

IBM WebSphere Portlet Factory – Rich Web User Interface Sample

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This article with the accompanying sample shows you how to use IBM WebSphere Portlet Factory (hereafter called WebSphere Portlet Factory) to create applications with interesting and colorful, customized User Interfaces.

This article is one in a collection of articles and samples that illustrate techniques for developing with Portlet Factory. See [Websphere Portlet Factory Wiki Samples](#) for a complete list. For an introduction to developing with WebSphere Portlet Factory, you should look at the tutorials that are available in the product help and at the resources described in the [Learning Roadmap](#).

Prerequisites:

You should have a basic familiarity with WebSphere Portlet Factory (version 7.0 or higher is required for this sample) and be able to run WebSphere Portlet Factory models.

This sample set requires that you include the following product feature sets in your project:

- Dojo Extension - 1.x (under Dojo Ajax)
- Enterprise Theme Extension (under Integration Extensions)
- Building Models (under Tutorials And Samples)

Sample Description:

This sample consists of several models that are accessed via a launch page.

The models illustrate the following techniques:

Launcher (./samples/rich_web_ui/Index.model):

This is the main model and can be used to launch the other models in the sample. It demonstrates some ways to create curved and colorful Uis.

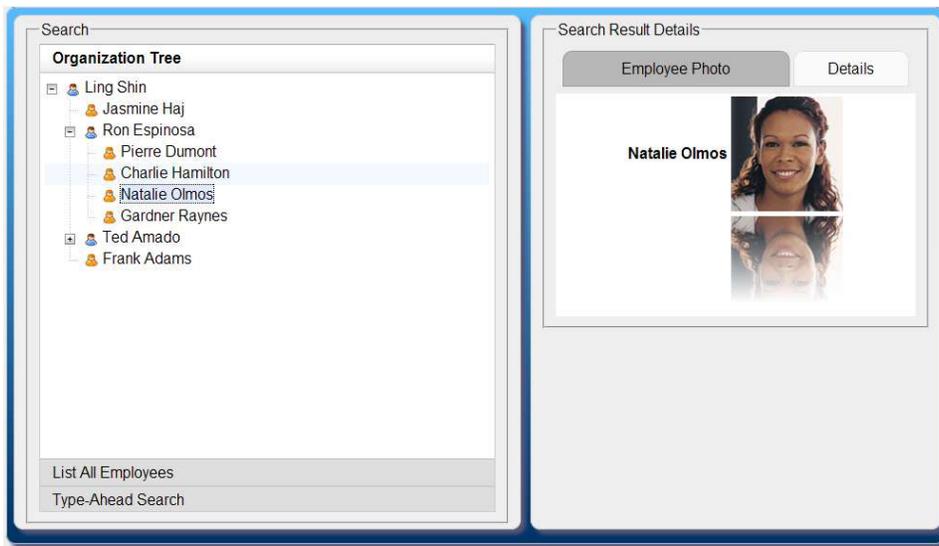


Employee Search and Details (../samples/rich_web_ui/FindEmployees.model and ../samples/rich_web_ui/EmployeeDetails.model):

This model demonstrated rich UI techniques for employee lookup.

This sample utilizes the following:

- Dojo Accordion
- Dojo Tree
- Dojo Animation
- Dojo Progress Indicator
- Dojo Hover Tab Container
- Custom Type Ahead Picker
- Client events with Partial Page Refresh



Orders View and Update (../samples/rich_web_ui/OrdersView.model):

- Uses Data Services User Interface builder to display and update data
- Uses Dojo Tab Container to display multiple views of data
- Displays multi-line view of data with expand and collapse for each item
- Expand/Collapse is done via Dojo Title Pane
- Dojo controls are applied using Data Field Settings (Calendar, Time, Currency, Rich Text Editor, Zip, Email, regex, etc)
- Create new record uses Dojo Form Dialog builder to create a pop-up dialog
- Profiled using WebSphere Portal groups so that update, create and delete are not available for “customers” group
- Dojo Tooltip builder

Table View Multi Line View

1 - 5 of 13 Page 1 | 2 | 3 Previous Next

Order Id	Date Ordered	Status	Date Shipped	Quantity	Amount	Billing	Shipped	Delete
008731	06/16/2002	Shipped	06/22/2002	76	790.98	PO	true	<input type="checkbox"/>
000715	02/12/2000	Out of Stock	-	4	457.72	Credit	false	<input type="checkbox"/>
004912	08/03/2005	Shipped	08/04/2005	27	163.18	COD	true	<input type="checkbox"/>
005978	05/01/2001	In Process		38	287.51	Credit	false	<input type="checkbox"/>
001629	11/16/2006	Shipped	12/15/2006	100	512.39	PO	true	<input type="checkbox"/>

Show: 5 | 10 | 20 | 50 | 100 | All items Jump to page 1 of 3 Previous Next

Create

Table View Multi Line View

▶ Harper Corporation										
▼ Franklin International										
<table border="0"> <tr> <td>Ship To</td> <td>Bill To</td> </tr> <tr> <td>200 Bailey Ave.</td> <td>200 Bailey Ave.</td> </tr> <tr> <td>Mount Kisco</td> <td>Mount Kisco</td> </tr> <tr> <td>NY</td> <td>NY</td> </tr> <tr> <td>10549</td> <td>10549</td> </tr> </table>	Ship To	Bill To	200 Bailey Ave.	200 Bailey Ave.	Mount Kisco	Mount Kisco	NY	NY	10549	10549
Ship To	Bill To									
200 Bailey Ave.	200 Bailey Ave.									
Mount Kisco	Mount Kisco									
NY	NY									
10549	10549									
▶ HudsoHudson Highland Group, Inc.										
▶ MI Developments Inc.										
▶ Miller International										

1 2 3 4 5 > >>

Orders Portlet Customizer (./samples/rich_web_ui/customizers/OrdersViewCustomizer.model)

- Uses Customizer and other builders to create the UI for customization
- Uses Dojo Drag and Drop builder to hide/show columns
- Uses Buttons to reorder columns
- Allows changing Portlet UI Theme

Select Theme

Select Theme

Select Columns To Display

To show additional columns, drag them from "Available Columns" onto the "Displayed Columns" heading.
To hide a column, drag it from "Displayed Columns" onto the "Available Columns" heading.

Available Columns - Drop Here To Hide	Displayed Columns - Drop Here To Show	Up	Down
Description	Order ID	▲	▼
Time Shipped	Date Ordered	▲	▼
Email	Status	▲	▼
State	Date Shipped	▲	▼
Zip	Quantity	▲	▼
	Amount	▲	▼
	Billing	▲	▼
	Shipped	▲	▼

Articles Feed and Tag Cloud (../samples/rich_web_ui/TagCloud.model and ../samples/rich_web_ui/DeveloperWorksConsumer.model)

- Dojo slider is used to filter the list of tags shown by relative tag usage
- Fires client event to separate portlet which will display search results from selected tag



Multipage Registration Form (../samples/rich_web_ui/Convention.model)

- Splits large registration input structure into several form pages with final review page
- The entire input structure is submitted from the final page
- Uses Custom Imported HTML pages created by a UI designer
- Provides a banner at the top which indicates which page of the form one is viewing

Personal > Choose Days > Day One > Day Two > Confirm

* Name:

Address 1:

Address 2:

City:

State: Zip:

Birth Date:

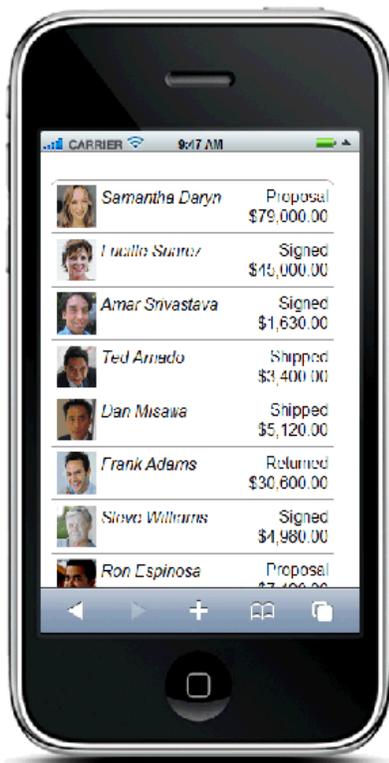
Company:

Next

Sales Order Mobile (../samples/rich_web_ui/SalesOrdersMobile.model)

Shows recent sales and pipeline for a sales team for desktop browser or smart phones

- Uses profiling based on client device type to deliver UI optimized for smart phone or desktop
- For smartphones it shows names as a clickable list instead of a wide tabular display
- Uses CSS3 styling for Android® and iPhone® devices
- For viewing in Portal use with a smartphone enabled Portal Theme



WebSphere Portal Home Administration Applications Search Center

Getting Started Features LauncherPage

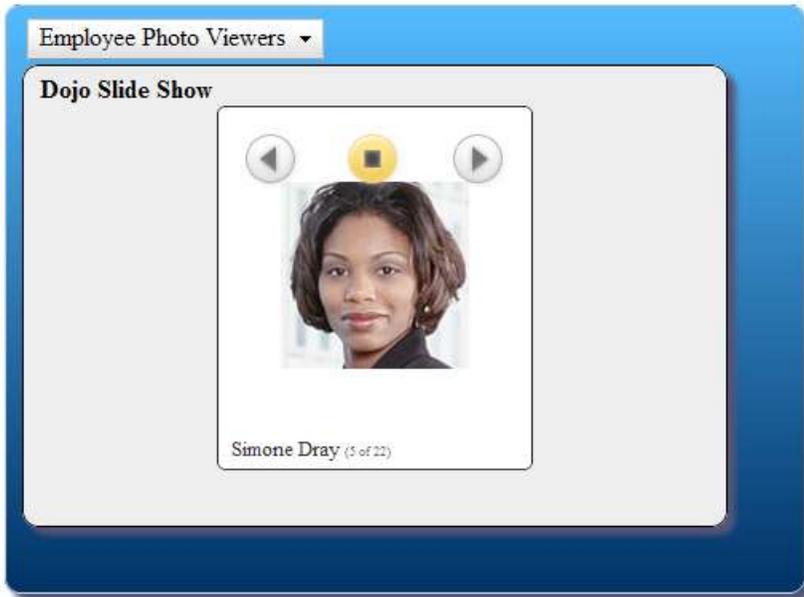
You are in: LauncherPage > SalesOrdersMobile

Rich Web UI Sales Orders Mobile

Name	Photo	Order Id	Amount	Ordered	Status	Quantity
Samantha Daryn		006731	\$79,000.00	2002-06-16	Proposal	76
Lucille Suarez		000715	\$45,000.00	2000-02-12	Signed	4
Amar Srivastava		004912	\$1,630.00	2005-08-03	Signed	27
Ted Amado		005978	\$3,400.00	2001-05-01	Shipped	38
Dan Misawa		001629	\$5,120.00	2006-11-16	Shipped	100
Frank Adams		009532	\$30,600.00	2001-09-02	Returned	8
Steve Williams		001350	\$4,980.00	2001-10-21	Signed	58
Ron Espinosa		001370	\$7,490.00	2002-09-21	Proposal	62
Ed ElAmon		006592	\$21,000.00	2006-11-16	Proposal	100
Pierre Dumont		002835	\$5,600.00	2005-03-09	Signed	15
Gardner Raynes		007241	\$16,000.00	2005-08-03	Signed	27
Dennis Michaels		005912	\$4,210.00	2005-08-03	Proposal	27
Suzanne Miles		001724	\$2,560.00	2003-06-11	Returned	148

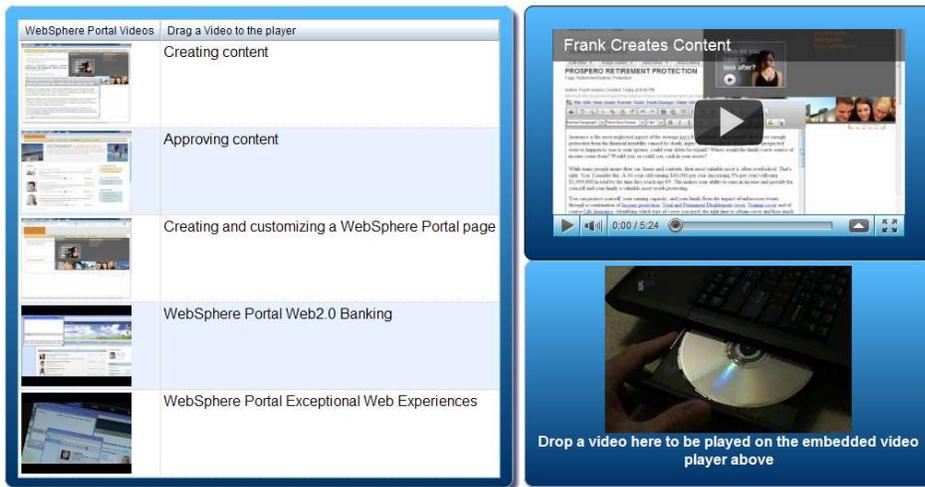
Employee Photo Directory (../samples/rich_web_ui/EmployeePhotoDirectory.model)

Demonstrates different ways to browse employee photo images using the new Dojo Lightbox builder and using the Dojo Page Elements builder with the Dojo Slideshow and Dojo Image Gallery widget types, selectable via a menu created with the Dojo Drop Down Button builder



Video Viewer (../samples/rich_web_ui/VideoViewer.model)

Demonstrates Dojo based Drag and Drop, leveraging embedded videos of WebSphere Portal topics



Installation:

To run the sample application:

1. Download the sample ZIP file and import it into a project using the File, Import, WebSphere Portlet Factory Archive command (you can also right click the project, then choose Import, WebSphere Portlet Factory Archive). The project must also have the Dojo and Tutorials And Samples feature sets installed.
2. Publish your project to the server.
3. Open the Index model and run it to see the application. This model will run standalone as well as in IBM WebSphere Portal. To add the portlet to a WebSphere Portal page, find the portlet named Rich UI Launch Page. You will be able to access the other models from this main Launcher page.

Using this sample as a portlet:

The included "Launch Page" portlet can be used in WebSphere Portal to provide navigation among the other samples. When using this approach, the following page/portlet structure is assumed:

Portal Page Unique Name	Portlet(s) on Page
LauncherPage	Rich Web UI Launch Page
Employees	Rich Web UI Find Employees / Rich Web UI Employee details
OrdersView	Rich Web UI – Orders Tab View
TagCloud	Rich Web UI Tag Cloud / Rich Web UI DeveloperWorks Consumer
MultiPageForm	Rich Web UI Multi Page Form
SalesOrdersMobile	Rich Web UI Sales Orders Mobile
EmployeePhotos	Rich Web UI Employee Photo Directory
VideoViewer	Rich Web UI Video Viewer

Other setup needed by portlets

- For the portal group profiling used in the Orders portlet, you will need to have a portal group called "customers" and a user in that group. It is recommended to also make the user a member of the wpsadmins group so that you don't have to mess around with portlet access rights.
- In order to get WebSphere Portal to work well on a smartphone, you will also want to use the WebSphere Portal smartphone theme posted here: <https://greenhouse.lotus.com/plugins/plugincatalog.nsf/assetDetails.xsp?action=editDocument&documentId=3148931F1C482700852576AC0050BD8C>. However, you can use the mobile sample standalone on a smartphone if you don't have the smartphone WebSphere Portal theme installed.

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