



ORACLE[®]

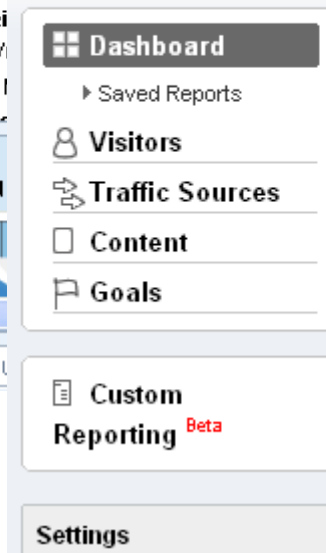
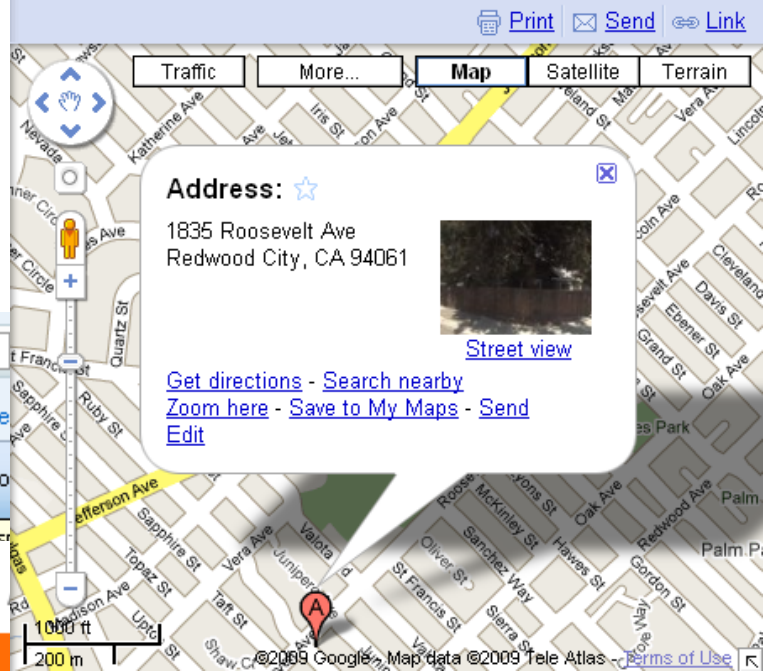
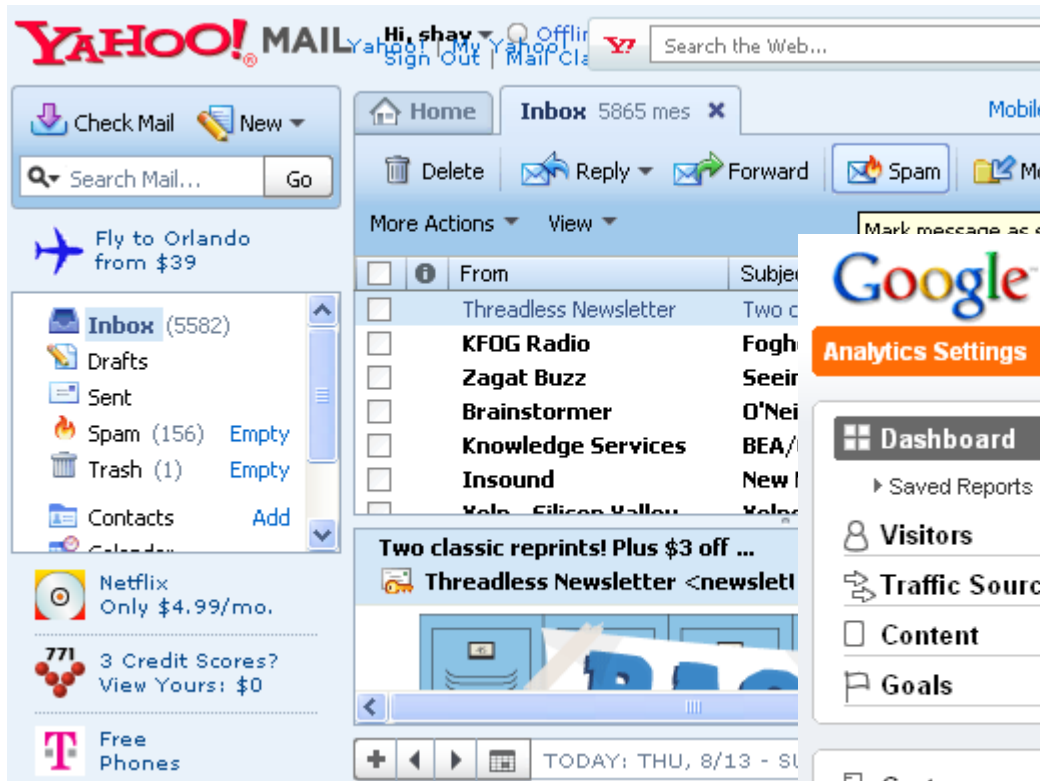
RIAs and Web 2.0 Development Made Simple

Dana Singleterry

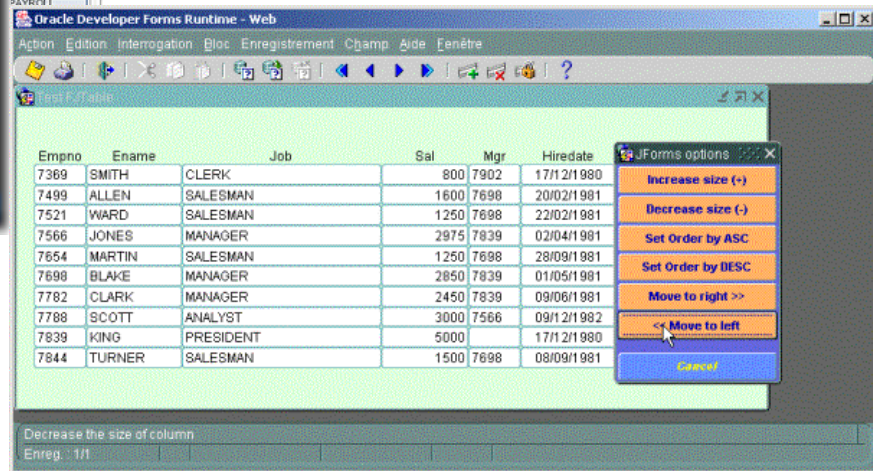
Principal Product Manager – Oracle JDeveloper

<http://blogs.oracle.com/dana>

Your Users are Using These at Home:



How Are Your Applications Look?



What's The Difference?

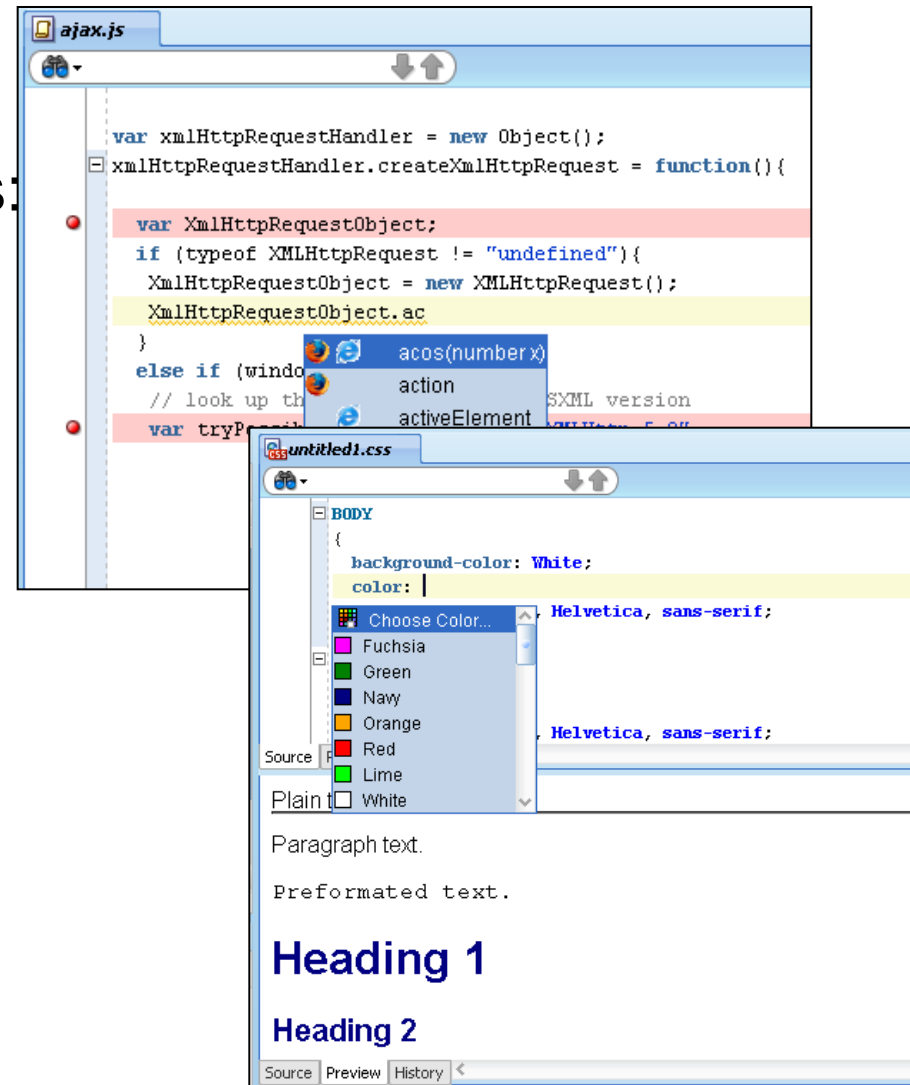
- Better Looking UI
- Better User Interaction
- Better Feedback
- Better Data Visualization
- Better Process Flow

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



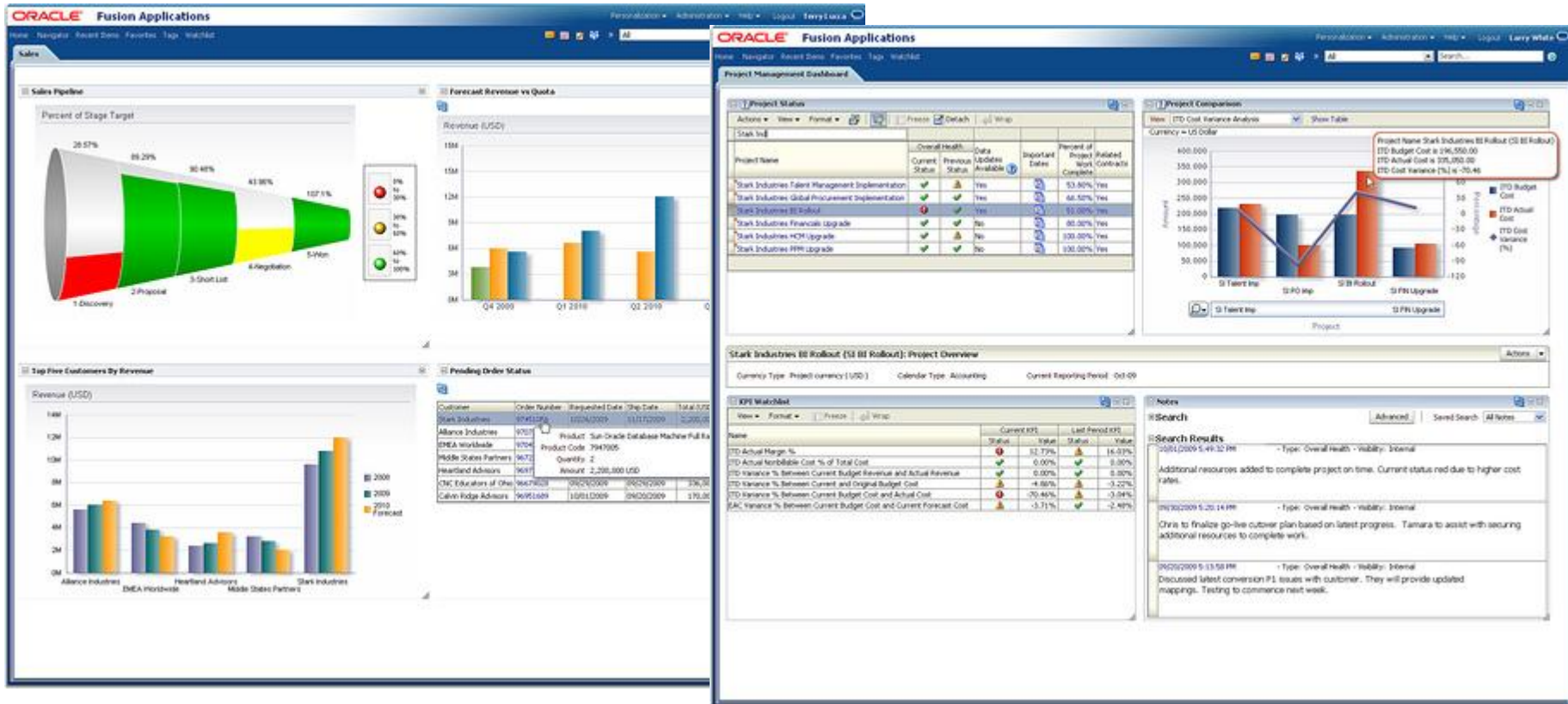
JSF In 60 Seconds

- 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

Oracle ADF Faces – Oracle's UI Framework

- Component approach to page construction
- Ajax baked-in the component
- Visual and declarative development
- The standard UI platform at Oracle
 - Oracle Fusion Applications
 - Oracle Products
 - Web Center
 - SOA
 - Enterprise Manager

Oracle Fusion Applications



Oracle Fusion Applications



This screenshot shows the 'Talent Review' interface in Oracle Fusion Applications. The top navigation bar is identical to the first screenshot. The main area is titled 'Talent Review' and includes a 'Talent Review Dashboard' section. On the left, there are 'Active Filters' for 'Job Title' (Project Manager, Business Intelligence) and 'Apply Filters'. Below this is a 'Job Title' list with checkboxes for various roles like Portfolio Director, Account Rep, Regional Manager, Consultant, Senior Consultant, and Consulting Manager. A 'Specialty' list on the right includes CRM, Customer Subscription, ERP, HCM, Large Scale Management, Managing Budgets, Procurement, and SCM. The 'Population Distribution' table on the far left shows counts for various talent types: Top Talent (1), Provider Expert (2), Critical Path Expert (1), Emerging Leader (1), Solid Performer (3), Developing Expert (1), Rising Talent (1), Unproven Talent (1), Misaligned Talent (0), and Total (15). The main content area displays a 'Details: Julie Lee' window for Kevin West, Portfolio Director. This window includes a profile picture, contact information, and sections for 'Experience and Qualifications', 'Skills and Qualifications', 'Accomplishments', and 'Areas of Expertise'. The 'Areas of Expertise' section lists 'BE Customer Service Project M'. The bottom of the interface features a 'Performance' section with a 'Previous Rating' slider and a 'Show Progress' checkbox.

Oracle BPM WorkList

ORACLE BPM Worklist Home | Reports | Preferences | Help | Logout

Logged in as jstein

My Tasks | Initiated Tasks | My Staff Tasks

Worklist Views

- Inbox
- My Work Queues
 - Standard Views
 - Due Soon
 - High Priority
 - New Tasks
 - My Views
- Proxy Work Queues
- Shared Views

Actions | Assignee: Me & Group | Status: Assigned | Search: | Advanced

Title	Number	Priority	Assignees	State	Created	Expires
Operations Order Review [701115556]	200081	3	jstein (U)	Assigned	Oct 6, 2009 10:56 AM	
Operations Order Review [45685016066567]	200082	3	jstein (U)	Assigned	Oct 6, 2009 11:31 AM	
Operations Order Review [701124444]	200088	3	jstein (U)	Assigned	Oct 6, 2009 3:22 PM	
Operations Order Review [68023]	200089	3	jstein (U)	Assigned	Oct 6, 2009 3:48 PM	

Operations Order Review [68023] Actions

Task Details

Order [Warning: Delivery Date at Risk] View Flow Trace

Account Id: **35IA-2MD27** Order Number: **68023** Order Total: **124418.98**

Line Number 1

Integration Id	Net Price	Part Number	Product	Quantity Requested
9SIA-9KD20	123499	ISAT100	Vision Enterprise Servers	1

Task Status

On Time 3 Days 3-10 Days 10+ Days

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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 user is logged in as "Shay Shmeltzer" in their "Personal Space".

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 Content Area:

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

Create | Today | Day | Week | Month | List

October 2009

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				01	02	03

Oracle Enterprise Manager

ORACLE Enterprise Manager 11g Fusion Middleware Control Setup Help Log Out

Farm jtpm_domain

Logged in as weblogic
Page Refreshed Oct 9, 2009 3:27:35 PM PDT

Farm_jtpm_domain

Deployments

Up (24)

100%

Name	Status	Target
Application Deployments		
Internal Applications		
Resource Adapters		
DefaultToDoTaskFlow	↑	soa_server1
FMWdh_application1	↑	soa_server1
riams_application1	↑	AdminServer
SF311_Mapping_Sample	↑	AdminServer
StoreFrontService_SDOService	↑	soa_server1
worklistapp	↑	soa_server1
SOA		
soa-infra	↑	soa_server1

Fusion Middleware

Up (6)

100%

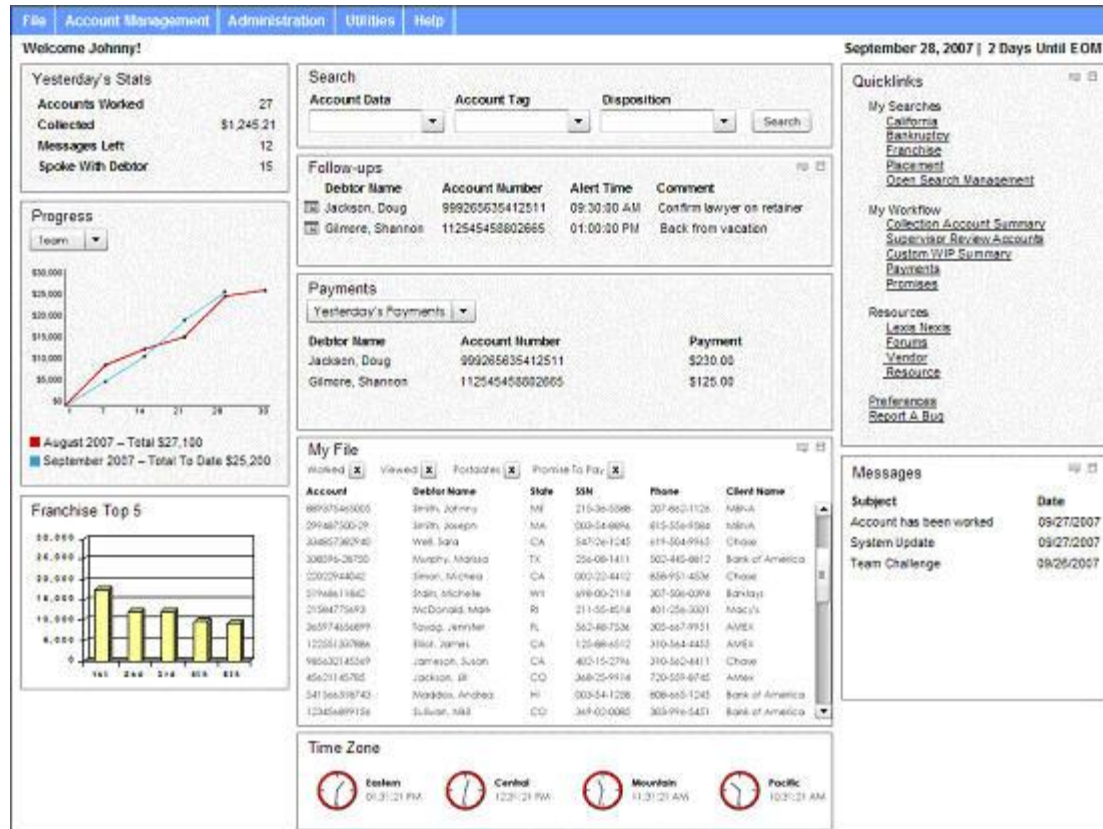
Name	Status	Host	CPU Usage (%)
WebLogic Domain			
jtpm_domain			
AdminServer	↑	ria.us.oracle.com	
soa_server1	↑	ria.us.oracle.com	
Metadata Repositories			
mds-owsm		ria.us.oracle.com	
mds-soa		ria.us.oracle.com	
User Messaging Service			
usermessagingdriver-email	↑	ria.us.oracle.com	
usermessagingserver (soa)	↑	ria.us.oracle.com	
Web Tier			
ohs1	↑	ria.us.oracle.com	0.00
webcache1	↑	ria.us.oracle.com	0.00

Farm Resource Center

Before You Begin

- Introduction to Oracle Fusion Middleware
- Understanding Key Oracle Fusion Middleware Farm Concepts

Square Two Financial



MedNet

Action Information

Apply Undo Create Authorisation... View Attach Claims... Print Announcement Letter Print Outpatient Information Exit Sales Entity...

Outpatient Insert Delete First Previous Next Last

* Insured Member Status OPEN Effective Date
 Policy Number Category Expiry Date
 Case Nbr Outpatient Nbr Insurance Company Deletion Date

Search

Outpatient Procedures Notes

Provider

Notifying Information

Date Time
 Method
 Notifying Person
 Notified Person's Name

Outpatient Information

Prescription Date
 External Reference
 Estimated Cost

Treatment Plan

View Insert Delete Detach

Procedure Type	Procedure	Date	Quantity
No rows yet.			

Diagnosis

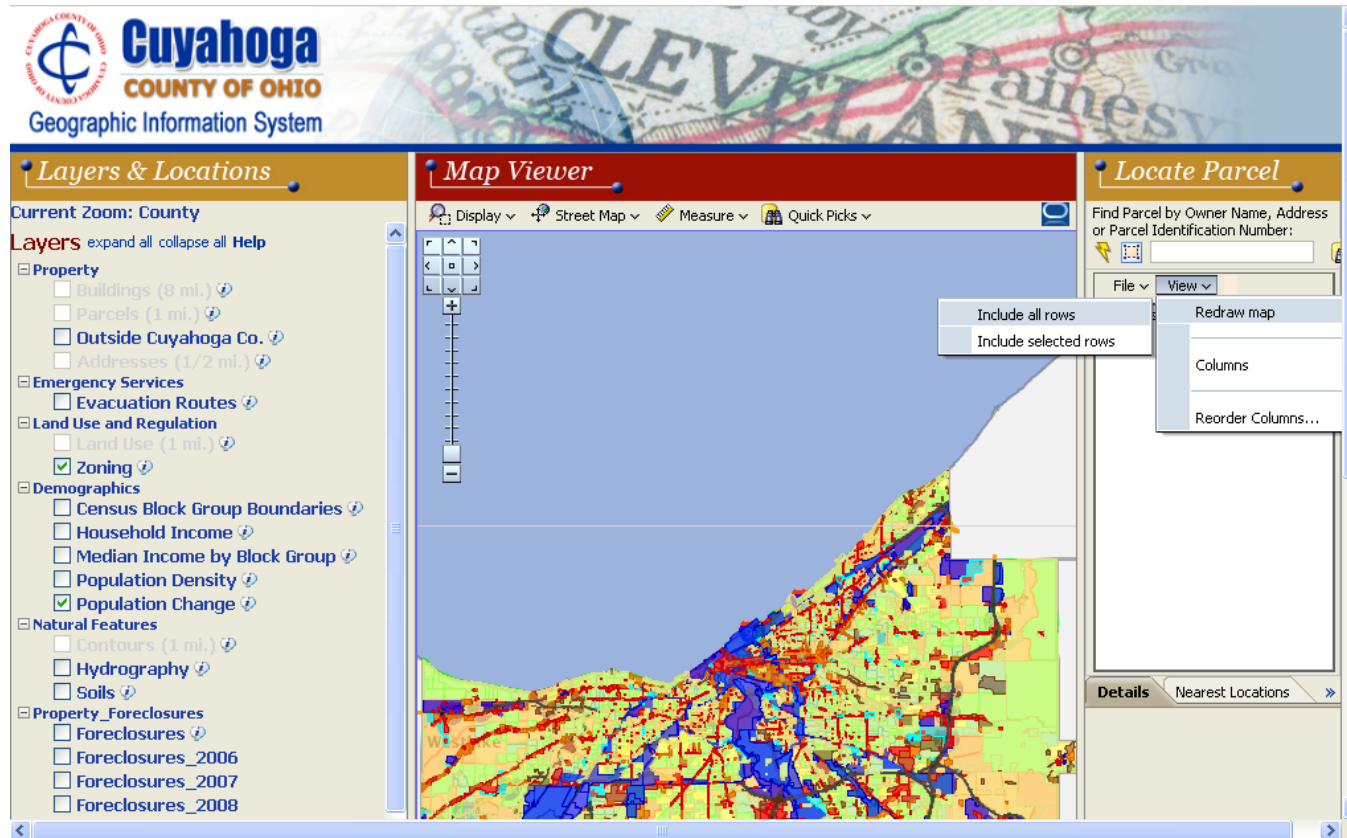
View Insert Delete Detach

Diagnosis Type	Diagnosis Code	Date	Qualifier	Print
No rows yet.				

Internal Notes
Report Notes

Apply Undo

Cuyahoga County



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
- Pool
- Popup
- ProgressIndicator
- ProjectGantt

Q

- Query
- QuickQuery

R

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

S

- ScatterGraph
- SchedulingGantt
- ScrollComponentInViewBehavior
- 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
- ValidateRegExp

X

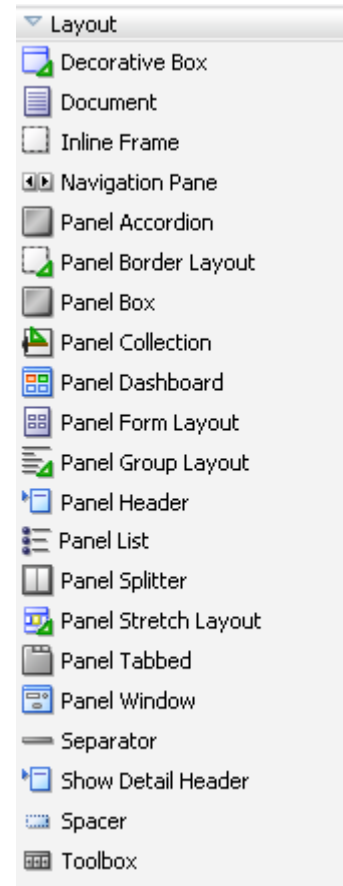
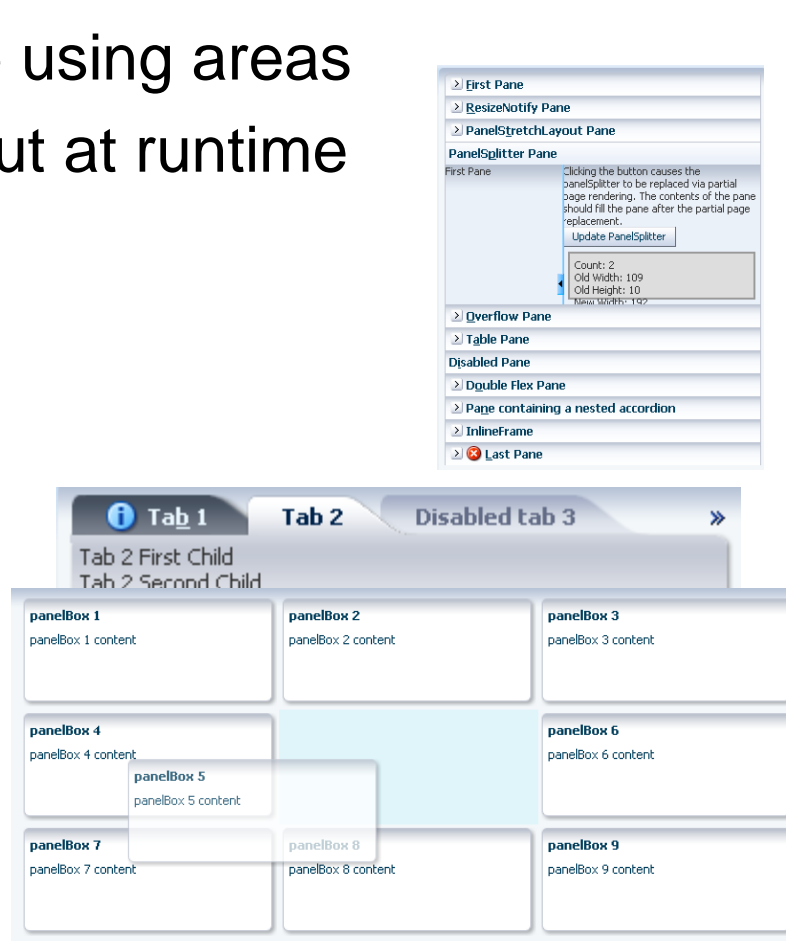
- XmlContent

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

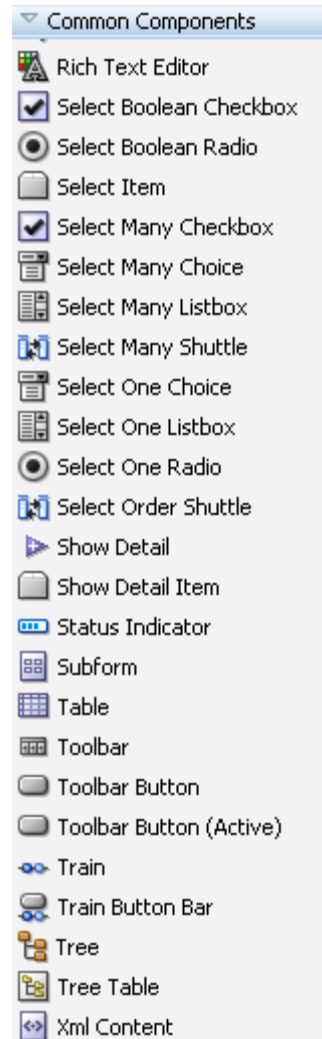
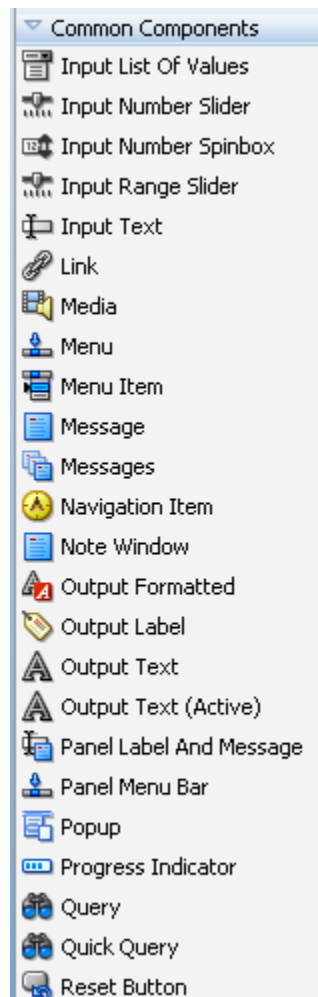
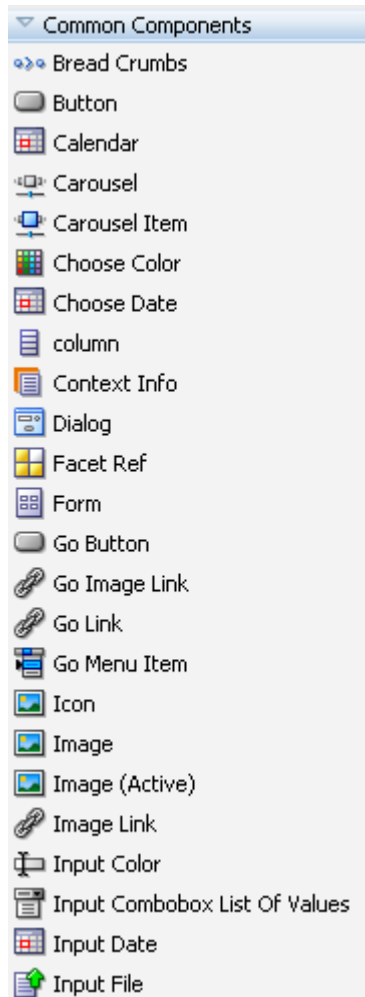




Demonstration

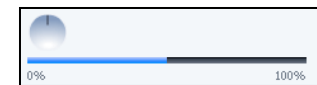
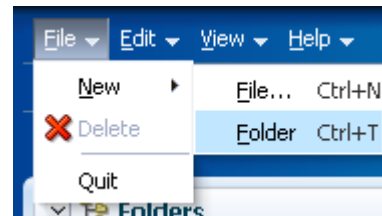
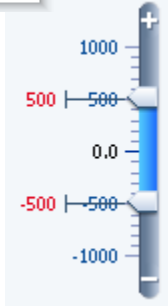
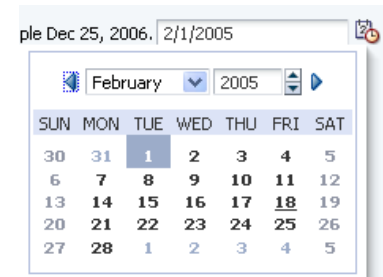
Arranging a Page with Layout Components

Common Components

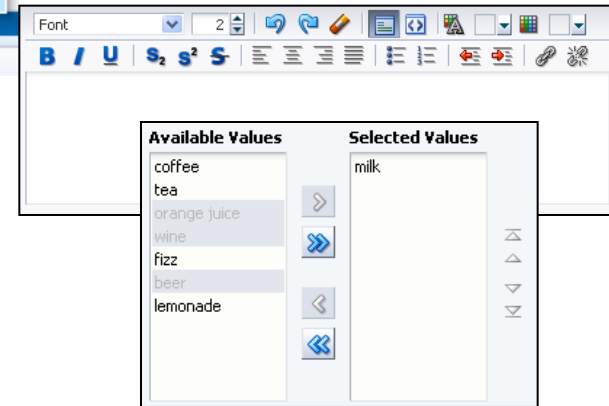


Common Components

- 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 ...

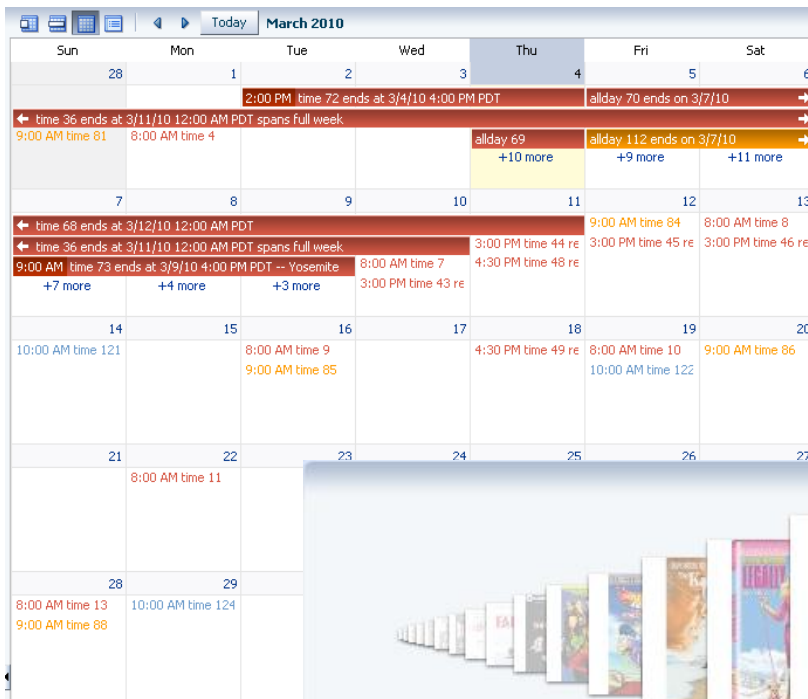


Directory Name	Icon	Last Modified
My Files	/afr/folder_ena.png	
META-INF	/afr/folder_ena.png	11/10/2009 4:52 PM
WEB-INF	/afr/folder_ena.png	11/10/2009 4:55 PM
classes	/afr/node_ena.png	11/10/2009 4:52 PM
lib	/afr/node_ena.png	11/10/2009 4:52 PM
menu	/afr/node_ena.png	11/10/2009 4:52 PM
components	/afr/folder_ena.png	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



Query

A screenshot of a query builder interface. It features a "Search" section with a "Basic" tab. The search criteria include:

- Match: ☐ All ☐ Any
- * Employee Name: (marked as * Required)
- * Department Number: Equals
- Hire Date: Before (marked as * Required)

Buttons at the bottom include "Search", "Reset", "Save...", and "Add Fields".

Carousel



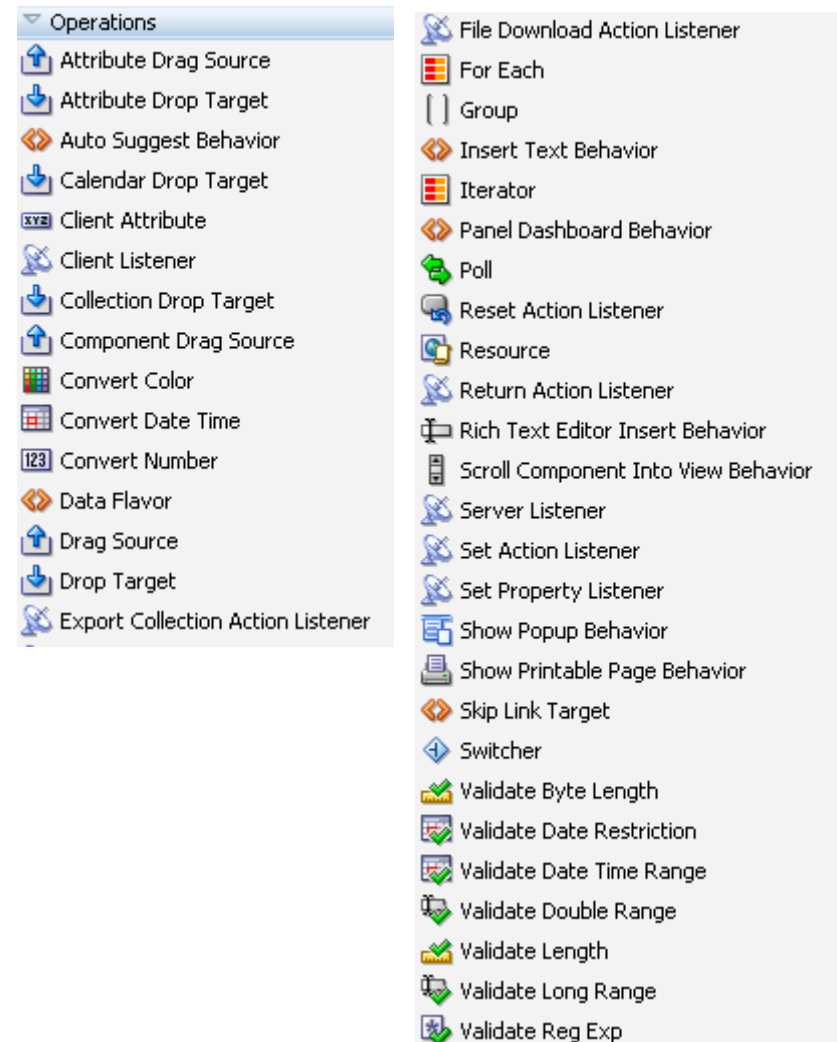


Demonstration

Displaying Data with Common Components

Operation Components

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





Demonstration

Adding Client Functionality with Operation Components

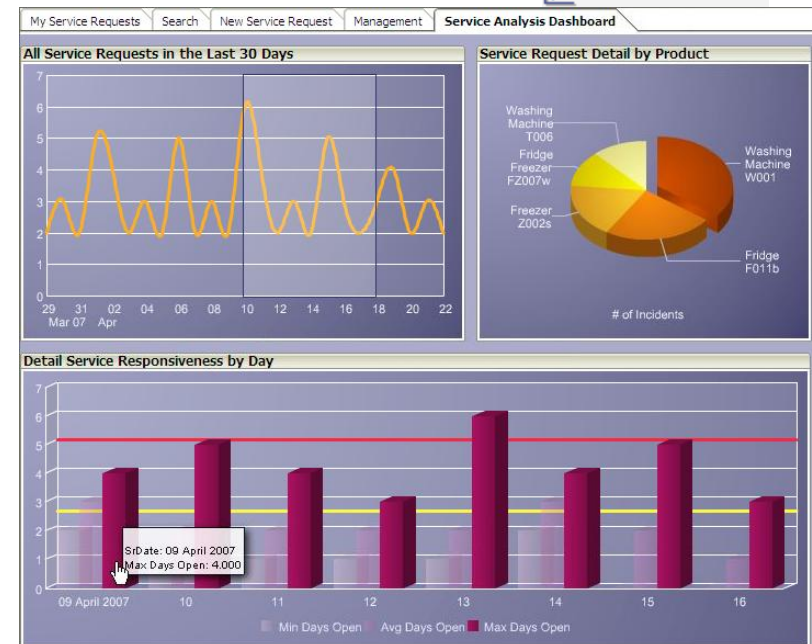
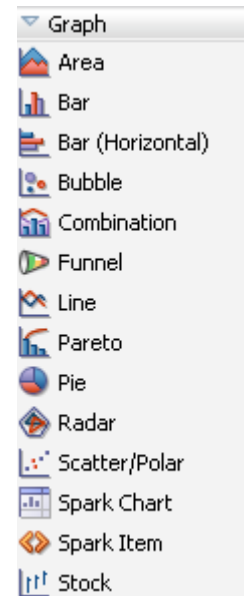


Demonstration

Framework Capabilities

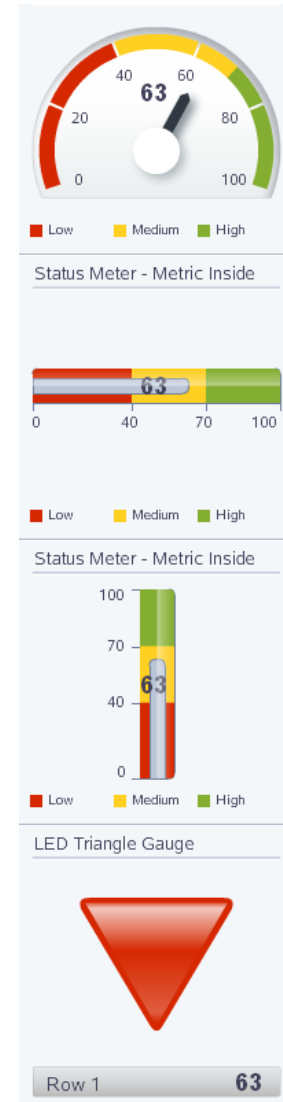
Graphs

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



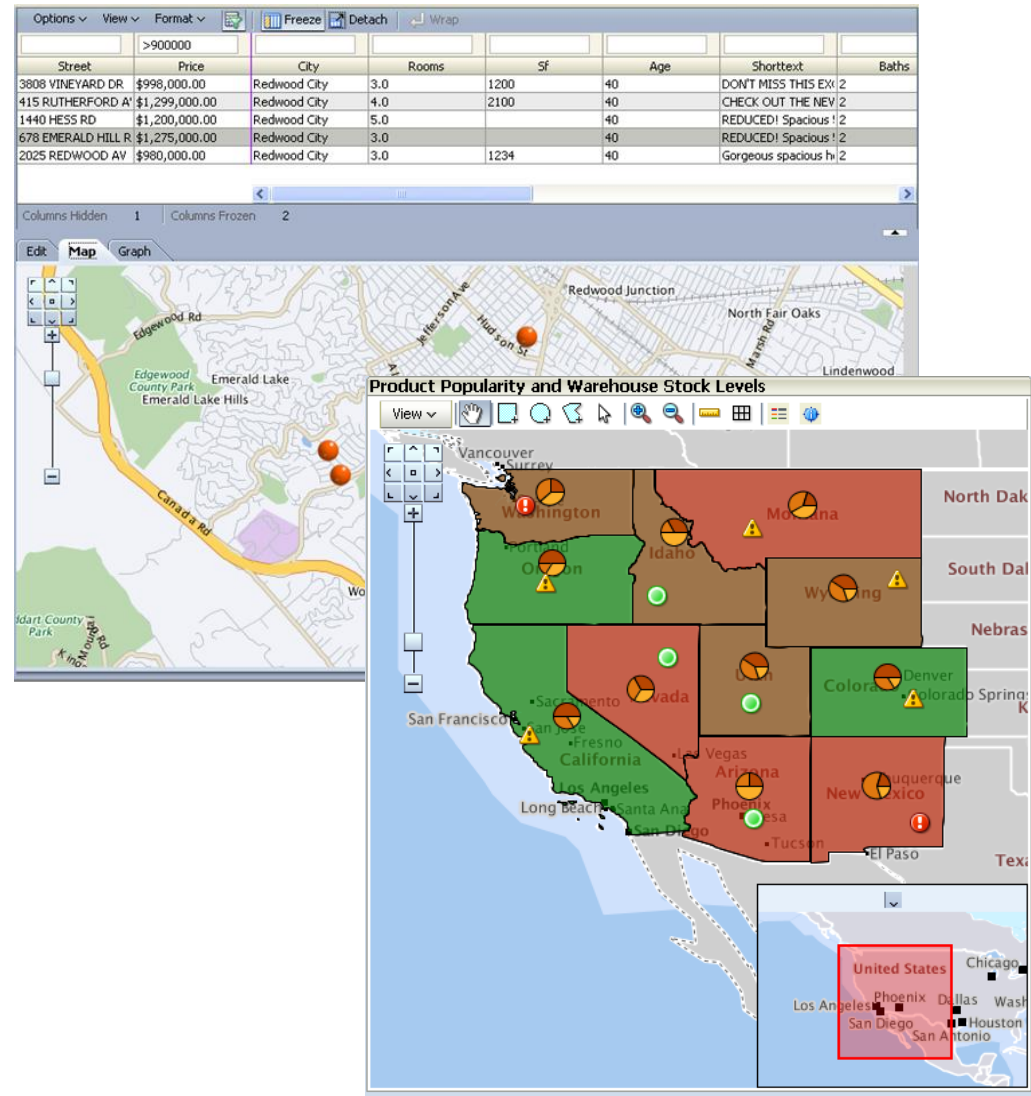
Gauges

- 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

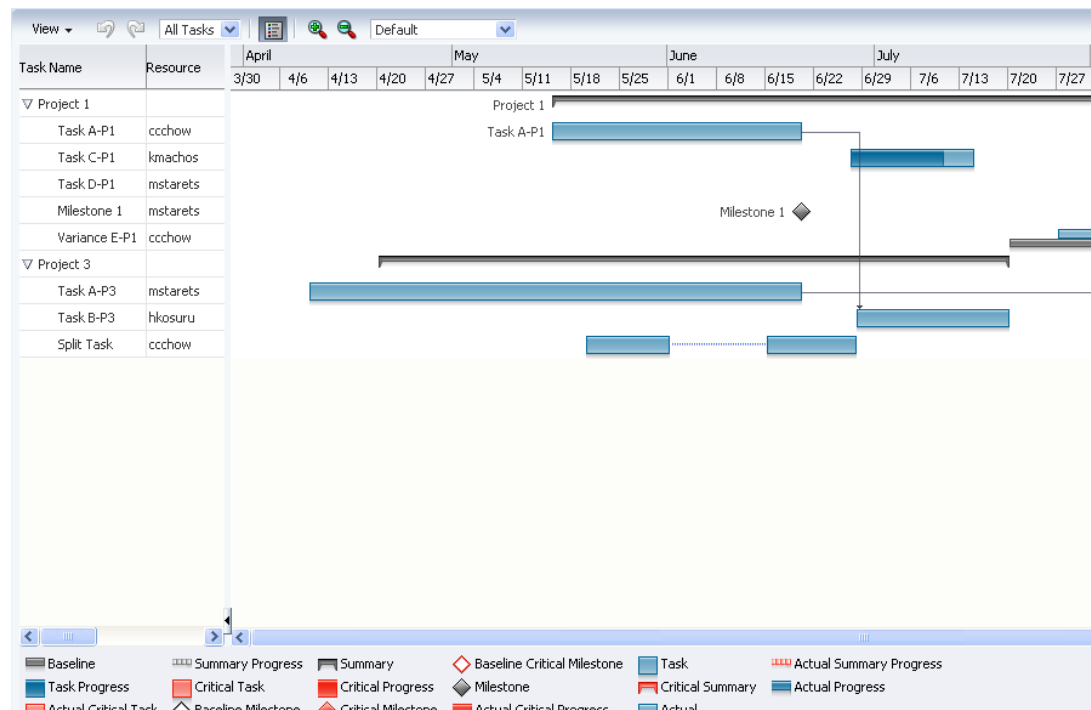
- Multiple layers of data labels on a row or a column edge
- Automatic calculation of subtotals and totals
- Drag and drop pivoting
- Drill and edit enabled

		Sales						
		All Channels						Time Total (sum)
		2005	2006	2007	2008	2009	2010	
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

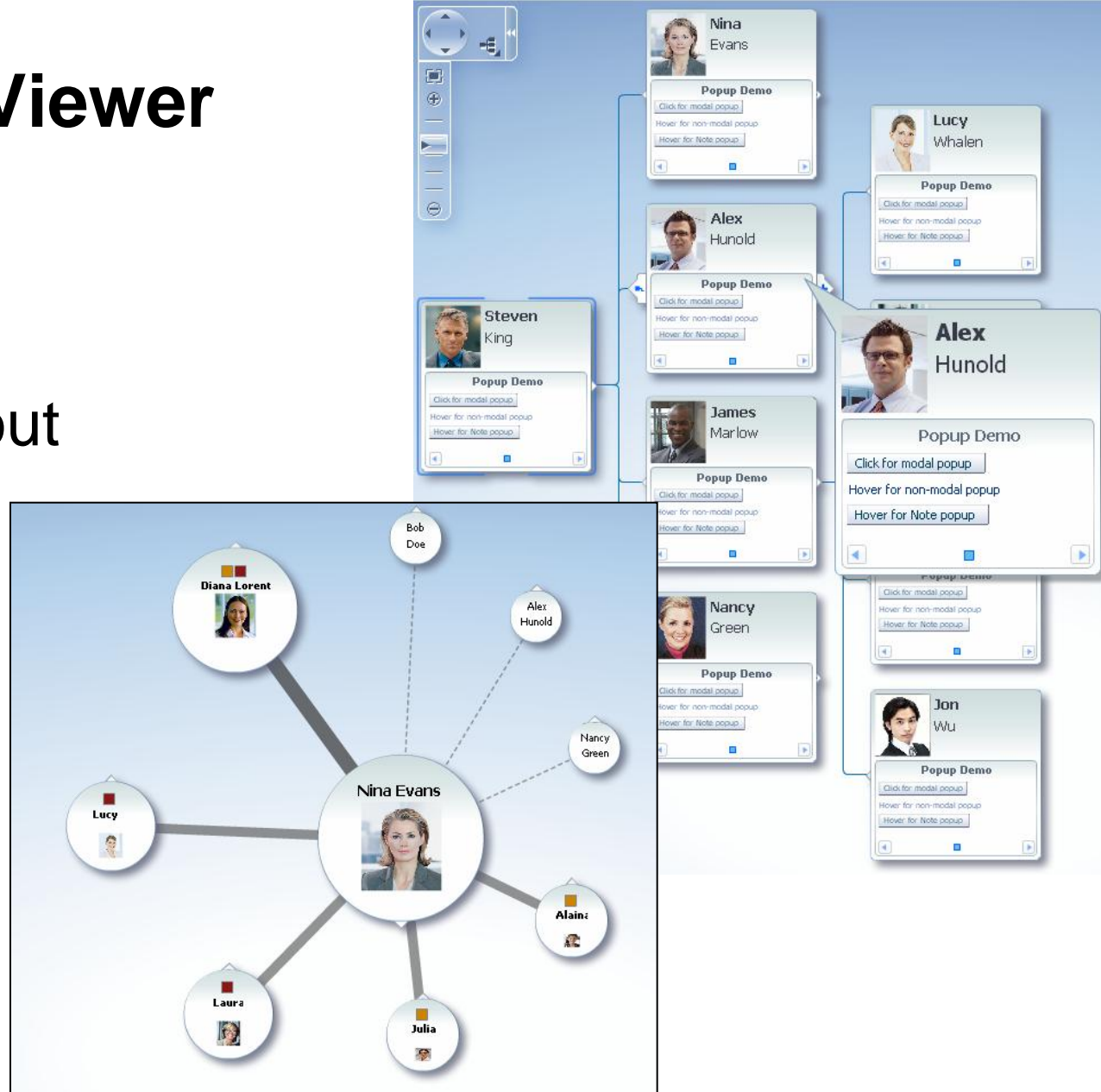
Gantt Chart

- 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



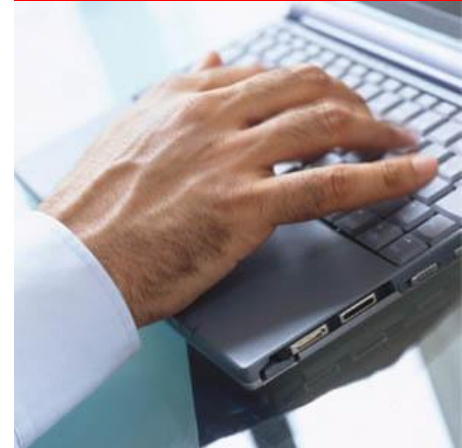


Demonstration

Data Visualization

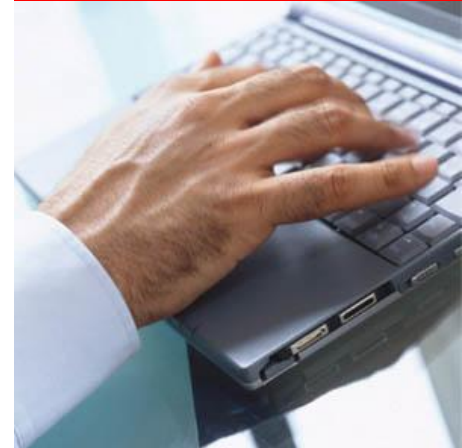
Conclusion

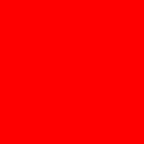
- Oracle ADF Faces – a Simpler Way to RIA
 - Rich component set
 - Ajax built-in
 - Data visualization
 - Capable underlying framework
 - Easy to develop with



Learn More

- [Oracle.com/technology/jdev](https://www.oracle.com/technology/jdev)
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 - Discussion forum
 - Blogs
 - Samples
 - Books
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