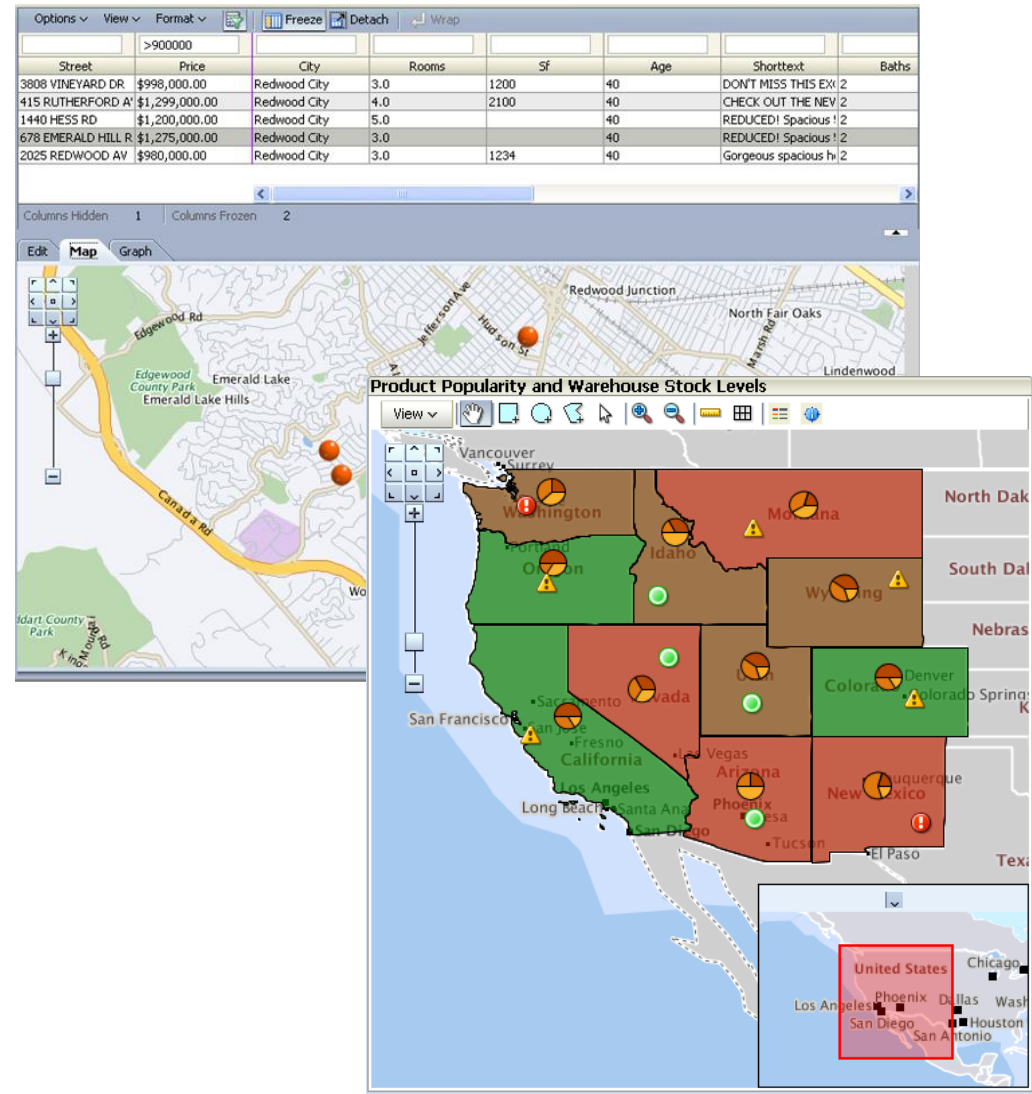
Gauges

- Dial: standard and threshold
- Status Meter: standard and threshold
- LED



Geographic Maps

- Represents business data on a geographic map
- Supports superimposing multiple layers of information on a single map
- Available Map types are:
 - Thematic
 - Pie
 - Bar
 - Point



Pivot Table

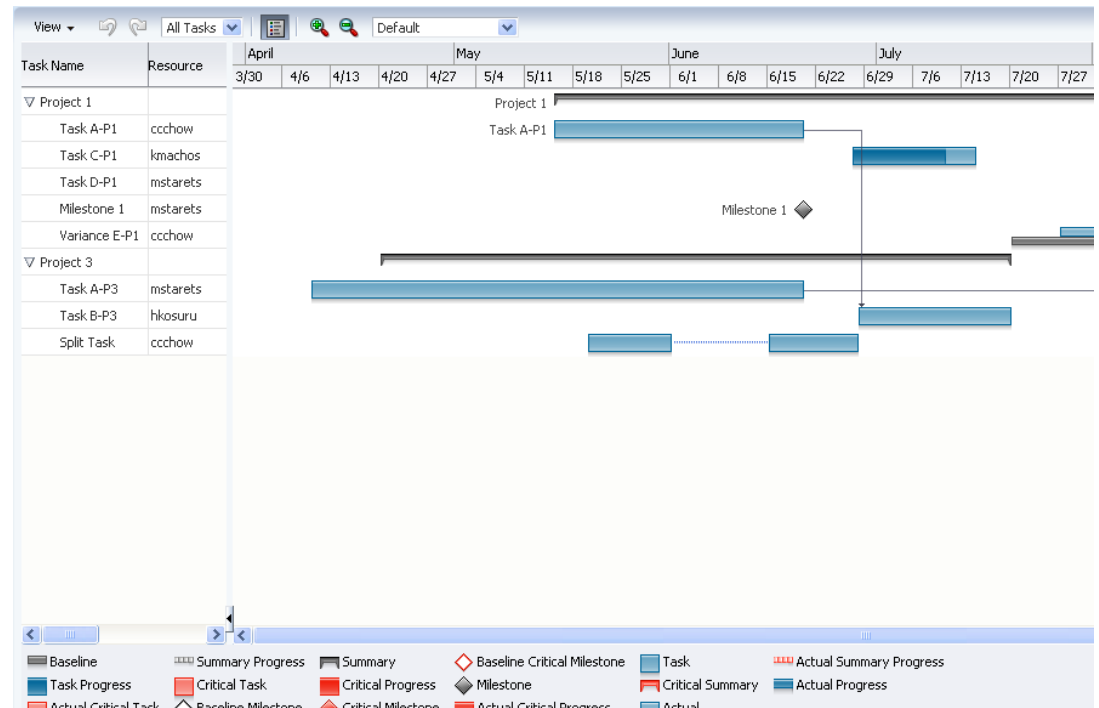
- Multiple layers of data labels on a row or a column edge
- Automatic calculation of subtotals and totals
- Drag and drop pivoting
- Drill and edit enabled

| | | Sales | | | | | | |
|--------|--------|--------------|---------|---------|--------|---------|---------|------------------|
| | | All Channels | | | | | | |
| | | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | Time Total (sum) |
| Tents | World | 5000.0 | 10000.0 | 20000.0 | 8000.0 | 18000.0 | 30000.0 | |
| | Boston | 125.0 | 250.0 | 500.0 | 200.0 | 400.0 | 900.0 | |
| Canoes | World | 3750.0 | 7500.0 | 15000.0 | 5000.0 | 12000.0 | 29000.0 | |
| | Boston | 375.0 | 750.0 | 1500.0 | 450.0 | 1100.0 | 3100.0 | |

| | ▽ First Quarter | | | ▷ Second Quarter |
|----------|-----------------|----------|-------|------------------|
| | January | February | March | |
| Direct | 5,000 | 5,400 | 5,800 | 7,200 |
| Indirect | 500 | 540 | 580 | 1,711 |

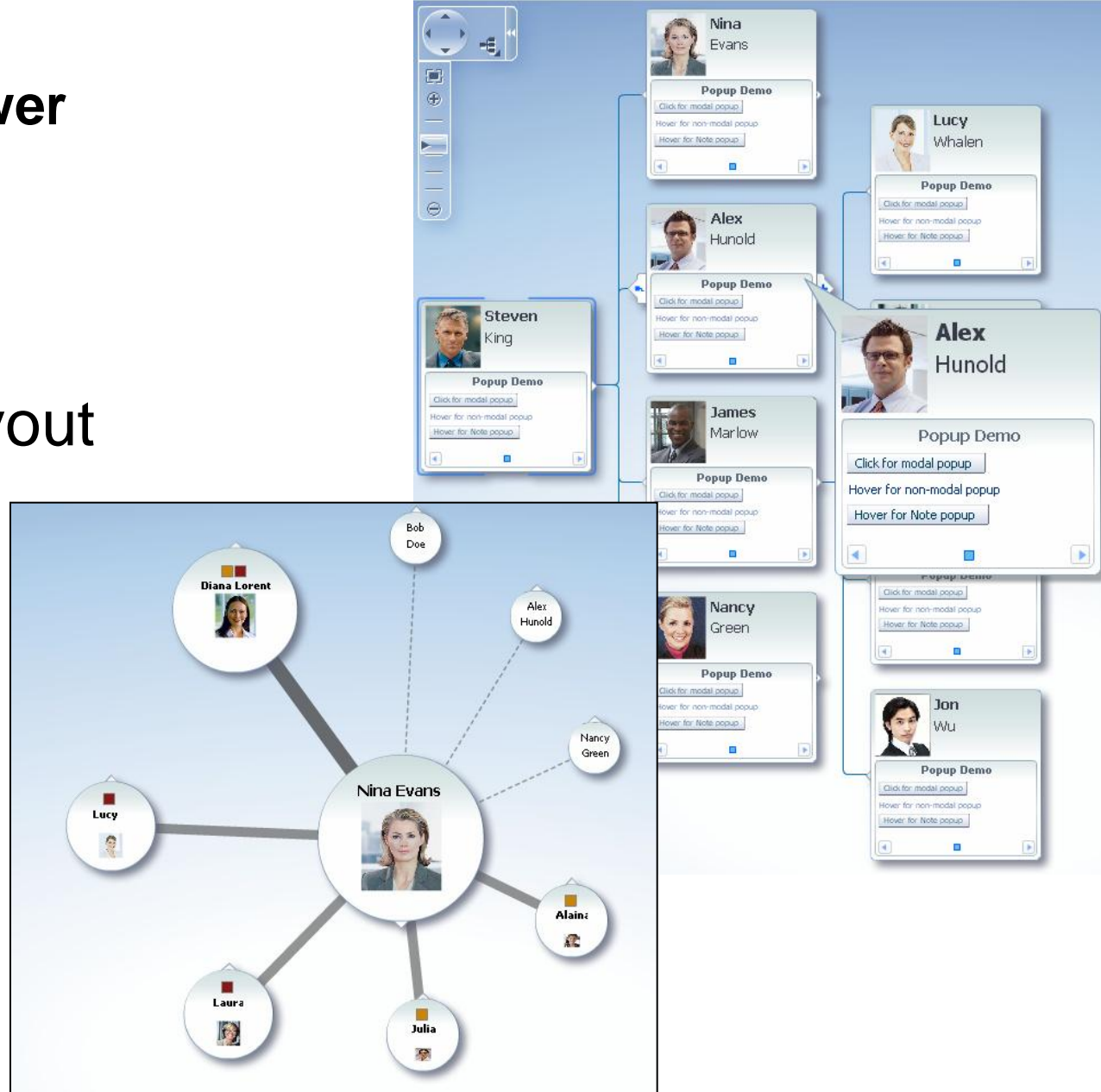
Gantt Chart

- Track tasks and resources on a Time
- Gantt Chart types
 - Project Gantt
 - Scheduling Gantt
 - Resource Gantt



Hierarchy Viewer

- Drill
- Change Layout
- Zoom
- Cards
- Pop-up

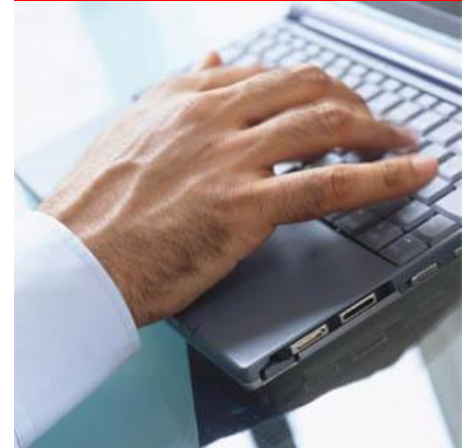




Demonstration

Conclusion

- Oracle ADF Faces – a Simpler Way to RIA
 - Rich component set
 - Ajax built-in
 - Data visualization
 - Capable underlying framework
 - Easy to develop with



Learn More Online – JDeveloper and ADF on OTN

- <http://oracle.com/technology/jdev>
- Tutorials
- Demos
- Books
- Discussion Forum
- How-to's
- Samples
- More

Related Oracle Press Books



- Quick Start Guide to **Oracle Fusion Development**
- **Oracle JDeveloper 11g** Handbook
- **Oracle Fusion** Developer Guide

