Innovate2010

The Rational Software Conference

Let's build a smarter planet.

What's Coming Next in the RAD Portal Toolkit for Portal Application Development

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Team Lead – RAD Portal Tool kit

Disclaimer

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Agenda

- Exceptional Web Experience Overview
- Rational Application Developer Portal Tool Kit Overview
- Demonstration of Rational Application Developer Portal Tool Kit
- Question and Answer Session

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An Exceptional Web Experience…

Generates strong customer loyalty

Has a wow factor

Is adaptable to changing markets

First Impression of your business lends credibility

All built on a technology foundation you can trust

Our customers are telling us they need to…

Build brand, revenue, and customer satisfaction using online properties

Drive higher value customer interactions via lower cost channels

Increase business responsiveness by consolidating sites

IT business analyst

IT Director of web architecture

VP of online sales

Director of online marketing

VP of customer support

Creative agency

Public Information Officer (Government)

VP of Direct-to-consumer Marketing (Insurance)

Chief Medical Informatics Officer (Healthcare)

WebSphere Portal: Key value propositions and capabilities

User Expectation & Appeal

- **Integration of Web 2.0 features** for a richer, more responsive, and modern user interface
- Full **personalization of user experience**
- Recommendation engine for **cross-selling and customer monitoring**
- **Multi language**, disability access
- **Universal access** (PCs, Mobile phones, TV) for new entry points to service and access

Speed to Market & Reduced Costs

- Component based model for **faster development, re-use, and cost effective deployment**
- **Parallel development** of service and application components
- Shared 'plumbing' code so more time **spend creating business function not reinventing**
- **Powerful customization** capabilities to change look & feel of website **without coding**

Flexibility & Agility

- Flexible **integration of 3rd party content and applications**
- Give **LOB and business users control over their website content and processes** while maintaining IT control over standards and best practices
- **Separation of content from presentation**
- Increased **content re-use and reconfiguration** vs hard coding
- **Easy integration** of web content management and On-line Forms capabilities
- Support for **leading portal standards** to maximize **reuse and investment protection**

Performance & Scalability

- A set of **best practices on building web platforms**, developed and **refined over 6 years** by industry leading portal platform vendor
- Proven to **scale for large numbers** of customers and users
- **Extendable** to other enterprise portal environments

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Reality Check: How will you solve the Web Application development challenges impacting your business

Developer

Deliver successful scalable solutions that exceed expectations

- *How can you quickly deliver code that works, scales easily, and integrates faster?*
- *How do you automate coding and testing tasks so you can focus on the creative solution-building aspect of development?*
- *How do you collaborate with geographically diverse teams and ensure best practices are followed?*
- *How do you make use of emerging technologies to deliver cutting-edge applications when you don't have time to learn?*

Deliver solutions on time, under budget while managing risk

Development Manager

- *How can you reduce risk, and deliver solutions on time, exceeding business expectations under budget?*
- *How do you remove roadblocks to organizing geographically diverse teams and enable better tracking of the project?*

Project Manager

Portal and Portlet development and delivery challenges in times of innovation and constant change

*"Only **34%** of software projects are deemed successful costing over $300B annually"*

*"Only **37%** are satisfied with the speed of software development"*

*"**50%** of outsourced projects are expected to under perform"*

*"Only **42%** of users are satisfied with quality "*

Silos of people, process, and projects

Geographic Barriers

- Poor communication
- Language, culture, time
- Process gaps resulting in rework
- High degree of friction

Organizational Barriers

- Lack of meaningful collaboration
- Weak project governance
- Lack of domain expertise
- Poor LOB oversight
- Security of IP when outsourcing

Infrastructure Barriers

- Incompatible tools / repositories
- Unreliable access artifacts
- Lengthy on-boarding
- Inflexible tooling integration

PTK helps with Agile Portal Development

Facilitates the principles of high-performance teams

Simplification of complex implementations

PTK increases efficiency and shortens the development and test cycle

Working Software

- Wizards, visual design tools and assistive source level tools, get you to your first iteration, faster
- Integrated test and debug capabilities let you unit test every step of the way

Individuals Interactions

- RTC integration
  - Collaborative Debug
- Automated static code analysis
- Process awareness

Respond to Change

- Iterative development support
- Comprehensive refactoring,

Portal Tool Kit Accelerates Portal Development

Web 2.0

Extend SOA and Java EE assets to the glass via dynamic, rich Dojo and AJAX applications

Team Collaboration

Rational Team Concert: Collaborate, Automate, Report

SOA

Assemble Web services and SCA components into heterogeneous business applications

Java EE 6

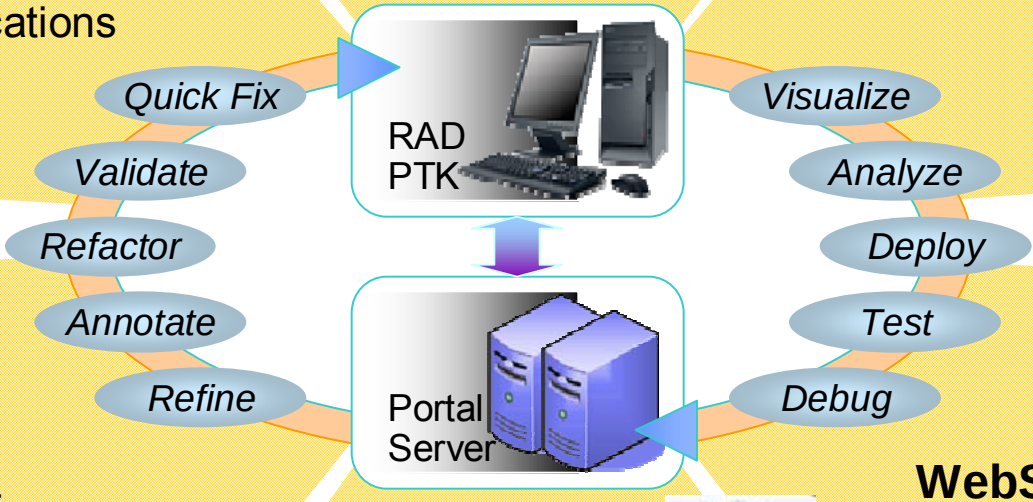
Develop and test Java EE 6 applications with annotation based programming

WebSphere Portal

Visually design portal sites and portlets for WebSphere Portal Server

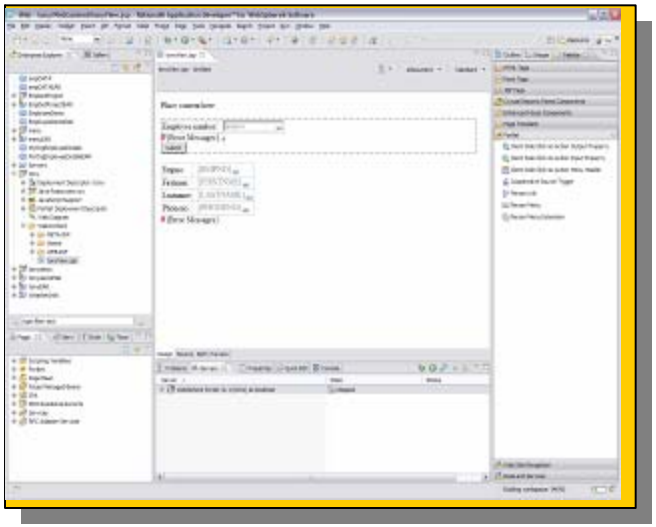
WAS Integration

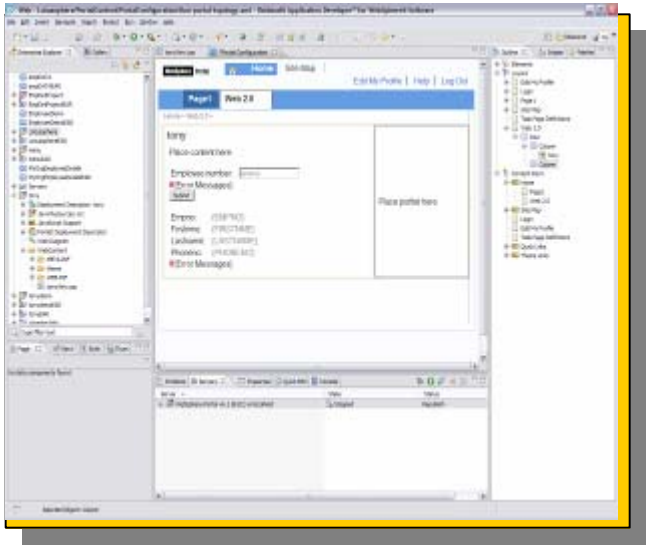
Hot deploy incremental changes to WAS



Rational Application Developer Portal Tools Makes it Easy!

- Automation and auto-code-generation to reduce time to market and learning curve
- Optimized and fully tested code generated according to prescribed standards and best practices
- Improved productivity that enables developers to focus on writing custom business logic
- Seamless integration with other J2EE actors like EJB, JPA, web services etc.
- Portlet generation wizards
- Rich and functional UI components easily integrated into Portlets
- Easy local testing via integrated Portal test server environment
- Has powerful software analysis and reporting capabilities that extend capabilities across architecture, data flow, software metrics and code analysis
- Integration with other IBM products
  - WebSphere Portlet Factory
  - Lotus Forms Designer
  - Rational Automation Framework
  - Rational Team Concert and Many More...





Rational Application Developer Portal Tools Kit

- Support for WebSphere Portal V 7
- Client Side Aggregation 2.0
- Developer Experience Enhancements
- PTK Usability Improvements
  - Portal run-time segregation for WAS/WID
- JSF Best Practices & Performance study
- JPA enabled portlets
- JAX-WS for Portal V7
- Eclipse 3.6
  - Upgrade in place
  - Clean Install
- Additional Enhancements to PTK Web 2.0 Features
- PTK - Portal Dojo Library (dijit support)
  - Easily build compelling, highly interactive portlets
  - Create client-side charts and graphics
- PTK - iWidget Support (v1.1, v2.0)
  - Creation wizard
  - Consume iWidgets and static pages in portal
  - Publish iWidgets and Pages to Portal
  - Test using Mashup enabler v2.0
- PTK – Portal Site Designer Tool
  - Manage layout and content of your Portal site from within RAD
  - Faster than ever preview of Portlets and iWidgets

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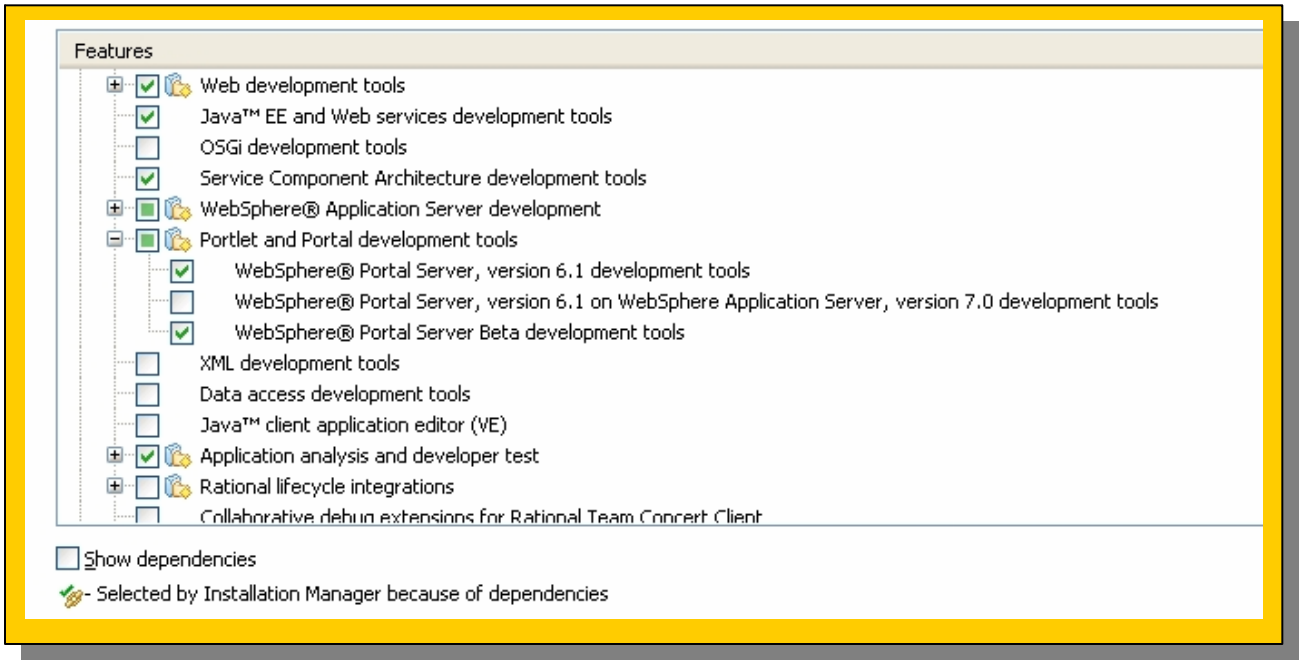
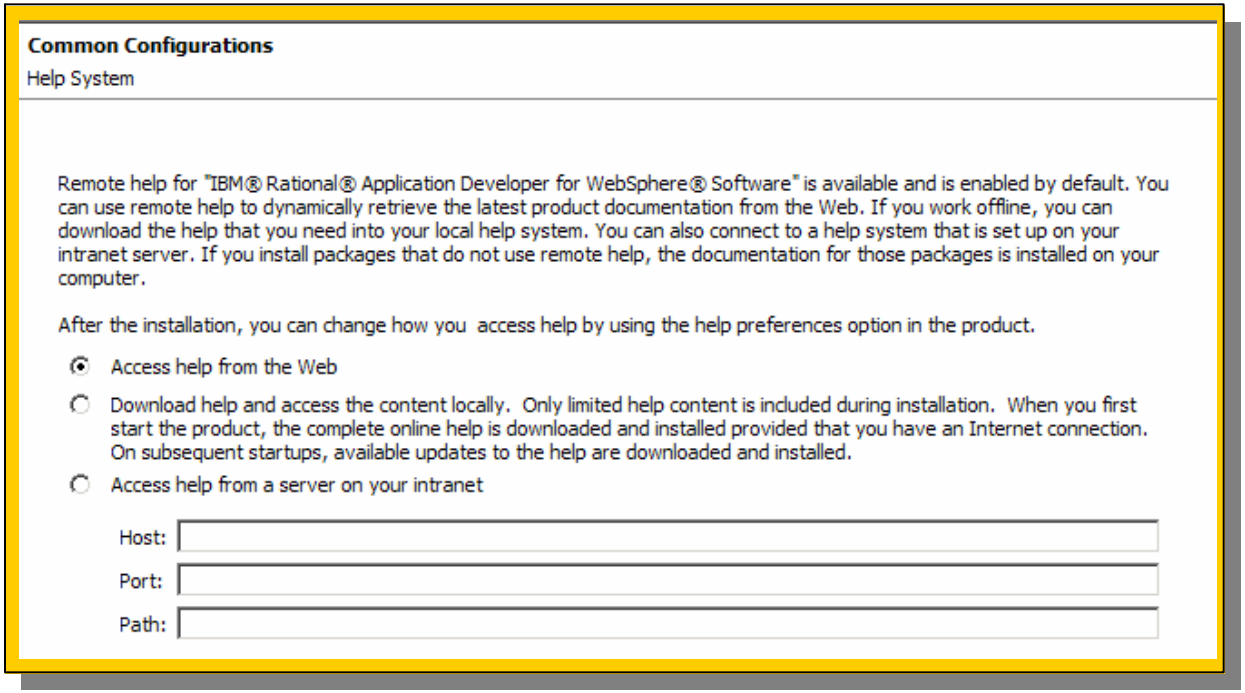
RAD PTK Flexible Install Options



- Install only the Portal version that's required;
- **Advantage**: reduced hard disk footprint (by ~300MBs)
- Ability to shell share with other Eclipse based products which helps developers manage the life cycle of their applications on their desktop
- Download & footprint improvements for the WebSphere test environment

Flexible Documentation Installation



- Various install options to manage your desktop configuration better
- Can be installed on a Enterprise wide common infrastructure
- **Advantage**:
  - Available on internet – regular updates
  - Reduced hard disk footprint

Automate Portal/Portlet Development with integrated WebSphere Portal Environments

- *WebSphere Portal Server 6.1.x, 6.1.5 and 7*
  - Integrated Portlet support for JSF, Struts framework, Portlet templates and layout
- Remote deployment to all WebSphere Portal and App. Server platforms above
- Remote publishing support for public and private clouds
- Incremental publish saves deployment time by an average of 80%
- Integrated debugging, menu items for admin console, ability launch WSADMIN, application client launcher
- Remote and Local Portal test client and Stubs to dynamically test your applications

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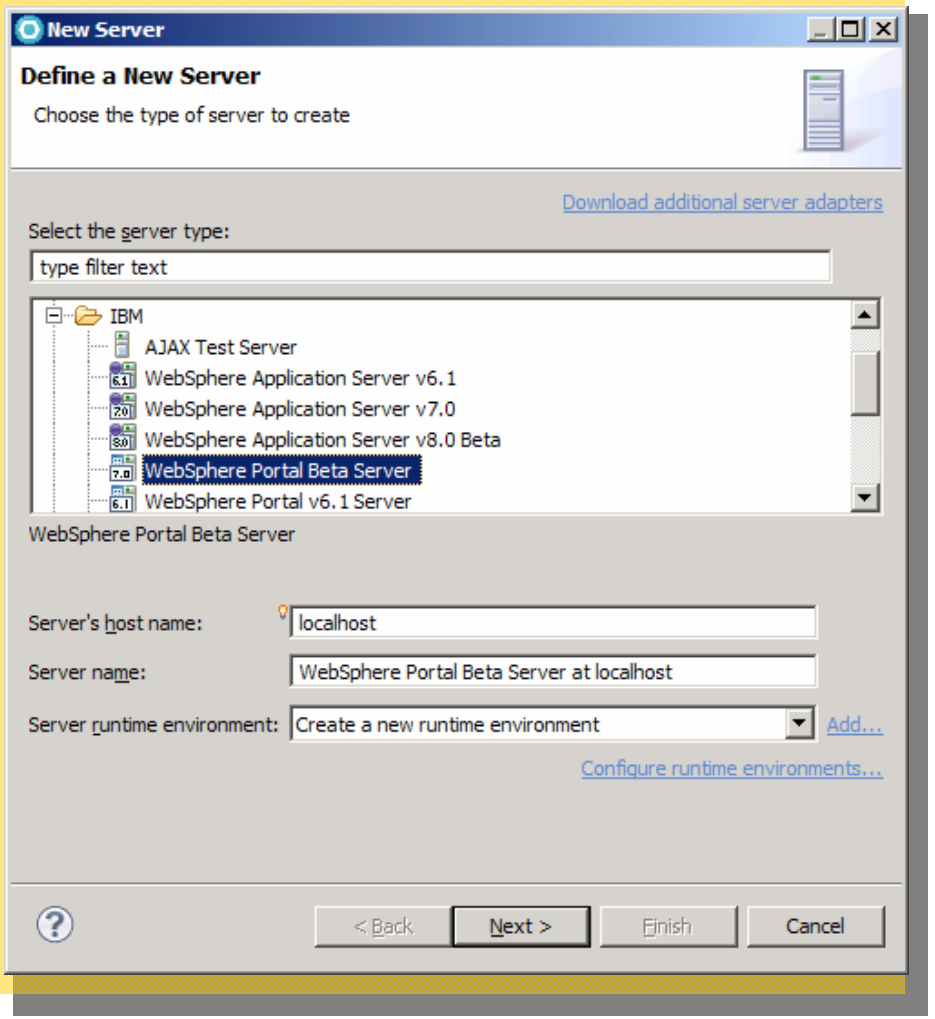
WebSphere Portal Server 7 Support

- WP 7 Server Support
  - Updated Wizard Steps
  - Ability to test connection with credentials
  - Updates to Server configuration editor to help manage deployment option local to Rational Application Developer
    - ✓ Portlet Settings
    - ✓ Publishing options
- WP V7 Stubs Support
  - contain all jars necessary for compilation of a JSR286, JAX-WS, and other portal features portal/portlet project
- Workspace migration from Rational Application Developer v6.1, v7 and v7.5.x to v8



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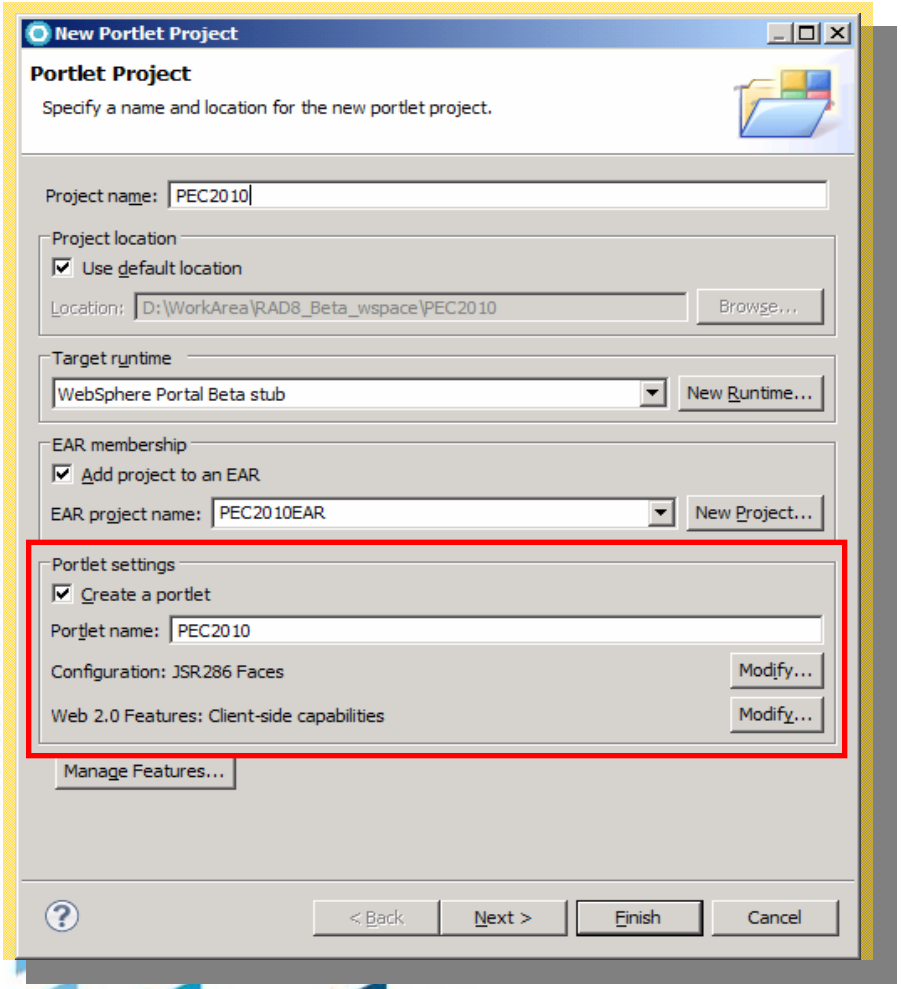
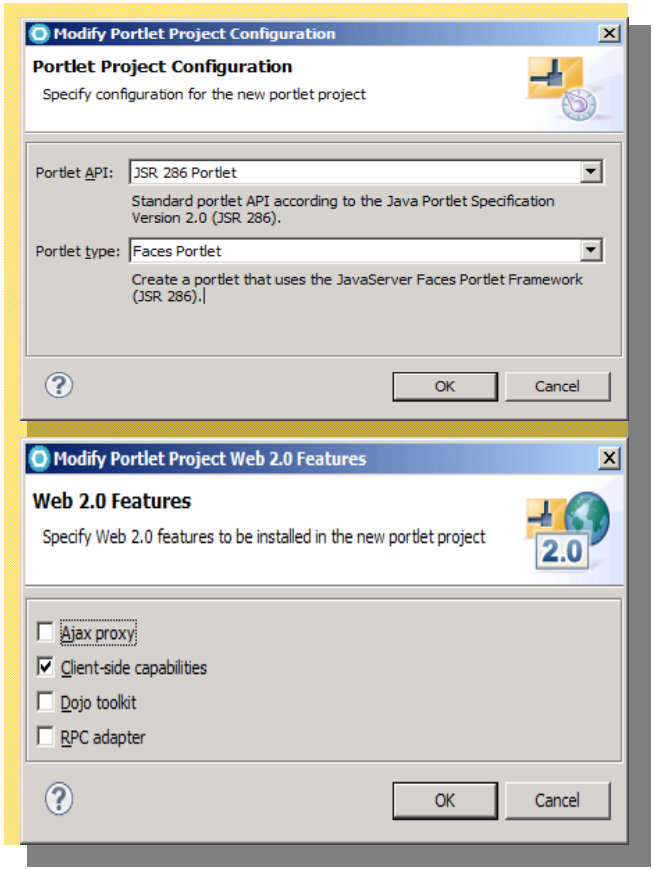
Improved Portlet project Creation Wizard

- Hassle free feature selection



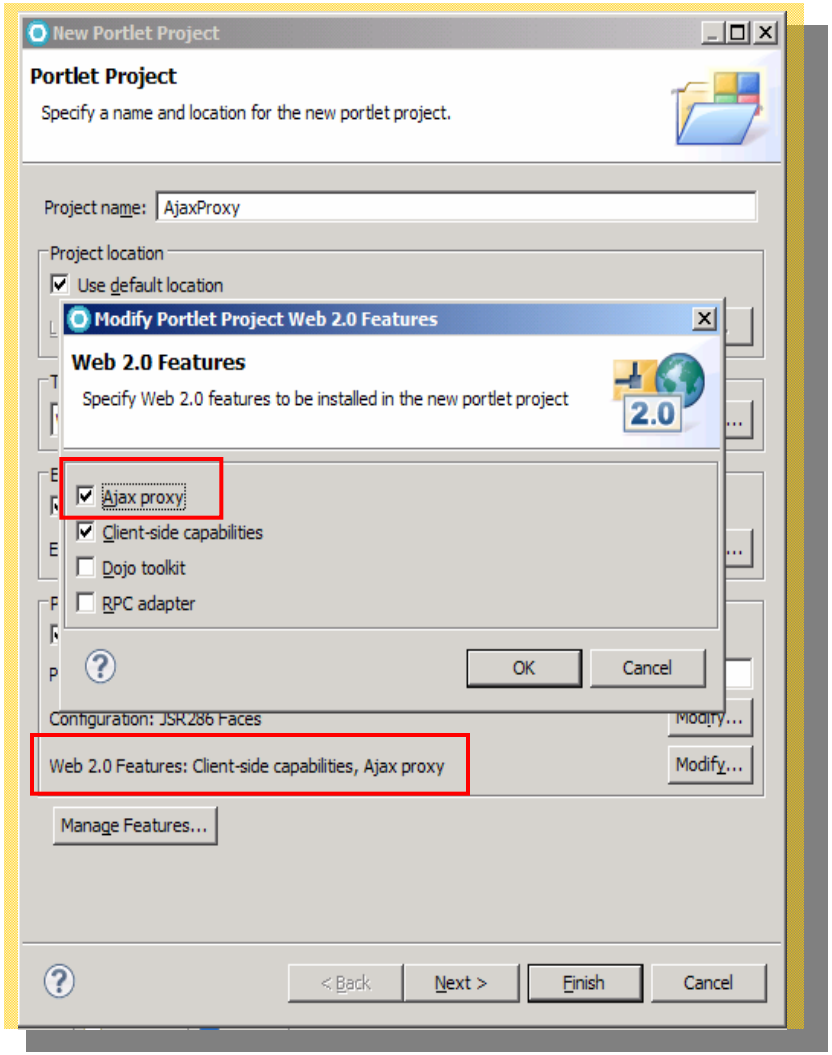


RAD Portal Toolkit is all about Web 2.0 features

- Web 2.0 Dojo tooling support
- Client Side Click-to-Action
- Insertion of Person Menu and the capability to extend the Person Menu
- Client Side Programming Model for retrieving portlet preferences in Basic portlet projects
- Enabling Ajax proxy for portlet applications
- Tooling support for Static Page Aggregation (SPA)
- Customize Web 2.0 themes of WP 6.1
- Multiple options to create ReST services

Ajax Portlet Development

- Portal 6.1 introduces several new capabilities to make AJAX development in portlets much easier.
- Ajax Proxy
- JWL widgets
- Supports cross-domain requests
- Easily administered
- JSR 286 Portlet support
- Adds ResourceRequests for retrieving Portlet resources without the full Portal aggregation
- Navigational State can not be altered
- Client Side Programming Model support
- Adds easy to use APIs for accessing portlet preferences and maintaining navigational state on the client

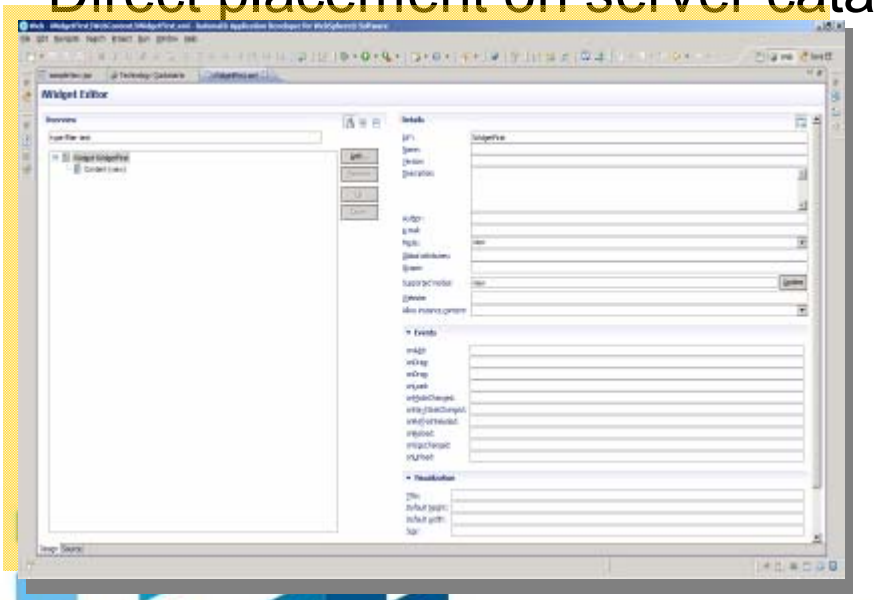


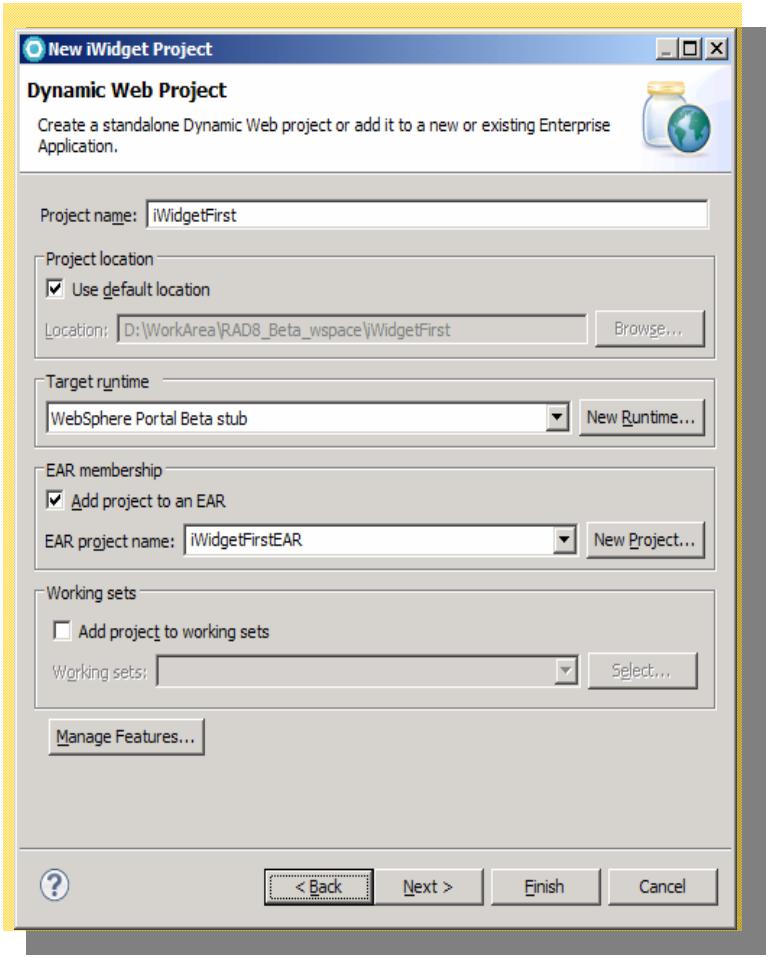
Ajax Proxy Support

- Can be enabled for existing or a new portlet project.
- Facet for Ajax Proxy
- Registers ProxyServlet in web.xml.
- Automatically creates proxy-config.xml under WEB-INF
- WYSIWYG editor (Ajax Proxy Configuration Editor) to edit the Ajax config
- One can specify paths that maps to a URL on a remote domain

iWidget Support

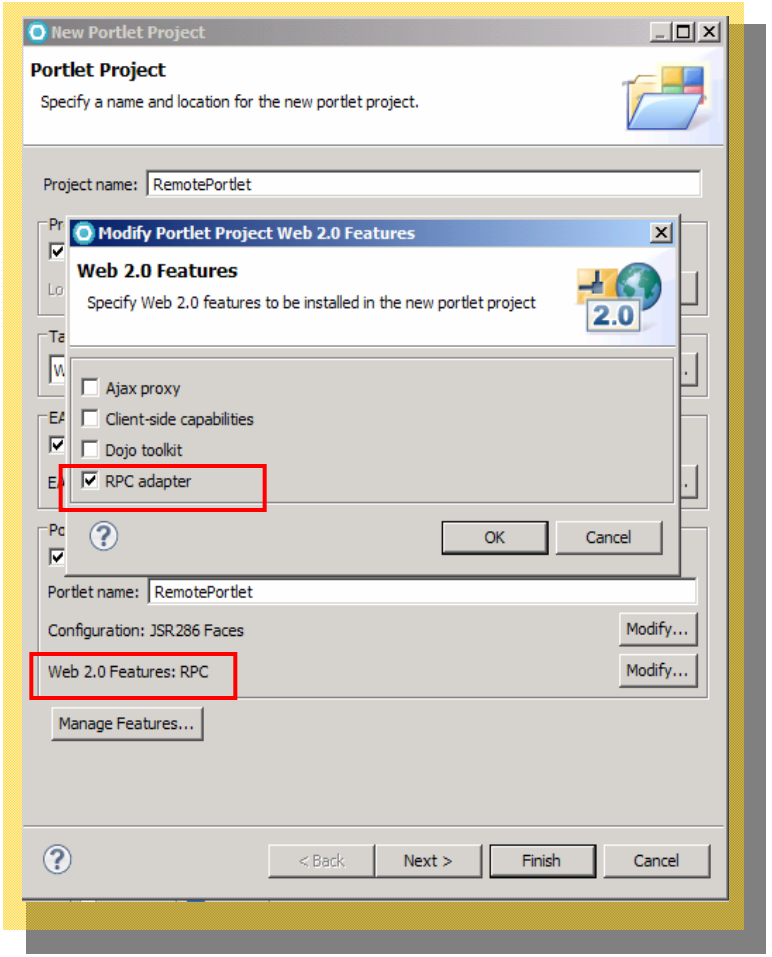
- Create an iWidget with few clicks
- Option to create
  - Event emitting iWidget
  - Event consuming iWidget
- WYSIWYG editor for iWidget XML
- Deployment tools
- Direct placement on server catalog





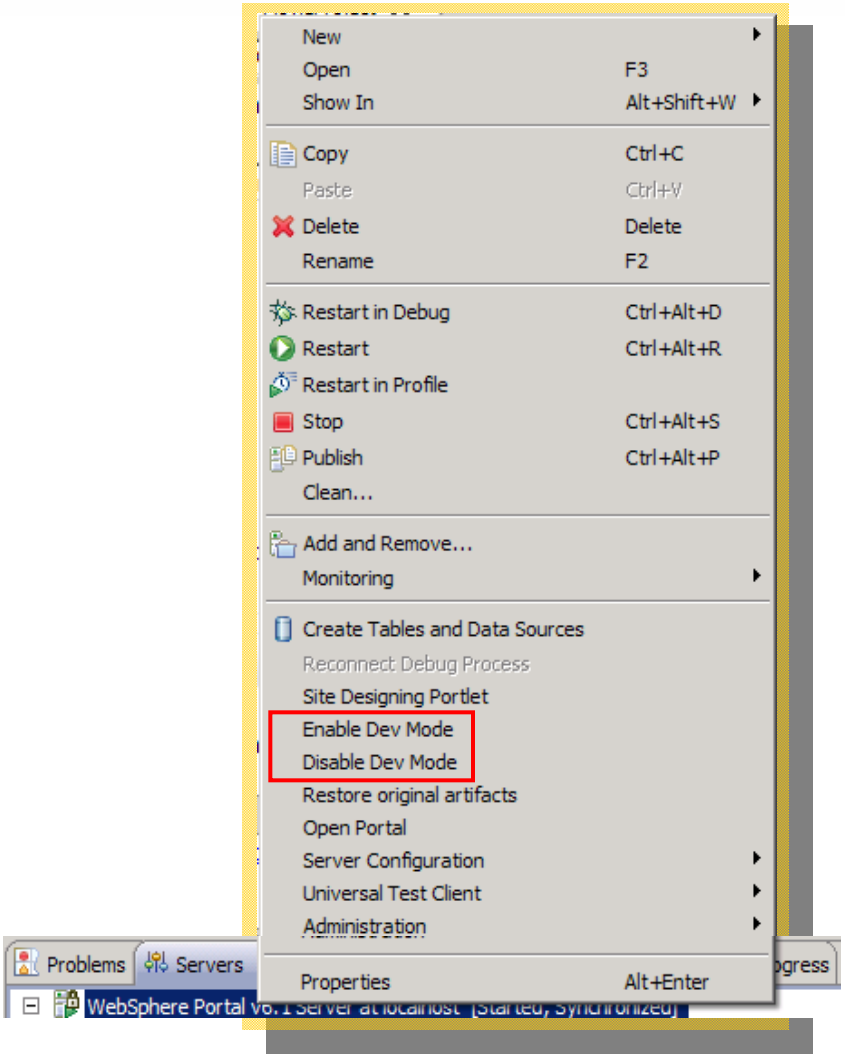
Remote Procedural Call

- A handy way of exposing any server side code as ReST service that enables Web20 portal application creation
- Single click invocation of wizards that takes away all your coding worries - no coding required, no testing of generated code required
- Exposes your POJOs, session beans methods to be directly callable from JavaScript or client side code
- Very intuitive and simple access to direct URLs of methods exposed
- URLs generated as per portlet specifications for applications targeting Portal



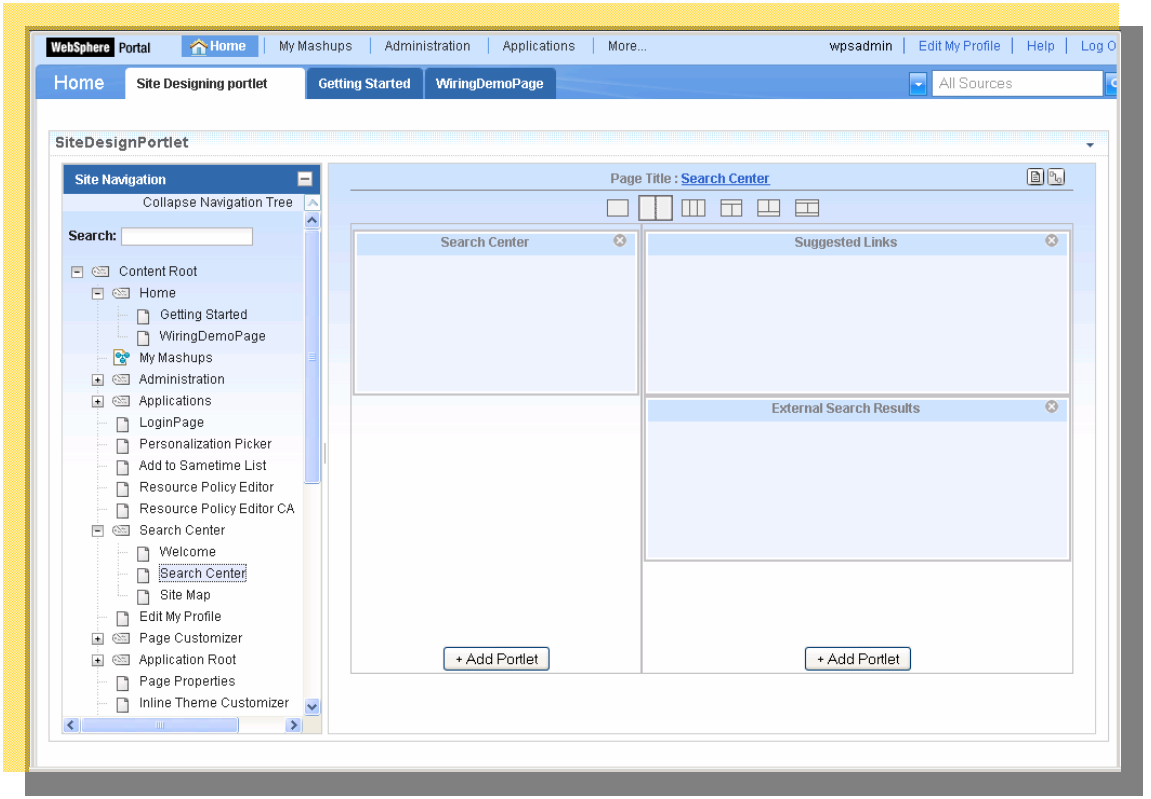
Portal Development Mode

- `ConfigEngine.bat enable-develop-mode-startup-performance`
- For development purpose
- Reduces portal start up time
- JVM is optimized for development
- One click
  - Activation
  - Deactivation
- No need to remember various portal config params
- Less chance of human error



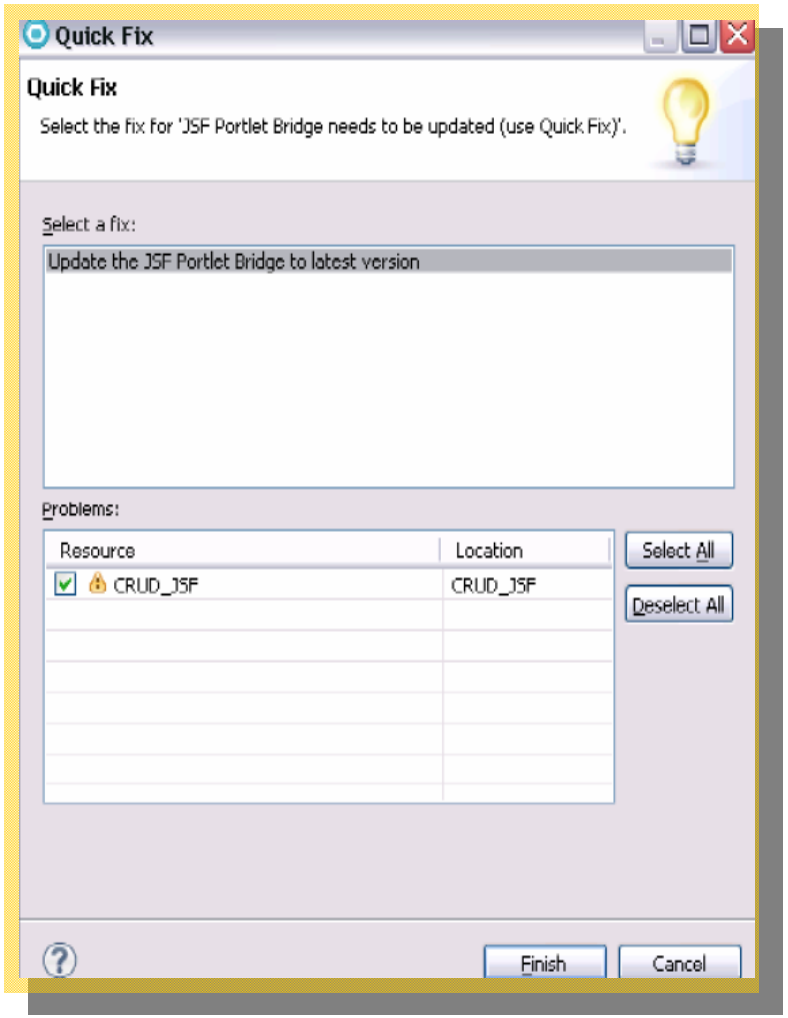
Site Designing Portlet Tool

- Light Weight
- Desktop like compelling usage
- Web2.0 Ajaxified interface
- Universal Catalog
- Portlet Design View
  - Page Navigation
  - Site Designing



Rational Application Developer JSF Portlet Bridge improvements

- The IBM JSF portlet bridge supports JSR 168 Faces Portlet applications based on JSF 1.2
- Automatic update of the JSF portlet bridge when a JSF Portlet Project is migrated from IBM Rational Application Developer V7.0.0.x to RAD V8
- In case of migration of JSF Portlet projects from IBM Rational Application Developer V7.5.x to RAD V8 quick fix option to update the JSF portlet bridge.



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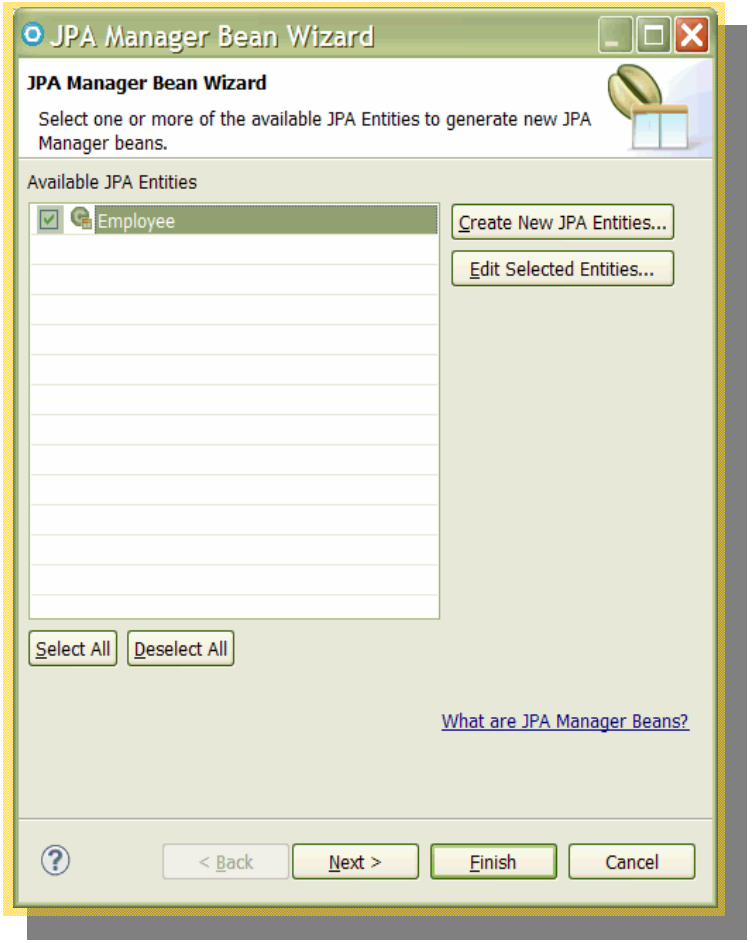
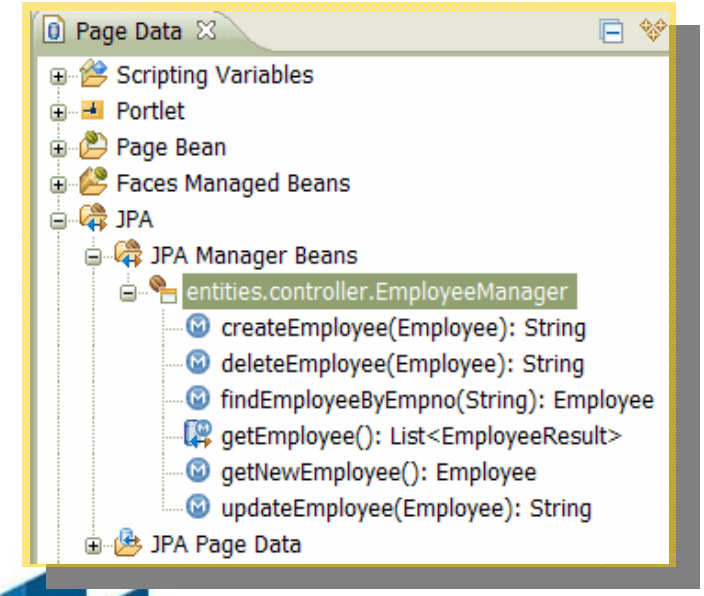
JPA Support for Portlet Projects

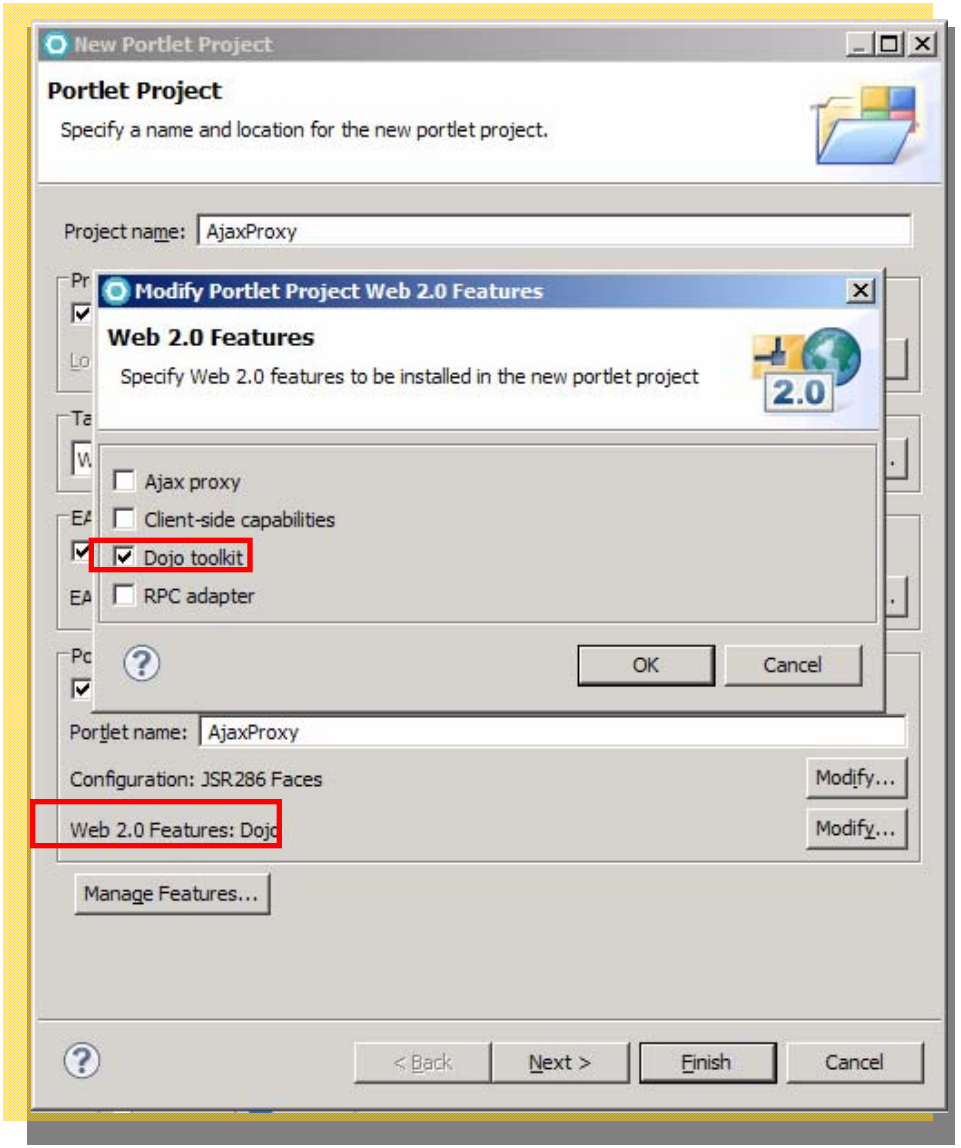
- Wizards to create
  - Entities from DB
  - JPA Manager Bean
  - Query Method
- Page Data View
  - Tree structure to represent the Entity
  - Auto generation of UI elements



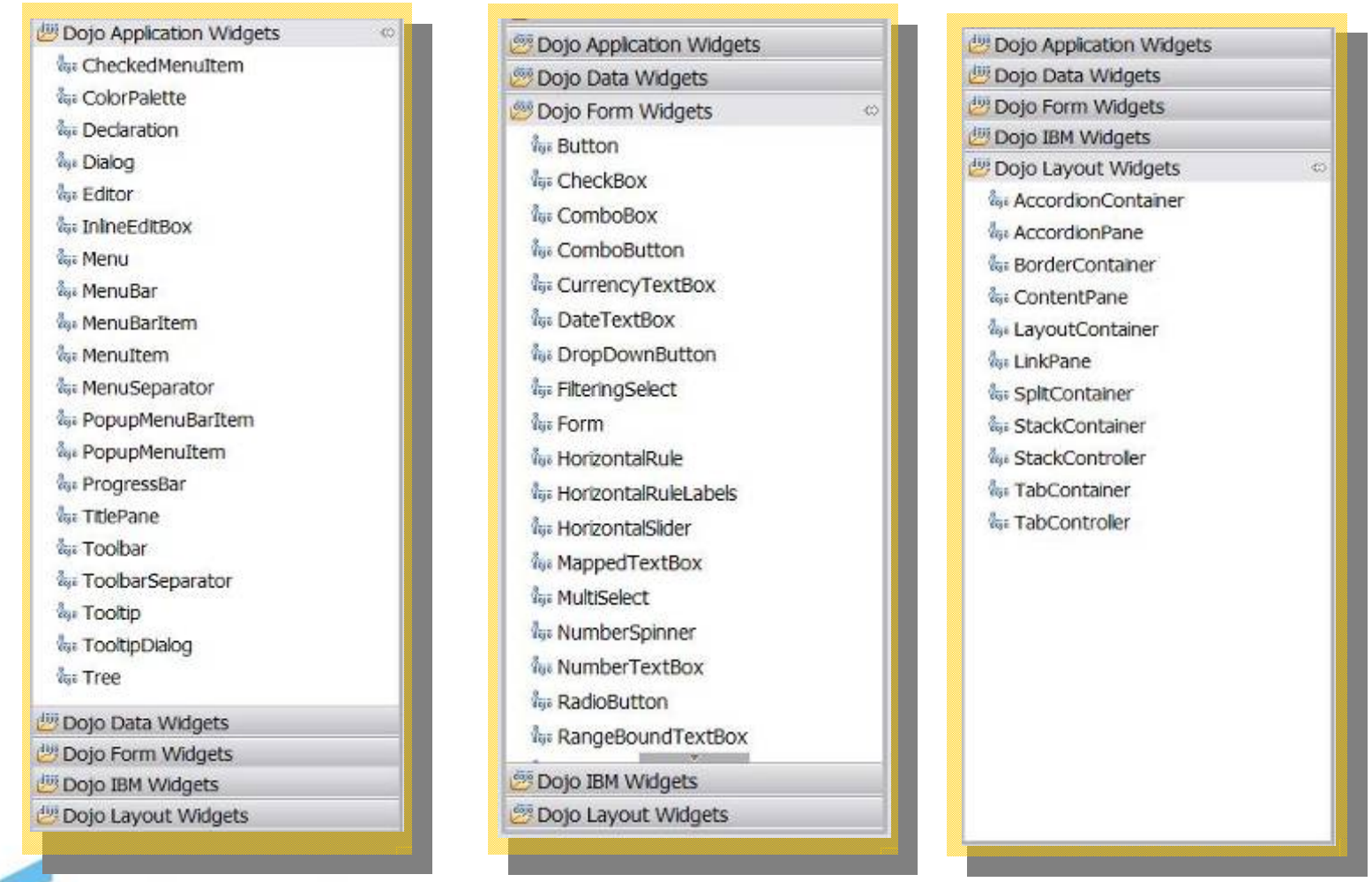


Dojo support

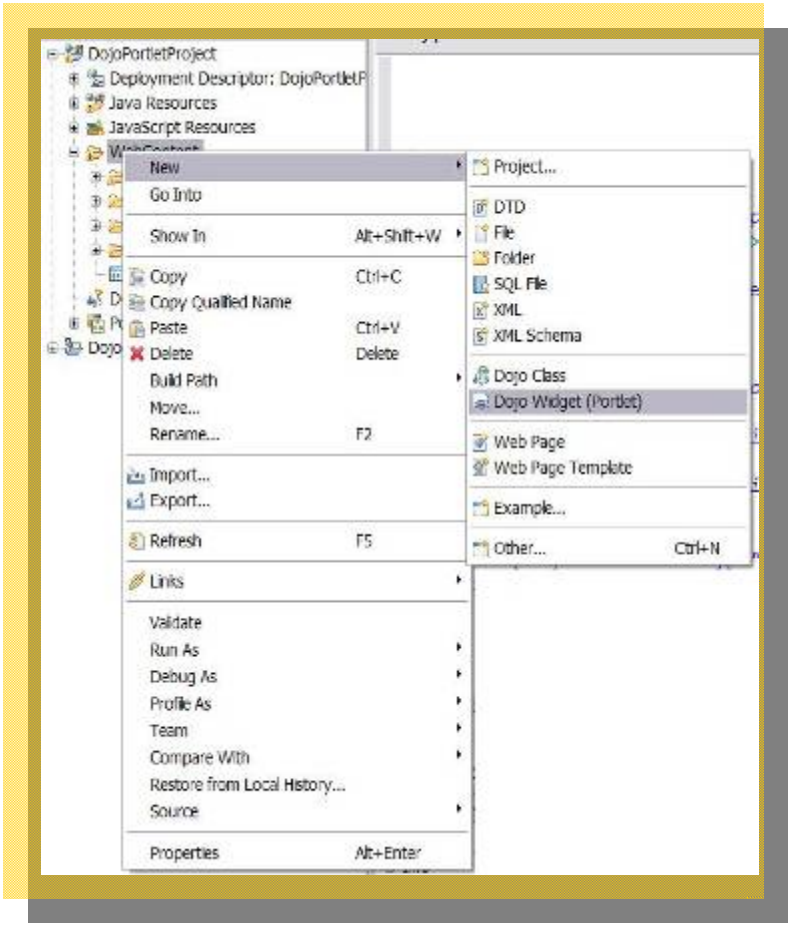
- Rational Application Developer allows to configure and use various versions of Dojo library.
- Solves challenges for Dojo development on Portal
- Incorporates best practices for Dojo and JavaScript



- ***Out of the box Dojo Widgets in Palette***

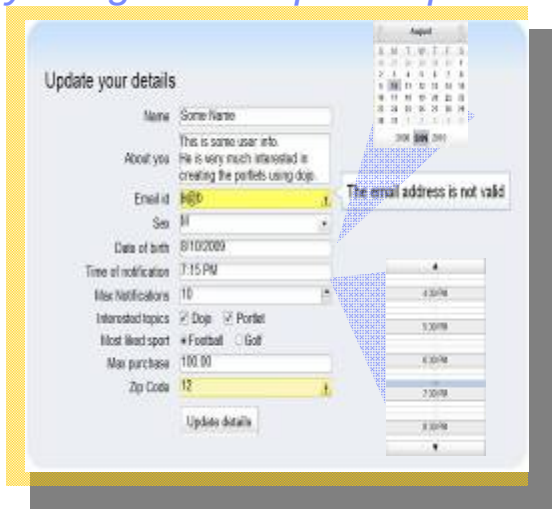


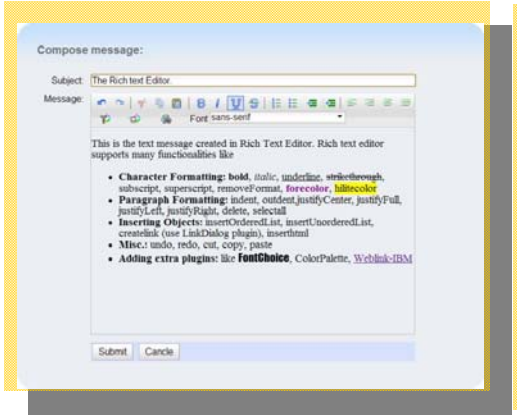
- ***Wizards to create custom dojo widgets***

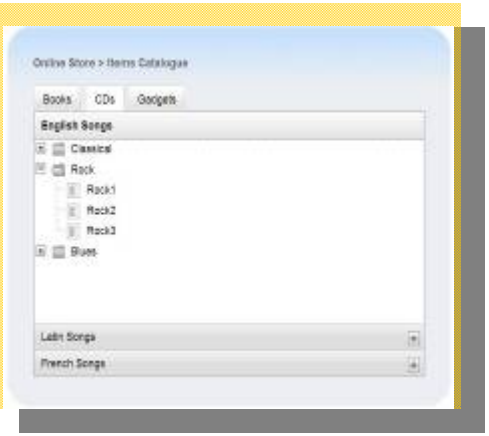


Deliver Exceptional User Interfaces with Dojo Widgets

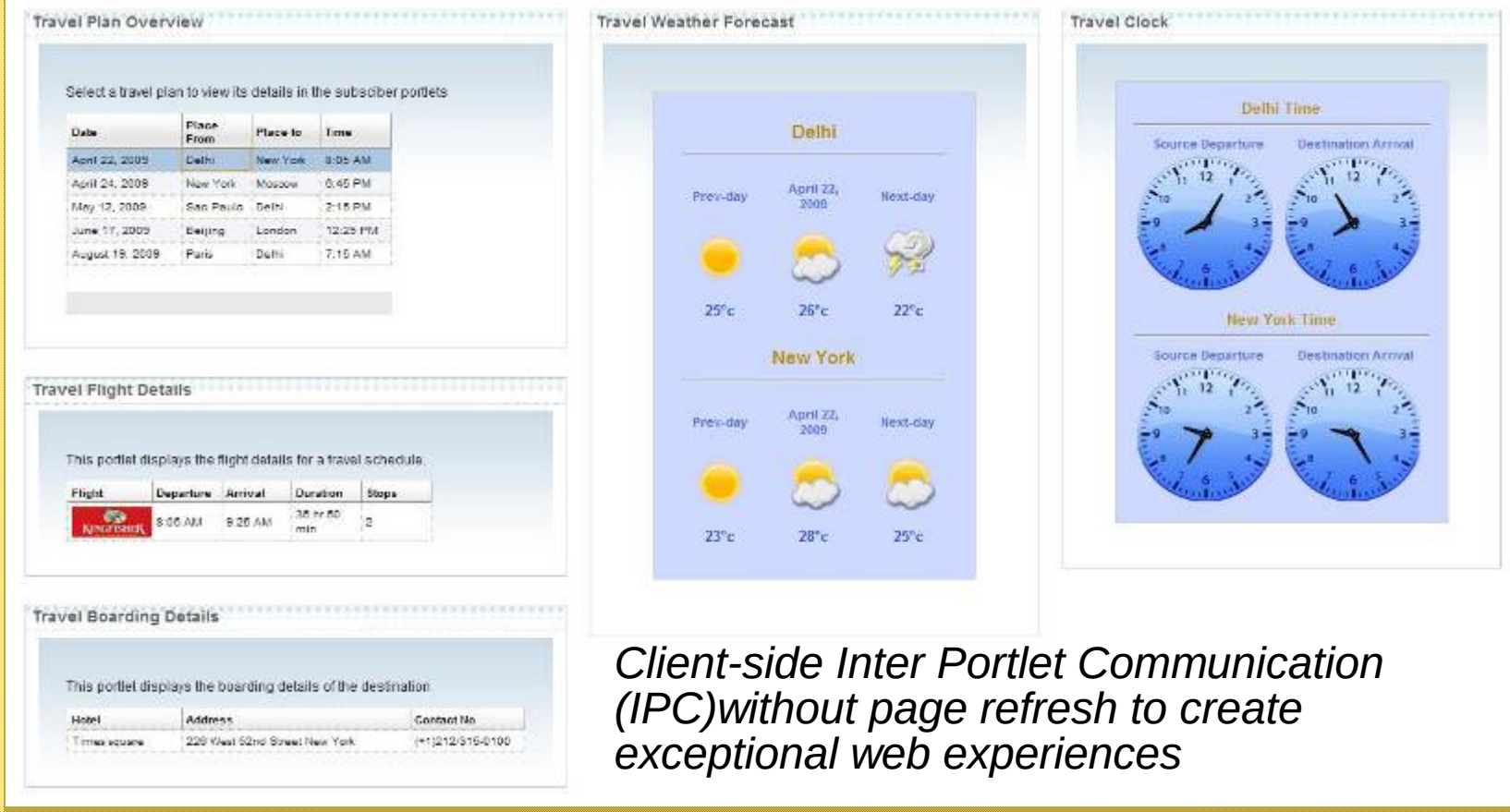
Easily Drag and Drop from palette any Widget to create exceptional web experiences







Deliver Exceptional Web Interfaces with Dojo Widgets in RAD Portal Toolkit v8



Client-side Inter Portlet Communication (IPC)without page refresh to create exceptional web experiences

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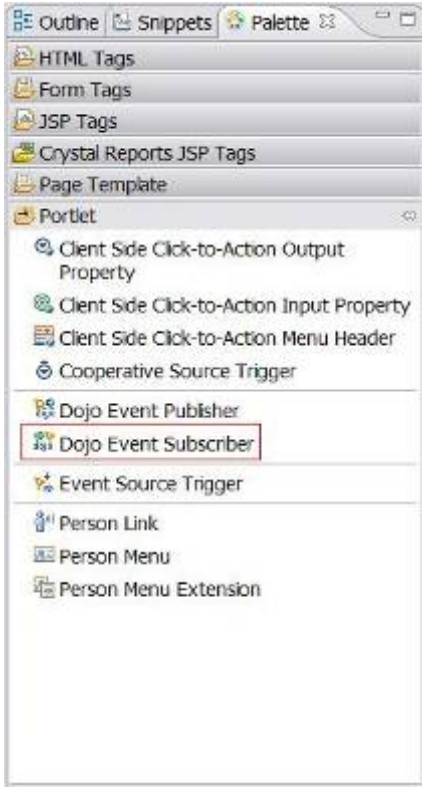
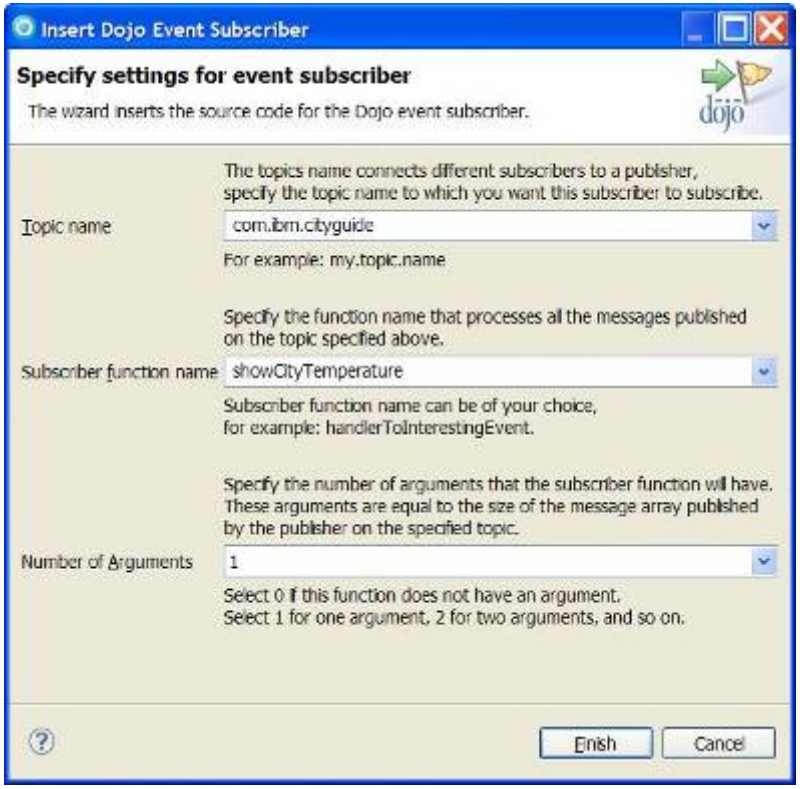
Client side IPC using Dojo

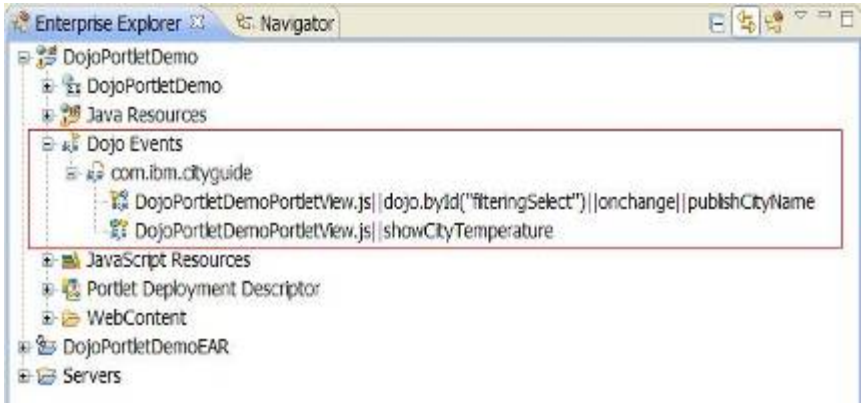
- Wizard to create Event Subscriber





Client side IPC using Dojo

- Node Decorators to demark
  - Topic
  - Event



- Auto-code generation
  - Connections are created for
    - ✓publishers
    - ✓subscribers
  - Placeholder JS functions generated for
    - ✓publishers
    - ✓subscribers

DEMO

Additional IBM Rational Application Developer Information and Resources

- **Rational Application Developer Portal Toolkit Wiki Page:**
- http://www.ibm.com/developerworks/wikis/display/rad/Portal+tools
- **Rational Application Developer Portal Toolkit Developer's Forum:**
- http://www.ibm.com/developerworks/forums/forum.jspa?forumID=430&start=0
- **Rational Application Developer on developerWorks:**
- http://www-128.ibm.com/developerworks/rational/products/rad/
- **Rational Application Developer Release Notes Quick Links:**
- http://w3-103.ibm.com/software/xl/portal/viewcontent?type=doc&srcID=R9&docID=Q037376H41907N67
- **Rational Licensing Home Page:**
- http://w3-103.ibm.com/software/xl/portal/viewcontent?type=doc&srcID=R9&docID=R107288S44149G18
- **Rational Application Developer Beta Home Page:**
- https://www14.software.ibm.com/iwm/web/cc/earlyprograms/rational/radob/index.shtml
- **Rational Application Developer Beta Release Notes:**
- http://publib.boulder.ibm.com/infocenter/radhelp/v8/index.jsp?topic=/com.ibm.rad.install.doc/topics/rad_releasenotes.html
- **Rational Application Developer Beta What's New:**
- http://www.ibm.com/developerworks/wikis/display/rad/Rational+Application+Developer+Version+8.0+Open+Beta
- **Rational Application Developer Beta Infocenter:**
- http://publib.boulder.ibm.com/infocenter/radhelp/v8/index.jsp

Additional IBM WebSphere Portal Information and Resources

- **WebSphere Portal – IBM Site**
- http://www-3.ibm.com/software/genservers/portal/
- **WebSphere Portal Business Solutions Catalog**
- http://catalog.lotus.com/wps/portal/portal
- **Websphere Portal Developer's Zone**
- http://www-106.ibm.com/developerworks/websphere/zones/portal/
- **Product Documentation and WebSphere Portal Wiki**
- http://www-3.ibm.com/software/genservers/portal/library/
- http://www-10.lotus.com/ldd/portalwiki.nsf
- **Education**
- http://www-01.ibm.com/software/lotus/training/portalofferings.html
- **WebSphere Portal Blog**
- https://www.ibm.com/developerworks/mydeveloperworks/blogs/WebSpherePortal/
- **Websphere Portal Business Solutions Catalog:**
  - http://catalog.lotus.com/wps/portal/portal
  - **Webspere Portal Product Information:**
  - http://www-306.ibm.com/software/genservers/portal
  - **WebSphere Portal Information Center Documentation:**
  - http://www.ibm.com/developerworks/websphere/zones/portal/proddoc.html

Additional Rational Application Developer Resources

- **Rational Application Developer on developerWorks:**
  - http://www-128.ibm.com/developerworks/rational/products/rad/
- **Rational Application Developer Release Notes Quick Links:**
  - http://w3-103.ibm.com/software/xl/portal/viewcontent?type=doc&srcID=R9&docID=Q037376H41907N67
- **Rational Licensing Home Page:**
  - http://w3-103.ibm.com/software/xl/portal/viewcontent?type=doc&srcID=R9&docID=R107288S44149G18
- **Rational Application Developer Zone on DeveloperWorks:**
  - http://www.ibm.com/developerworks/rational/products/rad/
- **Rational Application Developer Red Books**
  - http://www.redbooks.ibm.com/abstracts/SG247501.html?Open?S_TACT=105AGY82&S_CMP=GENSITE

Platforms Supported by Rational Application Developer

- **Linux®:**
- Red Hat Enterprise Linux Version 4.0 AS / ES (x32 / x64)
- Red Hat Enterprise Linux Version 5.0 AS / ES (x32 / x64)
- Red Hat Enterprise Linux Desktop Version 4.0 (x32)
- Red Hat Enterprise Linux Desktop Version 5.0 (x32)
- SUSE Linux Enterprise Server (SLES) Version 9 (x32 / x64)
- SUSE Linux Enterprise Server (SLES) Version 10 (x32 / x64)
- SUSE Linux Enterprise Desktop (SLED) 9 (x32)
- SUSE Linux Enterprise Desktop (SLED) 10(x32)
- **Microsoft® Windows®:**
- Windows Server 2003
- Windows XP
- Windows Vista Business/Enterprise
- Windows Server 2008

Application Server Test Environment:

- IBM WebSphere Application Server Unit Test Environment v6.0, v6.1, v7.0
- WebSphere Portal Server V6.1 (also compatible with v6.0 but not included)
- Supports WebSphere Feature Packs: Web 2.0, Web Services, EJB 3.0

Hardware:

- Display, minimum requirements: 1024 x 768
- 1GB RAM minimum; 2 GB RAM works well
- Disk space requirements: 3.5 GB minimum for installing Rational Application Developer and additional disk space for development resources (minimum disk space can be reduced if optional features and run times are not installed).
- Linux only supported on x86 architecture
- Intel® Pentium® III 800 MHz or higher recommended

Additional reasons why to use Rational Application Developer Portal Tools Kit?

- IBM Rational Application Developer (RAD) is the most complete Java and Web IDE on the market.
- Rational Application Developer's integrated set of Eclipse-based tools and best practices, as well as its local presence and expertise worldwide, minimizes development risks and maximizes return on investment.
- By teaming directly with the WebSphere Application Server and WebSphere Portal Server teams Rational Application Developer provides industry leading capabilities for both runtimes.
- Rational Application Developer can extended using both third party Eclipse plug-ins as well as Rational specific plug-ins provided by IBM and its partners.
- Rational Application Developer provides a reliable, robust and customizable set of tools, the IBM Software Development Platform, which is built on top of Eclipse .
- Rational Application Developer integrates with various Rational solutions including Rational Team Concert, which transforms Rational Application Developer into a collaborative JEE development environment which such capabilities as “Collaborative Debugging”
- Rational Application Developer leverages the IBM Installation Manager which provides enterprise-wide deployment capability for your organization.
- **The standard ECLIPSE Vs RAD PTK customer objection**
- *Most Common Customer Question:* I already have Eclipse for my Java coding – what more do I need?
- *My Response:* If you’re doing JEE development, your developers are spending a lot of time dealing with low-level infrastructure tasks such as directly editing the deployment descriptors, manually creating the mapping descriptors, writing code to test EJBs and more.
- Rational Application Developer adds a wealth of productivity features for the J2EE and Portal/Portlet developer over and above the base Eclipse platform.

For More Information (1)

- **WebSphere Portal – IBM Site**
- http://www-3.ibm.com/software/genservers/portal/
- **WebSphere Portal Information Center**
- http://www.ibm.com/developerworks/websphere/zones/portal/proddoc.html
- **WebSphere Portal Business Solutions Catalog (on Lotus Greenhouse)**
- https://greenhouse.lotus.com/catalog/home_full.xsp?fProduct=WebSphere%20Portal
- **WebSphere and Lotus Web Content Management Portal Open Beta**
- https://www14.software.ibm.com/iwm/web/cc/earlyprograms/lotus/portalopenbeta/
- **WebSphere Portal Blog**
- https://www.ibm.com/developerworks/mydeveloperworks/blogs/WebSpherePortal/

For More Information (2)

- **IBM Lotus Connections**
- http://www.ibm.com/software/lotus/products/connections
- **IBM Lotus Forms**
- http://www.ibm.com/software/lotus/forms
- **IBM Lotus Quickr**
- http://www.ibm.com/lotus/quickr
- **IBM Lotus Sametime**
- http://www.ibm.com/lotus/sametime
- **WebSphere Commerce**
- http://www.ibm.com/websphere/commerce
- **WebSphere Process Server and Business Process Automation**
- http://www.ibm.com/software/integration/wps

Questions

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- Manish Aneja – mananeja@in.ibm.com
- Jaspreet Singh – jaspsing@in.ibm.com

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- Deliver enduring quality
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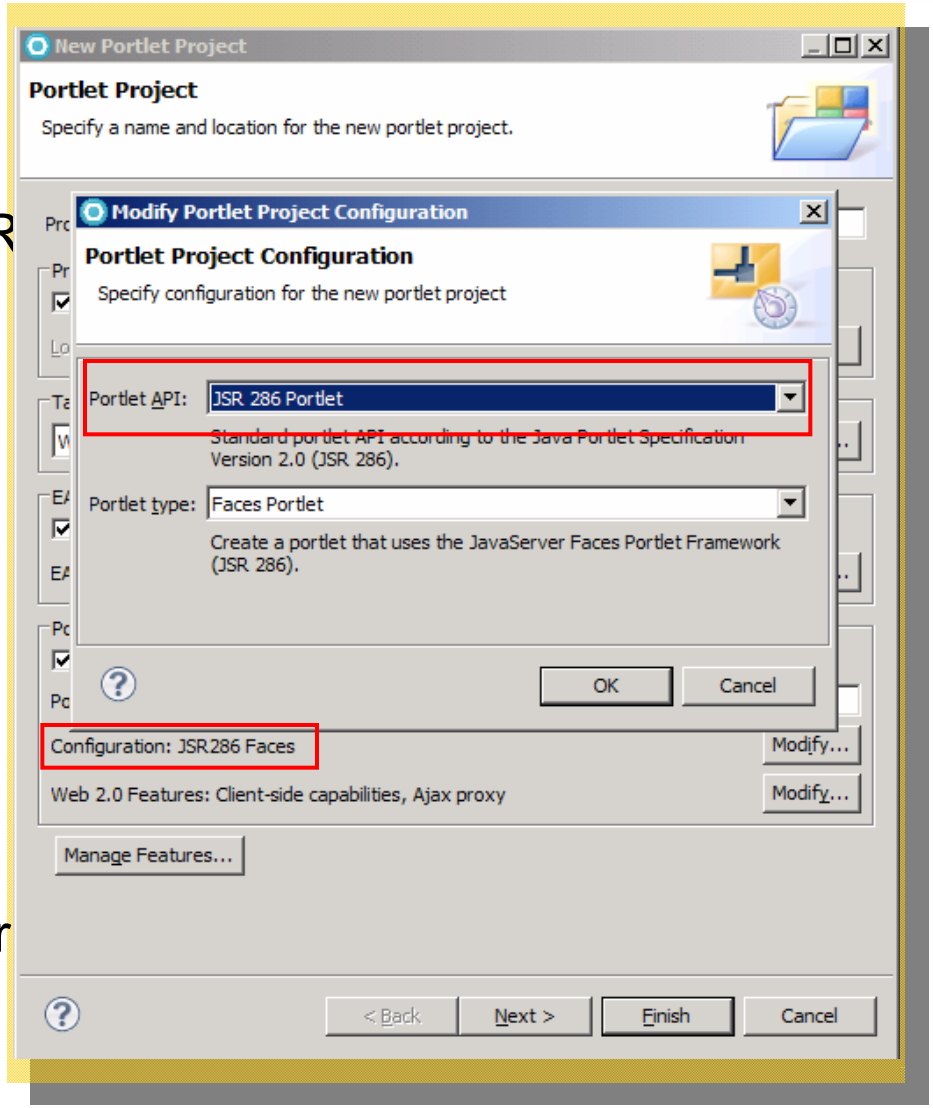
- ***BACKUP***

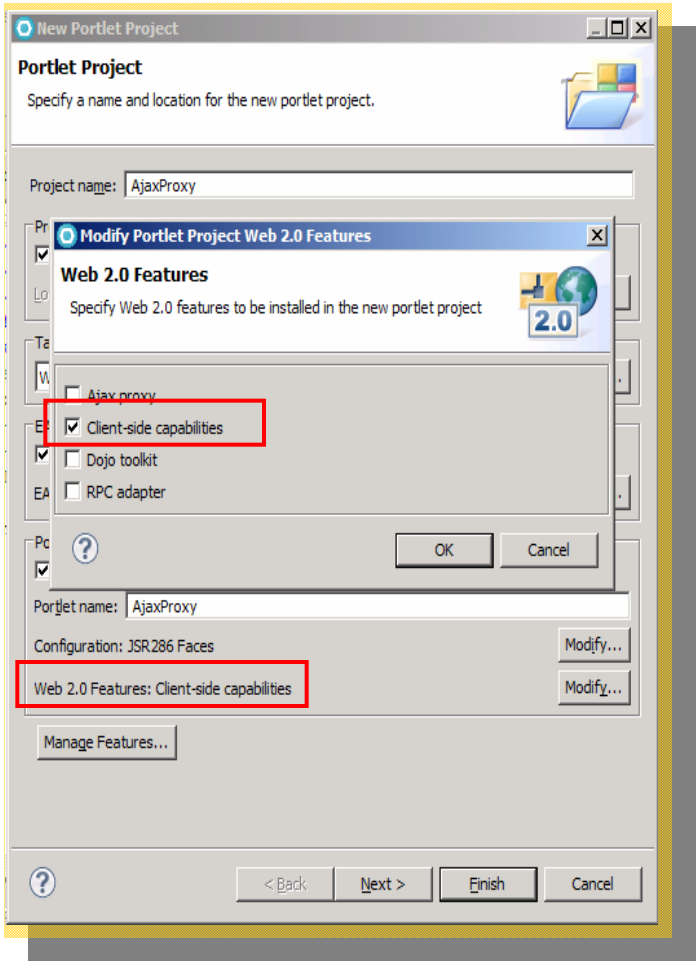
JSR-286 Support

- Creation of JSR 286 Portlet Project:
- Support for Portlet Events: JSR 286 allows the Portlets to declare events it wants to publish (send), and events it wants to process (receive).
- Support for Resource Serving: JSR 286 allows Portlets to serve resources.
- The resources here may be images, jsps and so on. The Portlet can serve resource using resource URLs. Using Rational Application Developer one can configure Resource Serving feature.



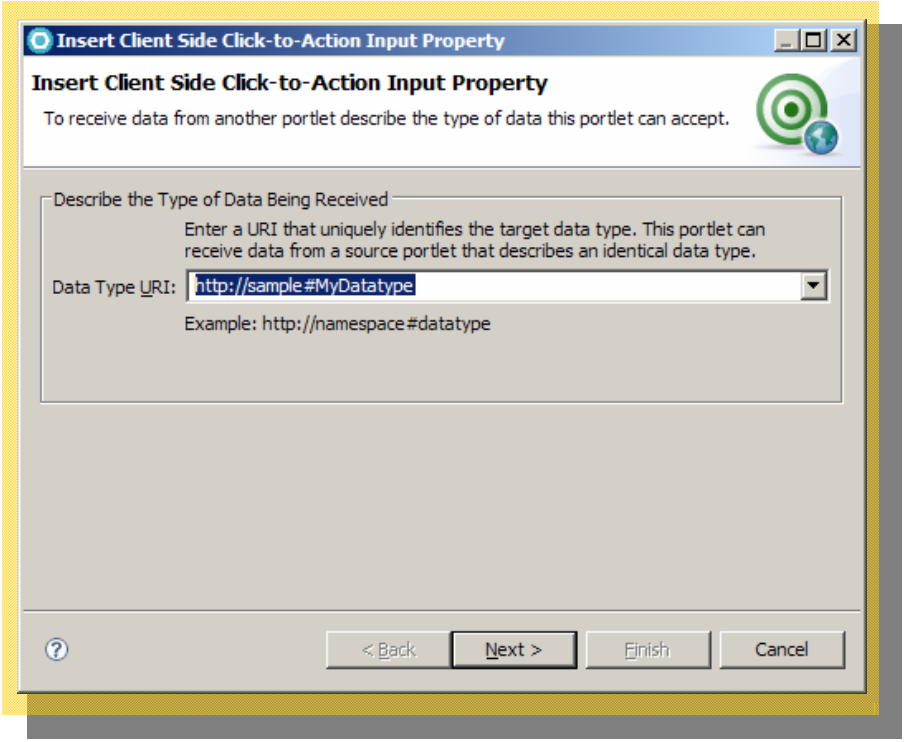
Support for Client Side Programming model

- One click to enable Web 2.0 functionality
- Improves performance
- Reduces repeated round trips to server
- No Flicker
- Leverages you system processing power
- User actions in the browser cause JavaScript to execute
- Script communicates directly with the server
  - XmlHttpRequest or hidden IFRAME
- Server replies
  - Data: text, JSON, XML, etc.
  - HTML fragment
  - JavaScript in the page interprets this reply and uses it to update one or more page areas

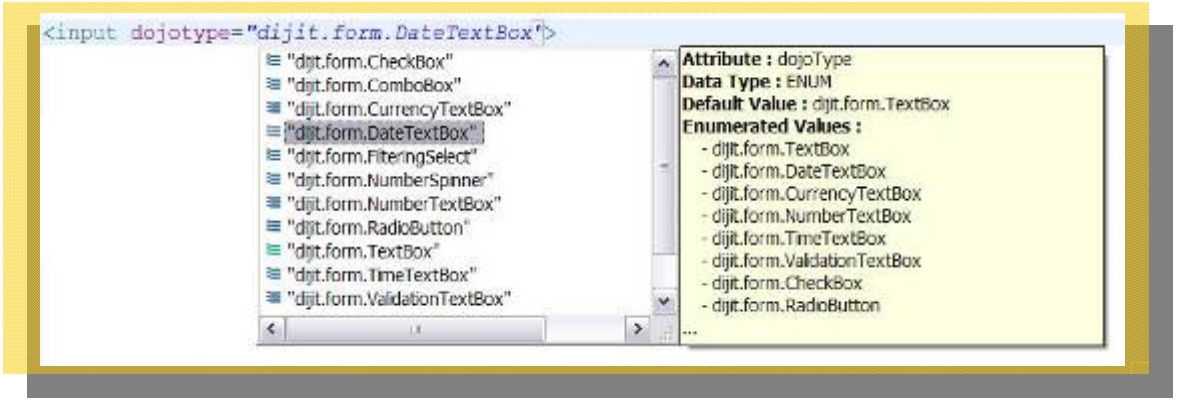


Client Side Click-to-Action

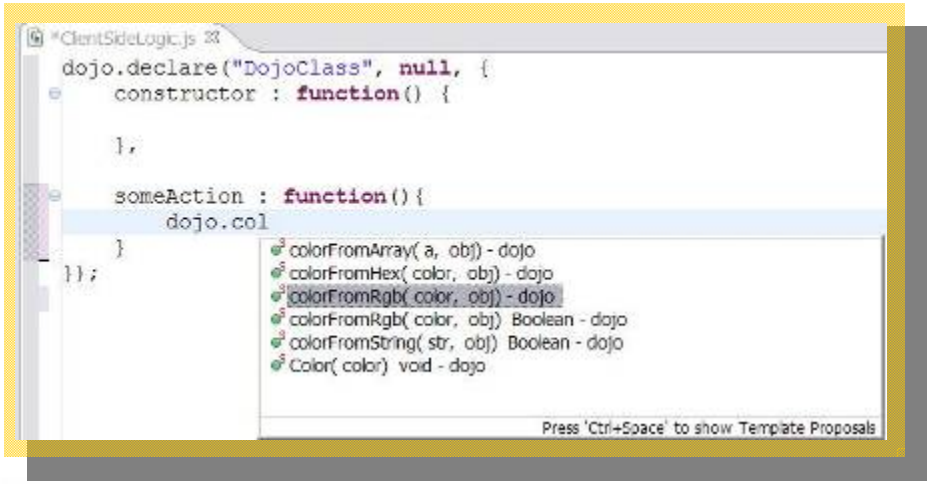
- One of the mechanisms by which portlets can interact and share information among each other
- Earlier available only for IBM APIs
- With WP 6.1 its available for JSR 168 and JSR 286 APIs as well
- Defined by semantic tags
- Source provides data relevant for other components on the page
- This data item has associated type name that determines the targets
- Targets provide handlers for this data, either as JavaScript or as a server side URL
- All components that contribute HTML to a page can be a source or a target



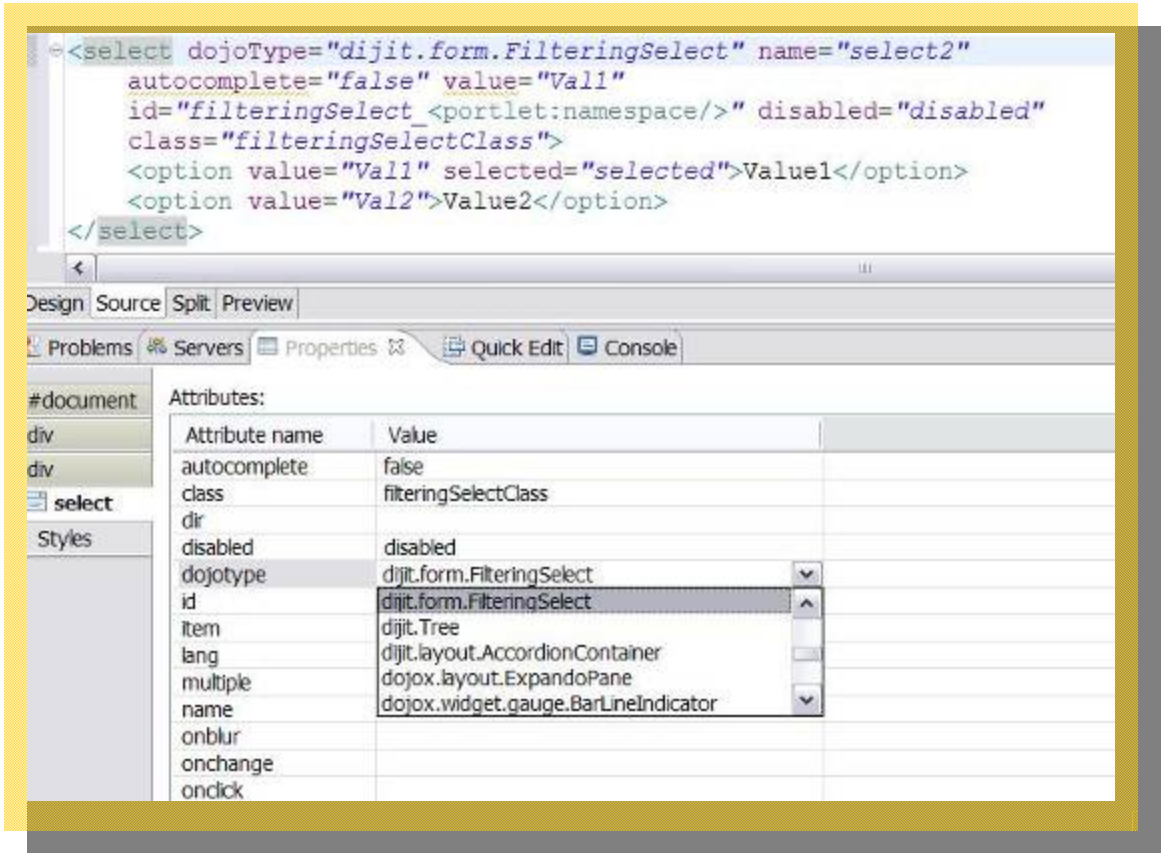
- ***Dojo content assist in JSP***



- ***Dojo content assist in JavaScript***



- ***Dojo widgets Properties View***



Display Tabular Data in Feature-Rich Dojo Grid

- Automatically provides column sorting and resizing, alternate row shading and event support

Automatically Enables Click to Sort Columns

Drag to Change Column Display Order or Width

Double Click to Fire Application Event

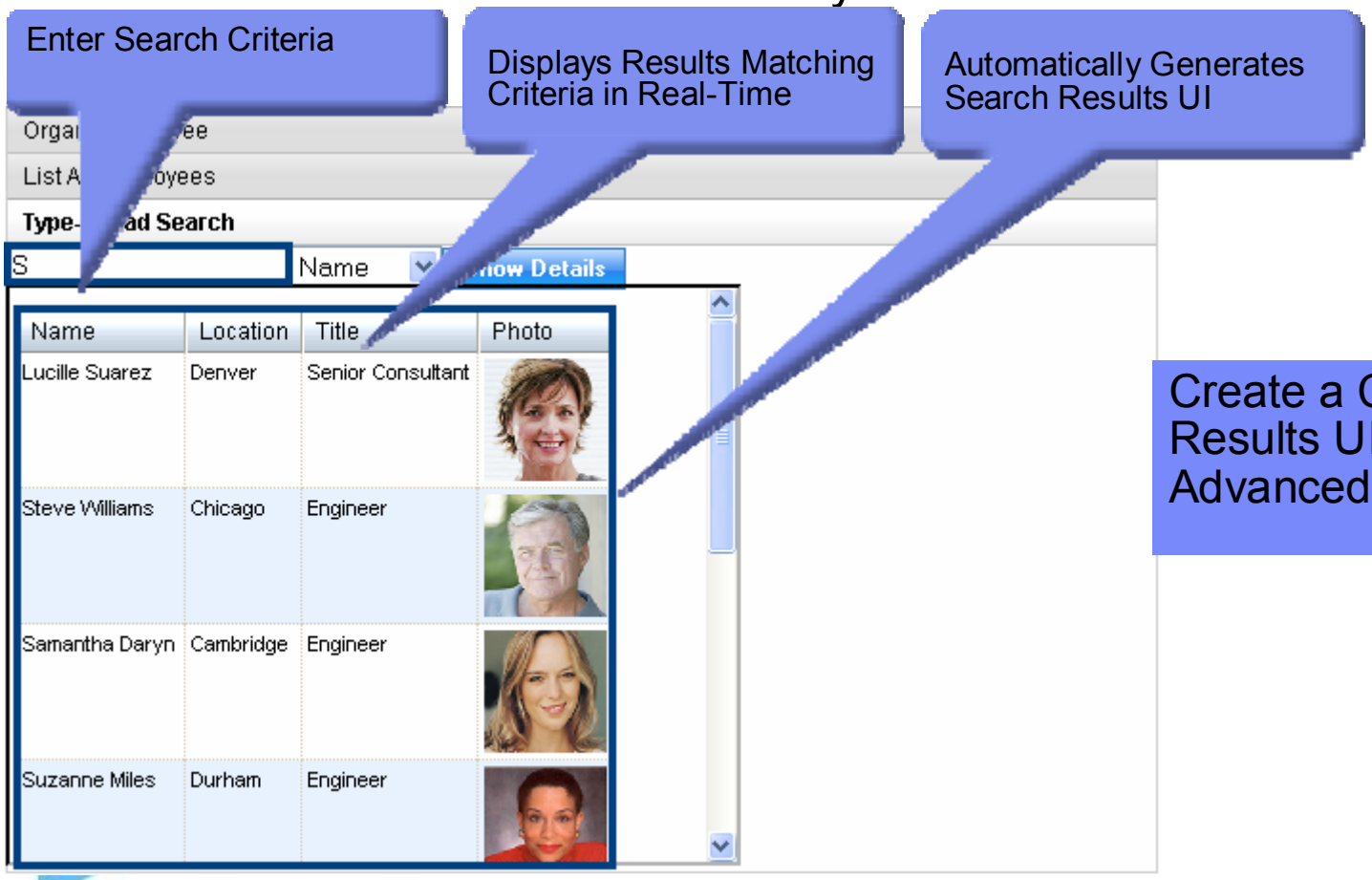
Automatically Applies Alternate Row Shading

ID	Date Ordered	Status	DATE_S	QUANTITY	AMOUNT	BILLING	HIPPED	STATE
000715	2000-02-12	Out of Stock	-		457.72	Credit	false	MA
001350	2001-10-21	Shipped	2001-10-28	58	498.60	COD	true	RI
001370	2002-09-21	Shipped	-	62	723.21	COD	false	TX
001629	2006-11-16	Shipped	2006-12-15	100	512.39	PO	true	CA
001724	2003-06-11	Shipped	2003-06-11	148	256.01	PO	true	FL
002835	2005-03-09	Shipped	2005-04-01	15	56.39	PO	true	VA
004912	2005-08-03	Shipped	2005-08-04	27	163.18	COD	true	MO
004912	2005-08-03	Shipped	2005-08-04	27	163.18	COD	true	MO
005978	2001-05-01	In Process		38	287.51	Credit	false	VT
006592	2006-11-16	Shipped	2006-12-15	100	512.39	PO	true	CA
007241	2005-08-03	Shipped	2005-08-04	27	163.18	COD	true	MO
008731	2002-06-16	Shipped	2002-06-22	76	790.98	PO	true	NH
009532	2001-09-02	Returned	2001-09-09	8	306.34	PO	true	CT

Modify Grid Content with Advanced Formatting (i.e. add links, date/number formatting etc.)

Return Search Results in Real-Time with Dojo Type-Ahead Search

- Improved type ahead search functionality generates tabular results user interface automatically



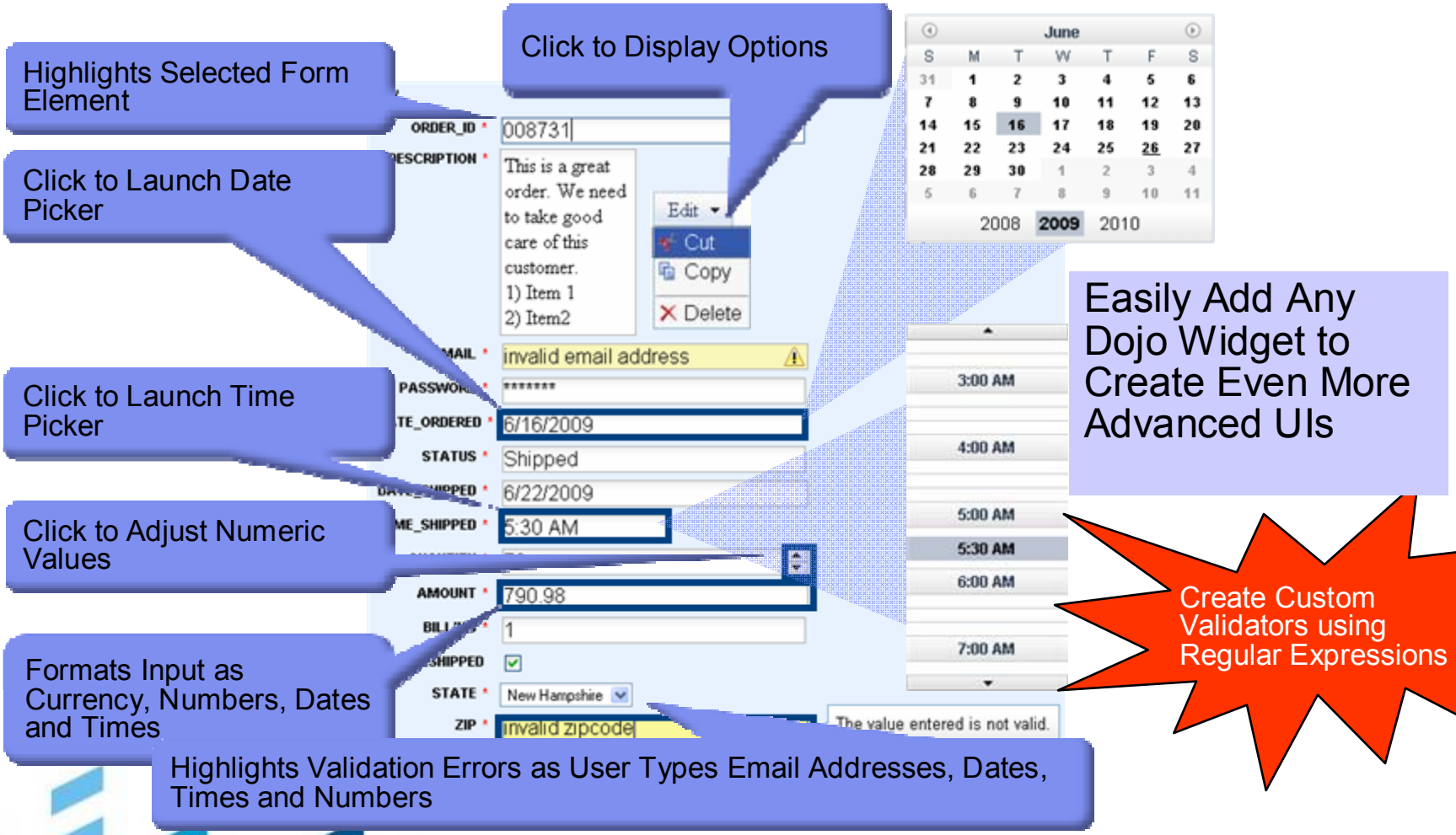
Create a Custom Results UI for Advanced Layouts

Create Sophisticated Web 2.0 Style User Interfaces

- Easily deliver polished, nuanced User Interfaces with depth and complexity including rounded corners and drop shadows

Deliver Exceptional User Interfaces with Dojo Widgets

- Easily create forms with advanced Dojo User Interface widgets including pickers, validators, formatters, spinners and drop down buttons



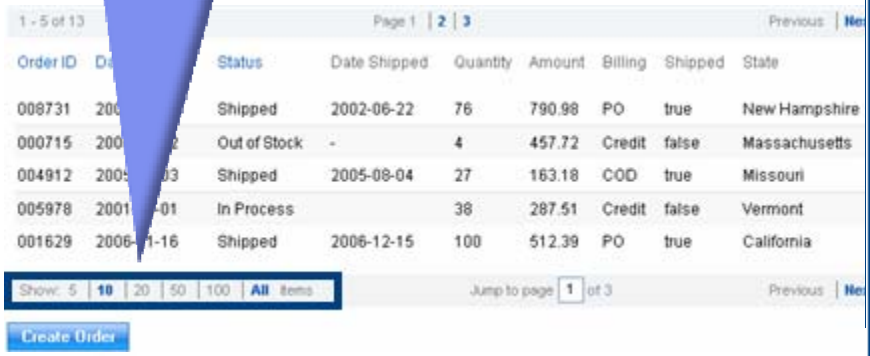
Increase User Interface Interactivity Using Visual Dojo Animation Effects

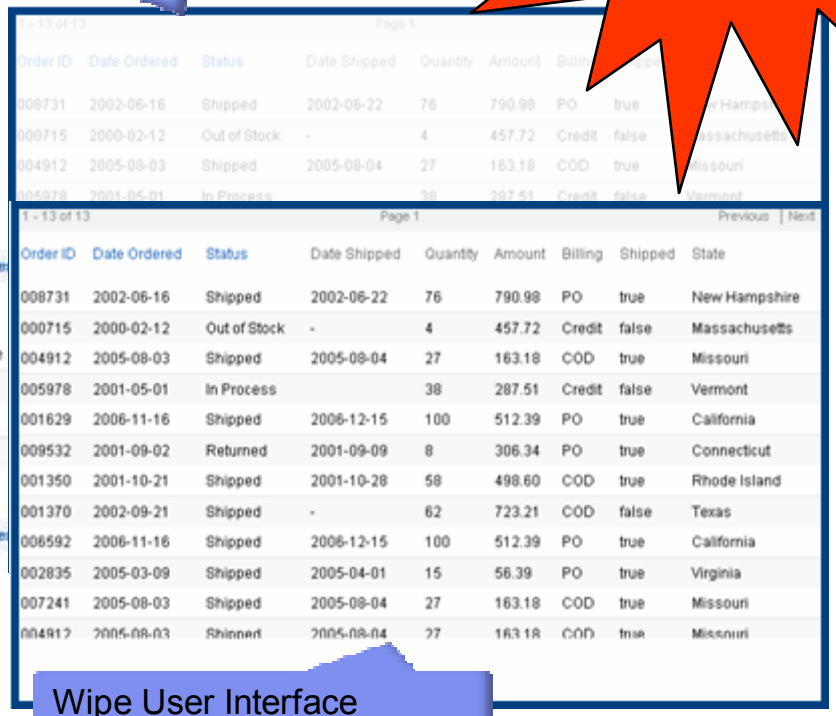
- Create highly interactive, visually stunning user interfaces by adding Dojo animations to application functions
- Supported animations include:
  - Wipe in/out
  - Fade in/out
  - Highlight
  - Animate

Create Custom Animations and Chain Animations Together for Even More Visually Stunning Effects

Fade User Interface

Click to Fire Animation





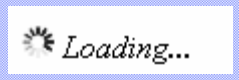
Wipe User Interface

Dynamically Provide User Feedback with Progress Indicators

- Improve user experience and maintain user focus by indicating progress of application functions
- Supported Dojo indicators include:
  - Progress bar
  - Animated spinner
  - Text only

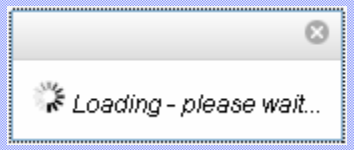
Specify Custom Images to Create Advanced Progress Indicators

ANIMATED SPINNER



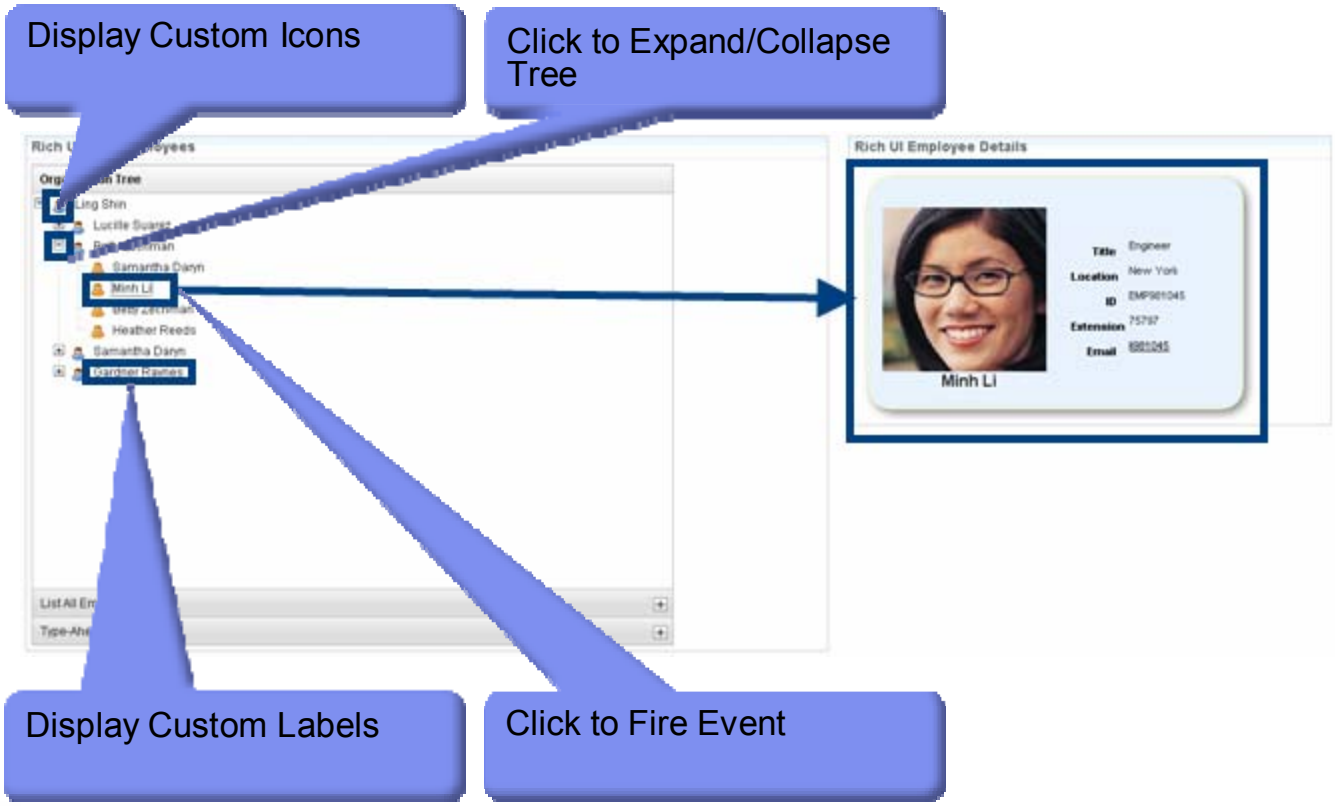
PROGRESS BAR

POPUP (MODAL) ANIMATED SPINNER



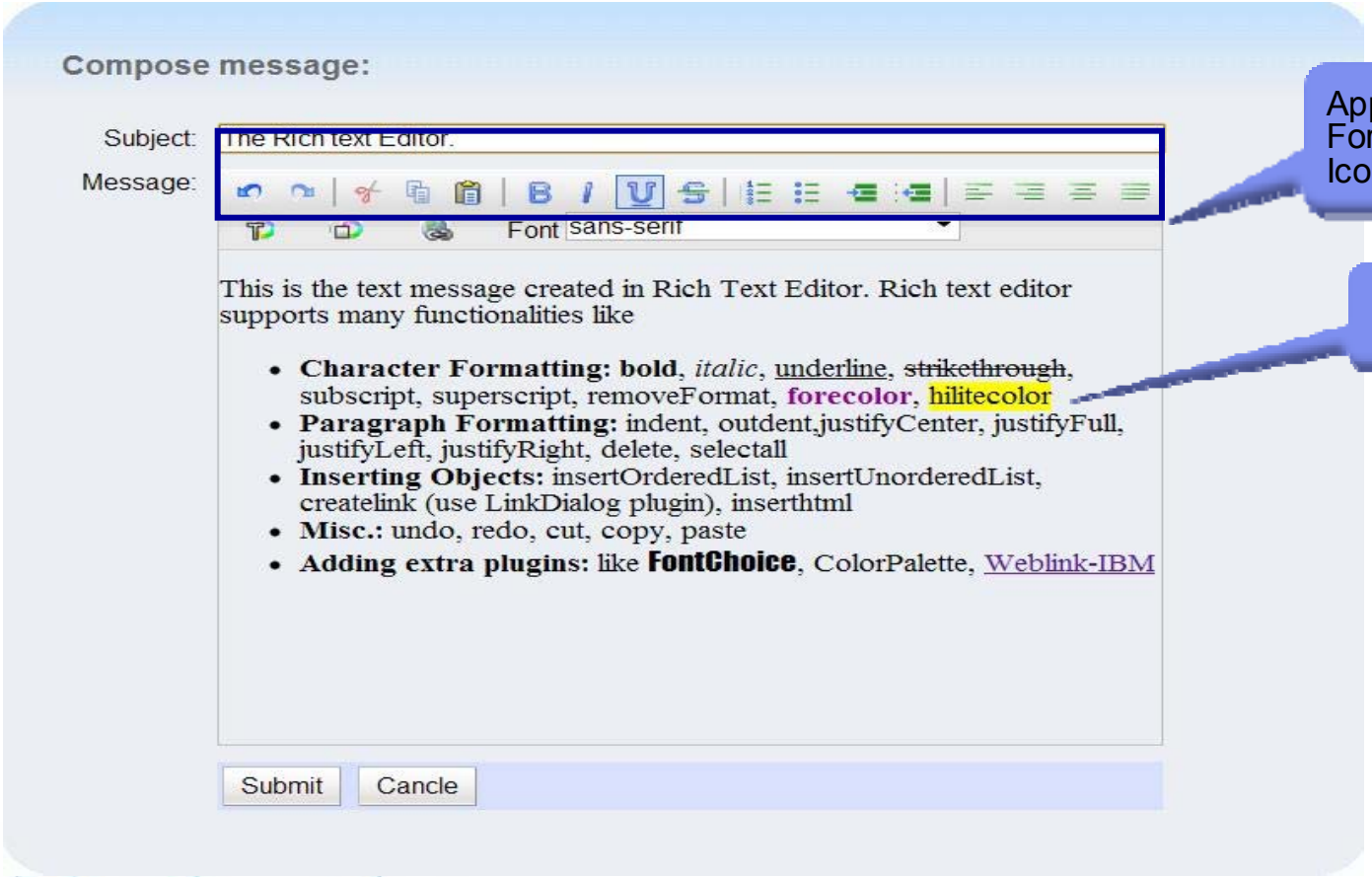
Simplify Display of Complex, Hierarchical Data Using Dojo Tree

- Organize the display of hierarchical data using a dynamic Dojo tree with customizable icons and labels



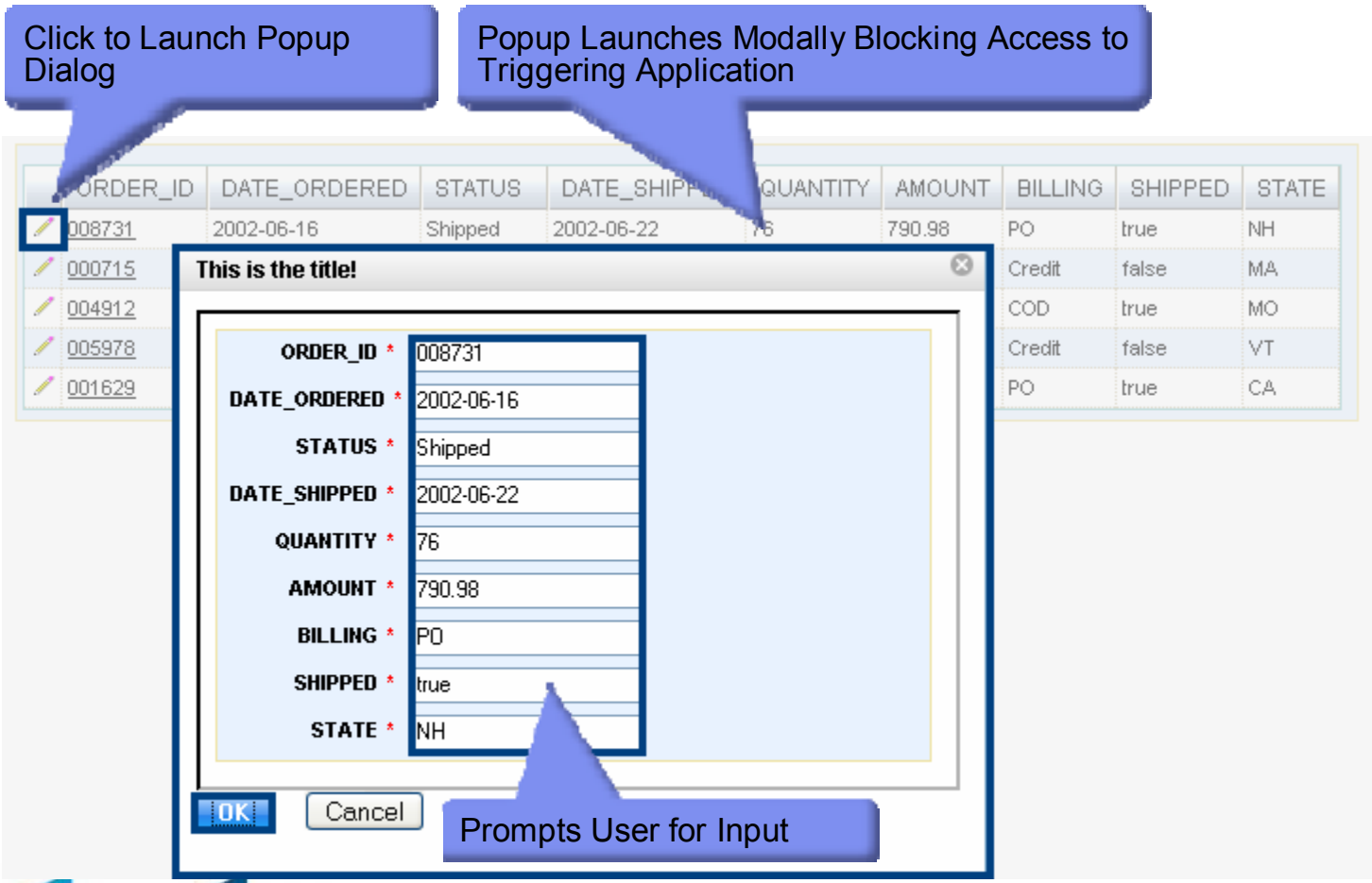
Create and Display Richly Formatted Text Using Dojo Rich Text Editor

- Apply advanced formatting to text input including font style and effects, numbered and bullet lists and embedded links and images



Interactive Capture User Input Using Dojo Popup Dialog Boxes

- Popup Dojo dialog boxes and prompt the user for input, while disabling the triggering application



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