

JBoss Portal Tools Reference Guide

Version: 3.0.0.alpha

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Introduction

Starting from 3.0 version, JBoss set of plugins extends [JBoss Portal](#) features. Thus, this guide is intended to explain you how to manage the functionality [JBoss Tools](#) provide to ease the development with [JBoss Portal](#).

1.1. Preface

[JBoss Portal](#) provides an open source platform for hosting and serving a portal's Web interface, publishing and managing its content, and customizing its experience. It supports a wide range of features, including standard portlets, single sign-on, clustering, and internationalization.

1.2. Key Features

The next table lists key features supplied by [JBoss Portal Tools](#).

Table 1.1. Key Functionality of JBoss Portal Tools

Feature	Benefit	Chapter
Wizards for creating Projects with Portlet Facets	New Dynamic Web Project wizard allows you to select proper Configuration to enable Portlet Facet in it.	creating a Dynamic Web Project
Create Java Portlet wizard	The wizard enables creating a JSR-186/JSR-286 compliant portlet.	adding Java Portlet to a project
Create JSF/Seam Portlet wizard	This wizard creates a JSF/Seam portlet that uses JBoss Portlet Bridge	adding JSF/Seam Portlet to a project

1.3. Other relevant resources on the topic

- [JBoss Portal Home Page](http://www.jboss.org/jbossportal/) [http://www.jboss.org/jbossportal/]
- [JBoss Portal Wiki](http://wiki.jboss.org/wiki/JBossPortal) [http://wiki.jboss.org/wiki/JBossPortal]
- [JBoss Tools Home Page](http://www.jboss.org/tools/) [http://www.jboss.org/tools/]
- [JBoss Tools Forum](http://www.jboss.com/index.html?module=bb&op=viewforum&f=201) [http://www.jboss.com/index.html?module=bb&op=viewforum&f=201]
- [The latest JBossTools/JBDS documentation builds](http://download.jboss.org/jbosstools/nightly-docs/) [http://download.jboss.org/jbosstools/nightly-docs/]

- [Stable JBossTools/JBDS documentation](http://www.jboss.com/products/devstudio/docs) [http://www.jboss.com/products/devstudio/docs]
(supplied with the latest JBDS release, 1.1.0GA currently)

Installation issues

This section provides you with the steps on how to start with [JBoss Portal](#) and integrated features using [JBoss Tools](#).

- First, you need to have Eclipse Ganymede with JBoss Tools 3.0Alpha installed.



Tip:

Read [JBoss Tools Installation](#) [[../GettingStartedGuide/html_single/index.html#WhatDifferenceBetweenJBDSAndJBossTools](#)] section in our Getting Started documentation to find out how to install [JBoss Tools](#) onto Eclipse.

- Next, download the JBoss Portal + JBoss AS bundle from [JBoss Portal Download page](#) [<http://www.jboss.org/jbossportal/download/index.html>]



Note:

You need JBoss Portal 2.7 if you want to work with a Portlet 2.0

- Extract the bundle wherever you want on your hard drive

Starting the Project with JBoss Portal

To get started with [JBoss Portal](#) and [JBoss Tools](#), you should first have a Web Project pointed to the JBoss Portal Runtime. Thus, this chapter is intended to give you a detail look at how you can get it.

3.1. Creating a Dynamic Web Project

To create a Dynamic Web Project, go to [File > New > Dynamic Web Project](#) if you are in the [Web Perspective](#) or [File > New > Other > Web > Dynamic Web Project](#) in any other Perspective. The first page of the New Dynamic Web Project wizard looks as follows.

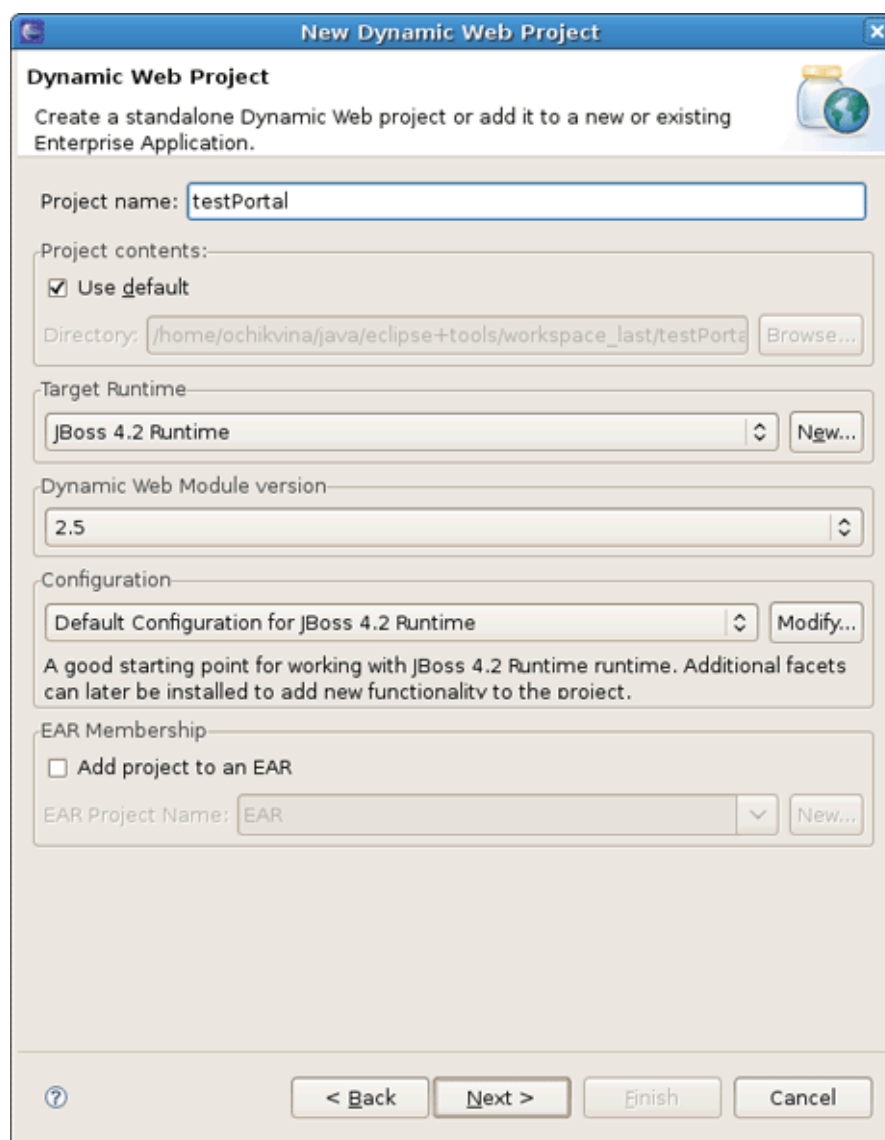


Figure 3.1. New Dynamic Web Project

Fill in the name of your project. Next, click on the [New...](#) button in the [Target Runtime](#) section to specify a new Target Runtime. Click *Jboss 4.2 Runtime* and press [Next](#).

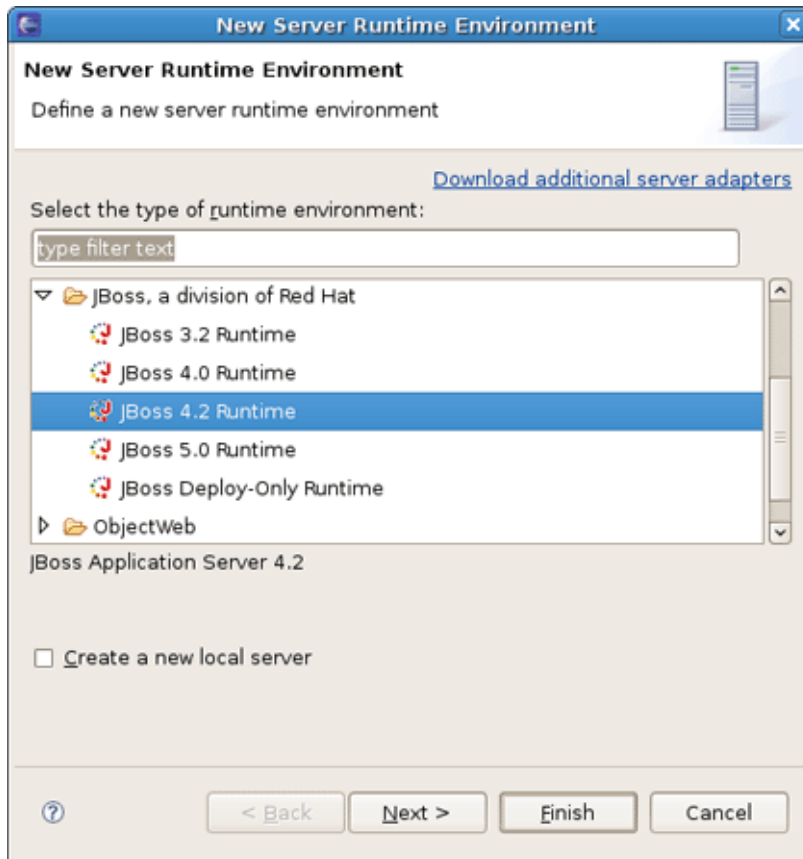


Figure 3.2. New Server Runtime

On the next page you should give a name to the runtime. Let's call it *JBoss Portal 2.7 Runtime*. And then point it to the location of your JBoss AS + Portal installation.



Note:

The JBoss Tools Portlet feature has been tested using 2.6.5 and 2.7.0.ALPHA versions of [JBoss Portal](#). Remember, if you want to use Portlet version 2.0 (JSR-268), you have to choose JBoss Portal 2.7.

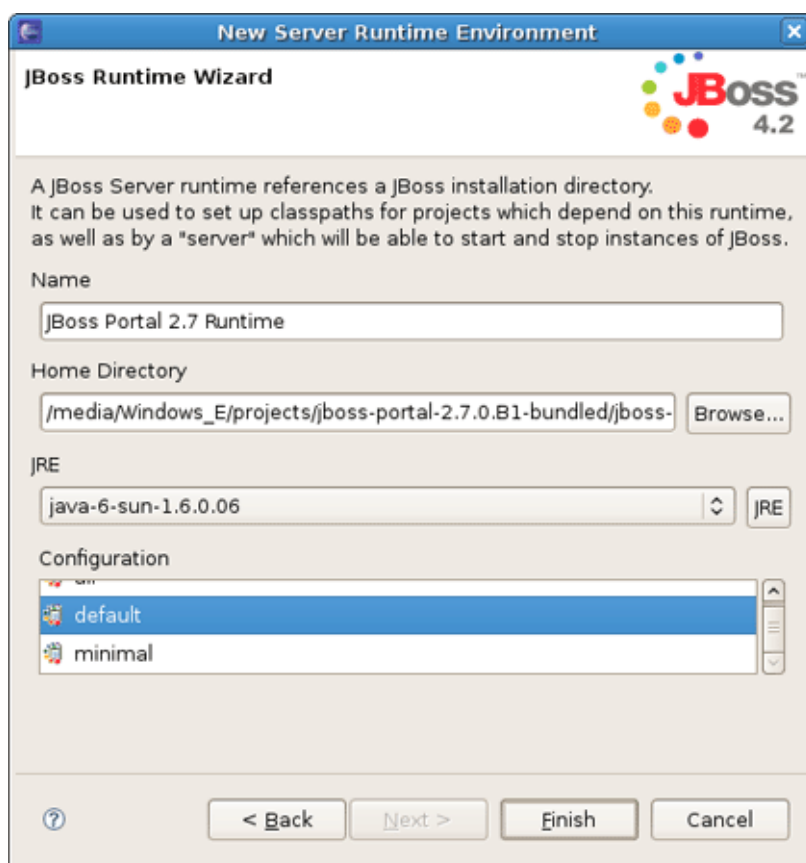


Figure 3.3. Target Runtime

Click on [Finish](#). It returns you to the [New Dynamic Web Project](#) wizard where it's also necessary to set the project Configuration. [JBoss Tools](#) (starting from 3.0 Alpha) support the JSR-168 Portlet Specification (Portlet 1.0), JSR-286 Portlet Specification (Portlet 2.0). Thus you can choose *Portlet Project v1.0* or *Portlet Project v2.0*.

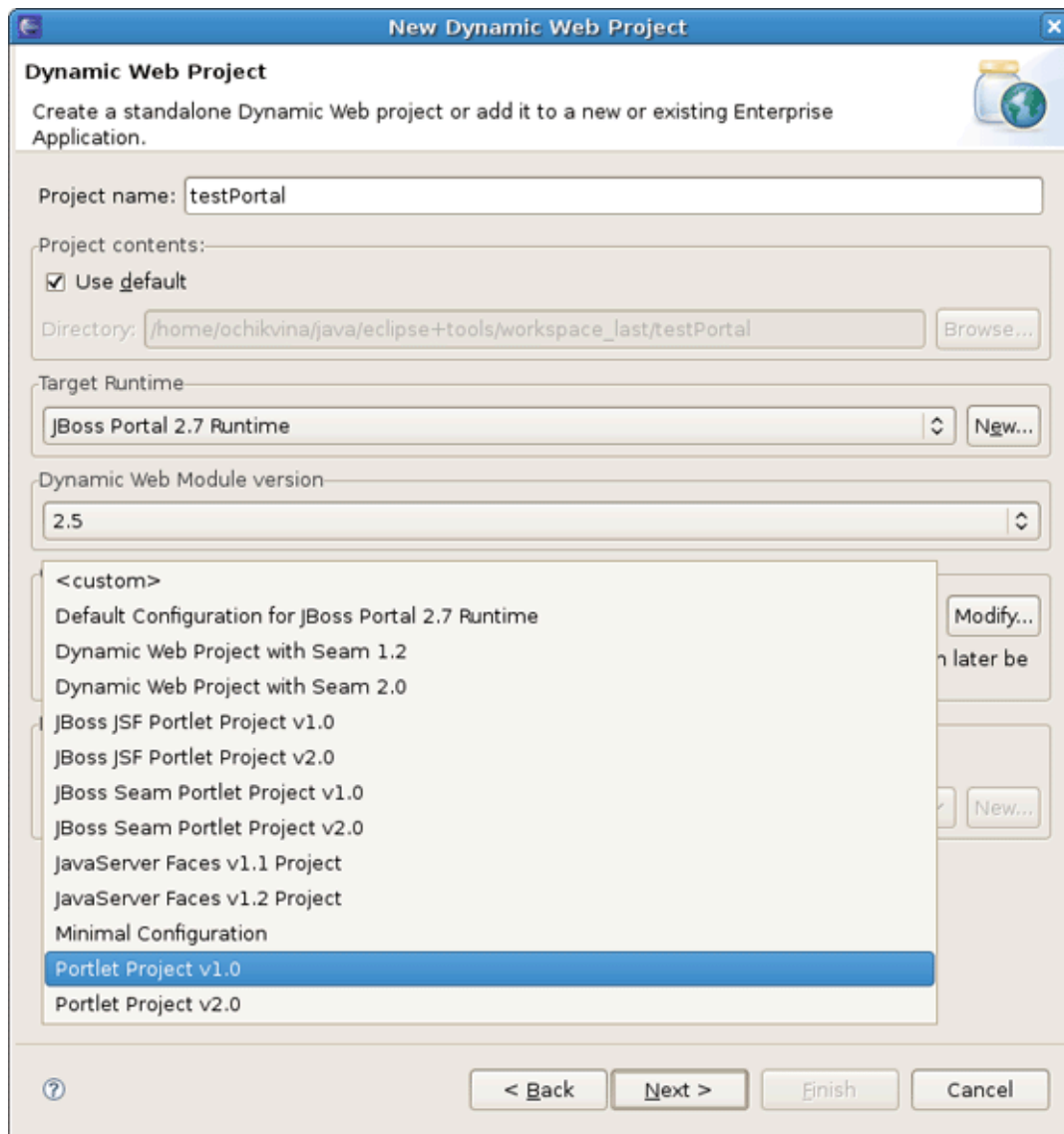


Figure 3.4. Setting the Project Configuration

The last wizard page is for configuring web modules. Here all values are set, so you can leave everything as it is.

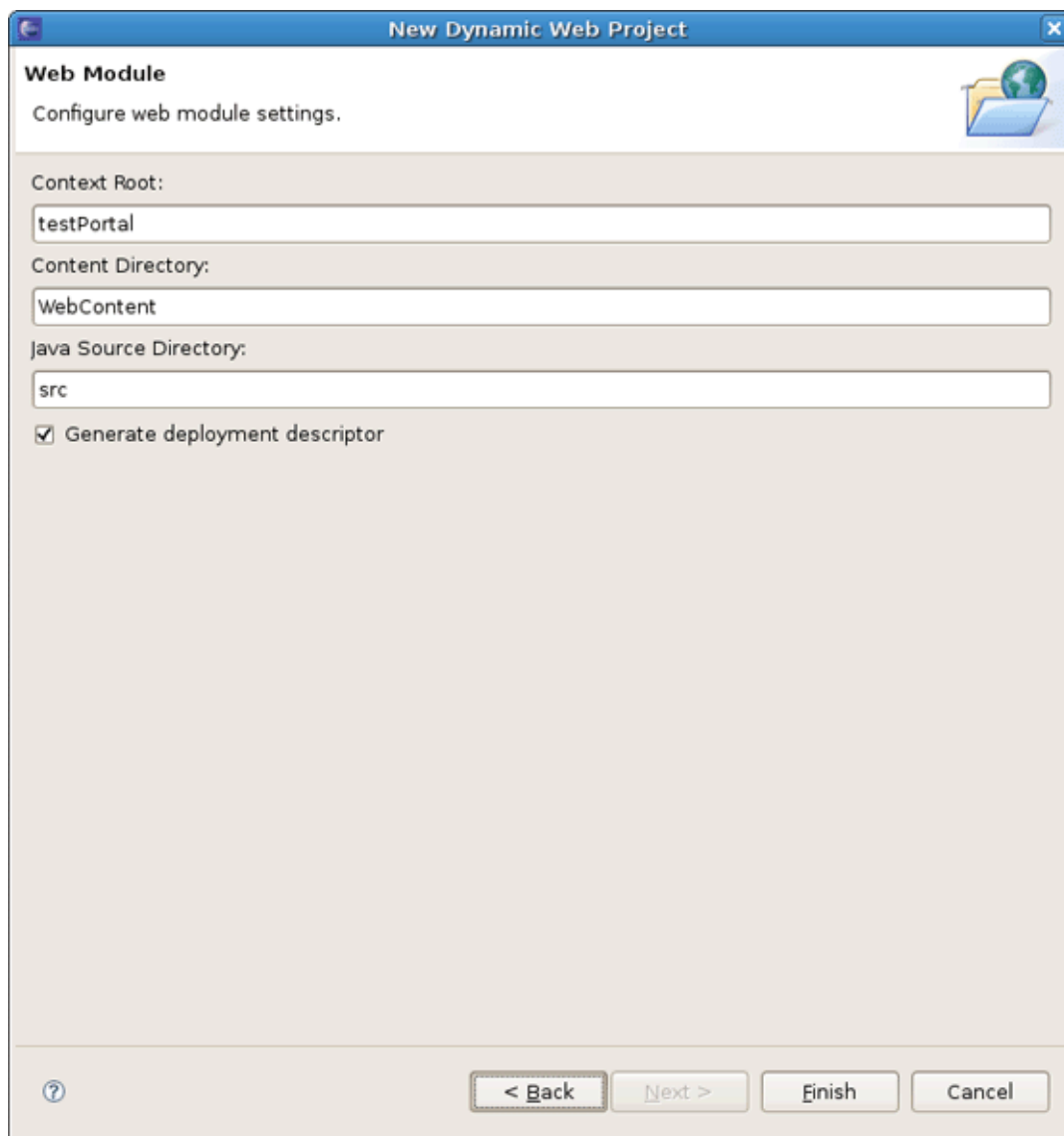


Figure 3.5. The Project Web Modules

Press *Finish*.

That's it! Our base project is done.

3.2. The Project Structure Overview

Now, let's look at the structure of the just created project.

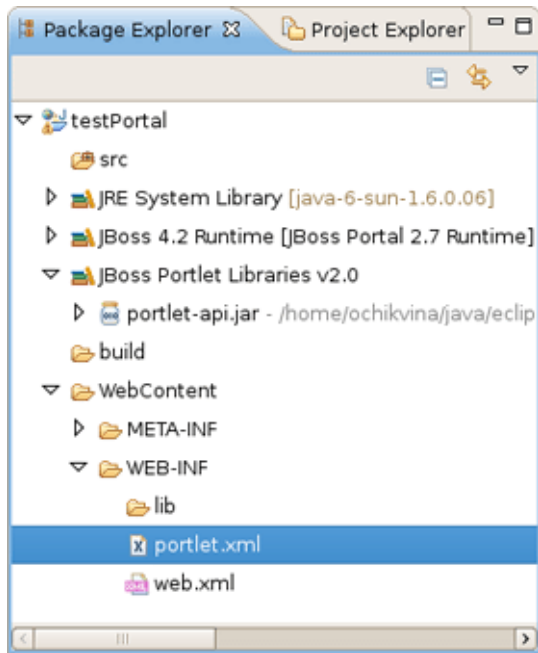


Figure 3.6. The Project Structure Overview

What [JBoos Tools](#) have done here, it's adding JBoss Portlet facet to the project, creating an empty [portlet.xml](#) file and adding the portlet library to the project classpath.

JBoss Portlet Support

[JBoss Tools](#) (starting from 3.0 Alpha) support the JSR-168 Portlet Specification (Portlet 1.0), JSR-286 Portlet Specification (Portlet 2.0) and work with [Portlet Bridge](#) for supporting Portlets in JSF/Seam applications. All these are performed through the Create New Portlet wizards.

There are two kinds of the Create Portlet wizards: [Java Portlet](#) and [JSF/Seam Portlet](#).

How to create Java Portlet within just organized Dynamic Web Project we will show you further in this chapter.

4.1. Adding a Java Portlet to the Project

Here, we'll show how you can add a new Java Portlet to our project.

Call the New Java Portlet wizard by selecting [New > Other > JBoss Tools Web > Portlet > Java Portlet](#).

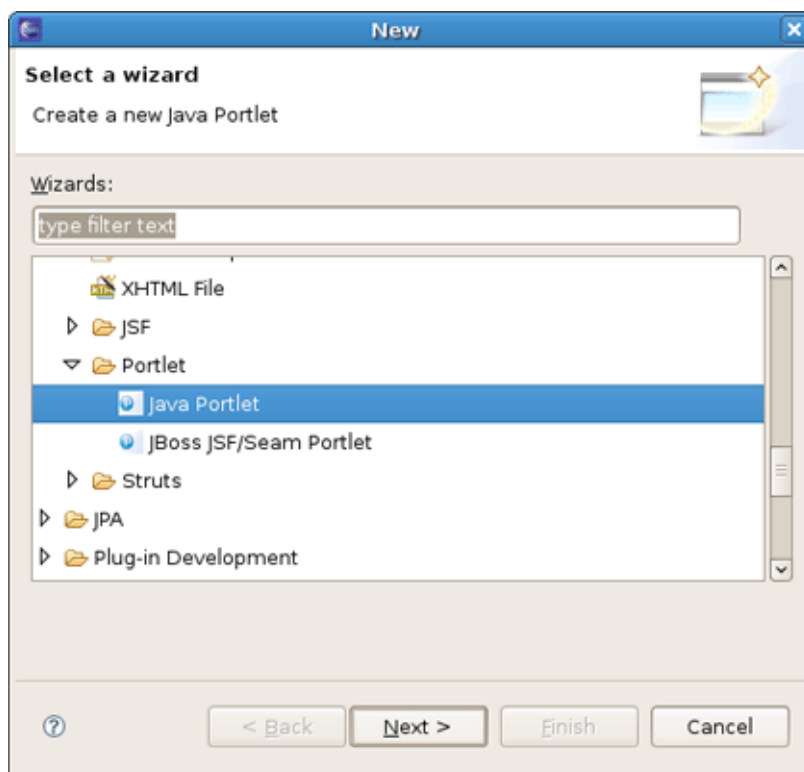


Figure 4.1. New Java Portlet

The Web Project and Source Folder fields the wizard fills in for you itself. Specify the Java package and the Class name and click [Next](#).

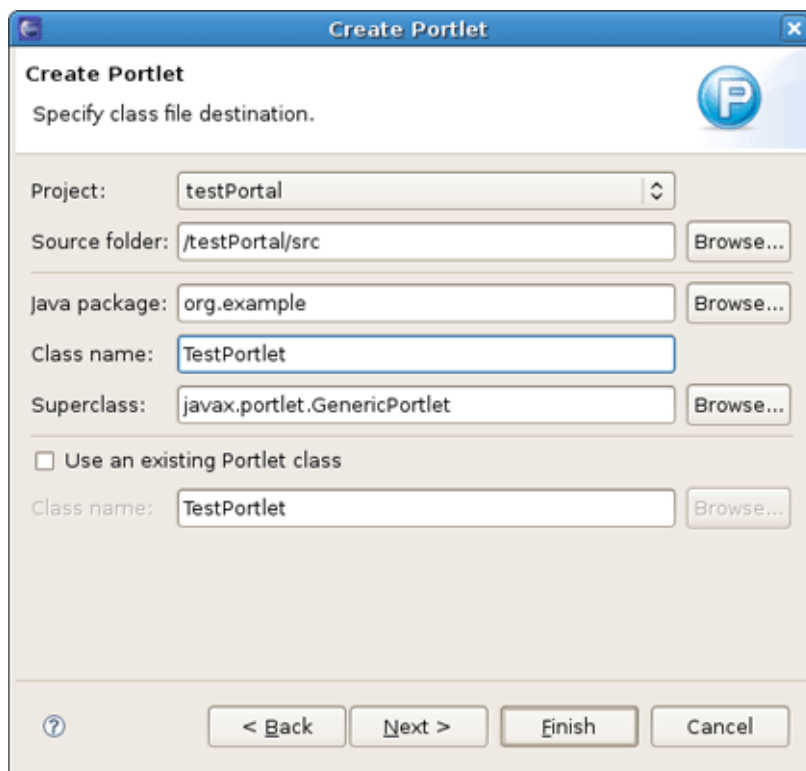
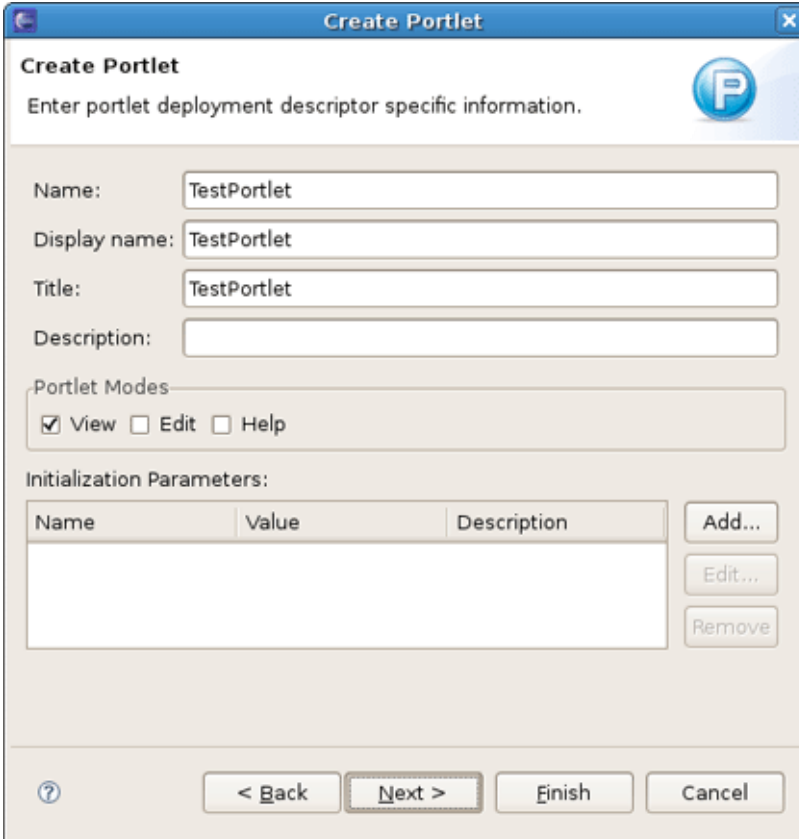


Figure 4.2. Specifying Class File Destination

On the other page you will be able to set the display name of the Portlet, a title, a description, the supported modes and init parameters.



The image shows a 'Create Portlet' dialog box with a blue title bar and a close button. The main area is light beige. At the top, it says 'Create Portlet' and 'Enter portlet deployment descriptor specific information.' with a blue 'P' icon. Below are four text input fields: 'Name:' (TestPortlet), 'Display name:' (TestPortlet), 'Title:' (TestPortlet), and 'Description:'. Under 'Portlet Modes', there are three checkboxes: 'View' (checked), 'Edit', and 'Help'. Below that is the 'Initialization Parameters' section, which contains a table with columns 'Name', 'Value', and 'Description'. To the right of the table are three buttons: 'Add...', 'Edit...', and 'Remove'. At the bottom left is a help icon (?). At the bottom are four buttons: '< Back', 'Next >', 'Finish', and 'Cancel'.

Create Portlet

Enter portlet deployment descriptor specific information.

Name: TestPortlet

Display name: TestPortlet

Title: TestPortlet

Description:

Portlet Modes

☒ View ☐ Edit ☐ Help

Initialization Parameters:

Name	Value	Description
------	-------	-------------

Add... Edit... Remove

? < Back Next > Finish Cancel

Figure 4.3. Specifying Class File Destination

On the next screen you can define which methods from *GenericPortlet* you want to override.



Figure 4.4. Specifying Class File Destination

The last screen lets you build [JBoss Portal](#) specific descriptors to create an instance during the deployment and place it directly on the Portal.

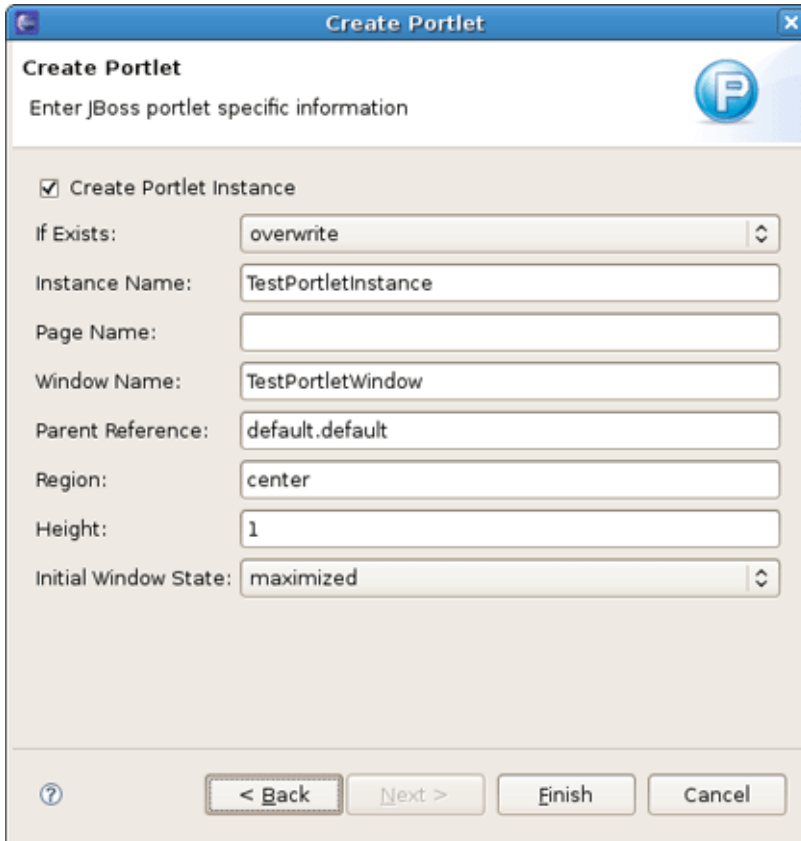
The image shows a 'Create Portlet' dialog box with a blue title bar and a 'P' icon. The main area is titled 'Create Portlet' and 'Enter JBoss portlet specific information'. It contains a checked checkbox 'Create Portlet Instance'. Below it are several input fields: 'If Exists:' with a dropdown set to 'overwrite', 'Instance Name:' with 'TestPortletInstance', 'Page Name:' (empty), 'Window Name:' with 'TestPortletWindow', 'Parent Reference:' with 'default.default', 'Region:' with 'center', 'Height:' with '1', and 'Initial Window State:' with a dropdown set to 'maximized'. At the bottom are buttons for '< Back', 'Next >', 'Finish', and 'Cancel', along with a help icon.

Figure 4.5. Specifying Class File Destination



Tip:

If you uncheck the *Create Portlet Instance* checkbox, [JBoss Tools](#) won't create the deployment elements in the *default-object.xml* and *portlet-instances.xml* files.

Once Java Portlet is created, new resources have been added to the project structure. As you can see on the figure below, it adds a Java Portlet class ([TestPortlet.java](#) in our case), [default-object.xml](#) and [portlet-instances.xml](#) files and updates [portlet.xml](#) as well.

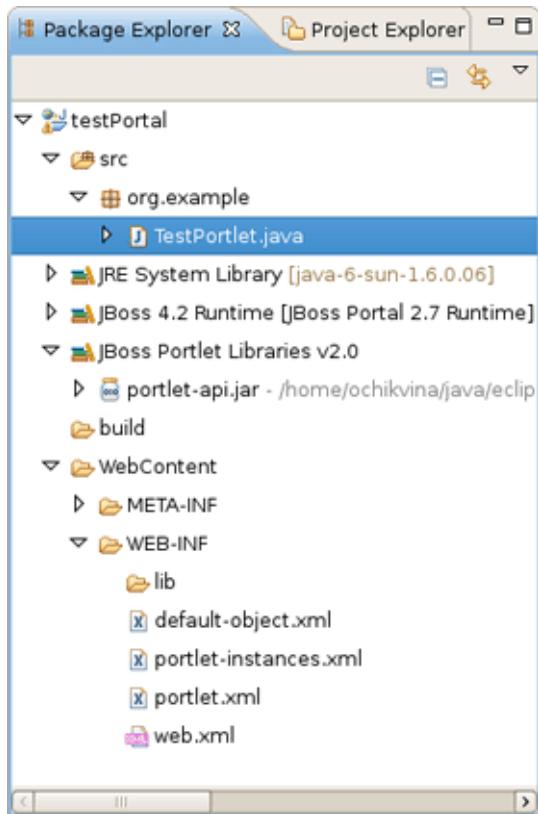


Figure 4.6. The structure of Web Project with Java Portlet created

Thus, now the Project is ready to be built and deployed.

4.2. Adding JSF/Seam Portlets

What comes to JSF/Seam Portlets, you need to have a Web Project with enabled JSF/Seam Portlet Facets. Thus in this case when starting a new Dynamic Web Project, you should point to *JBoss JSF/Seam Portlet Project v1.0* (or *v2.0*) Configuration respectively.

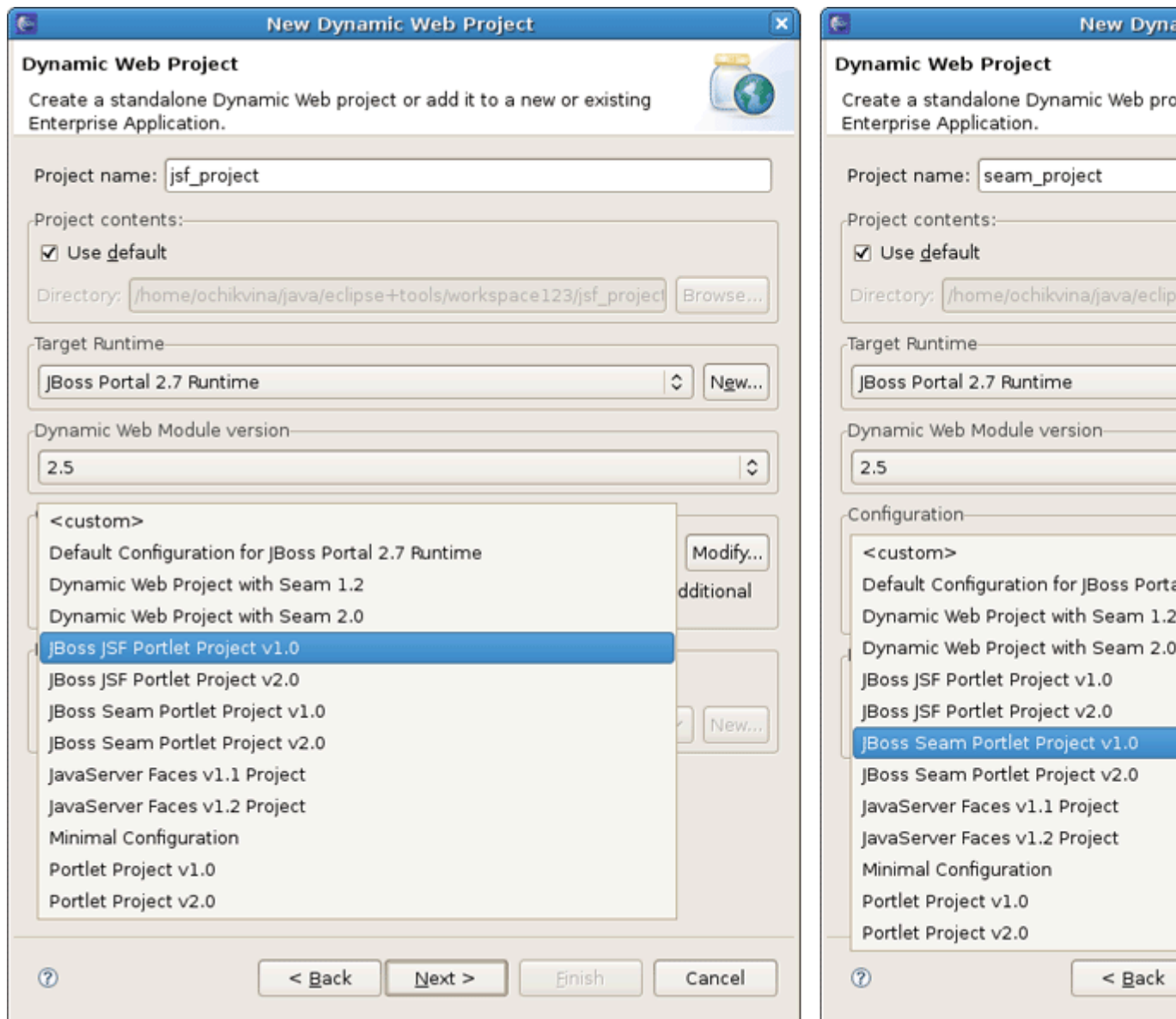


Figure 4.7. Dynamic Web Project with JSF/Seam Portlet Facet

To create Portlet in the JSF/Seam Project you should go to [New > Other > JBoss Tools Web > Portlet > JSF/Seam Portlet](#).

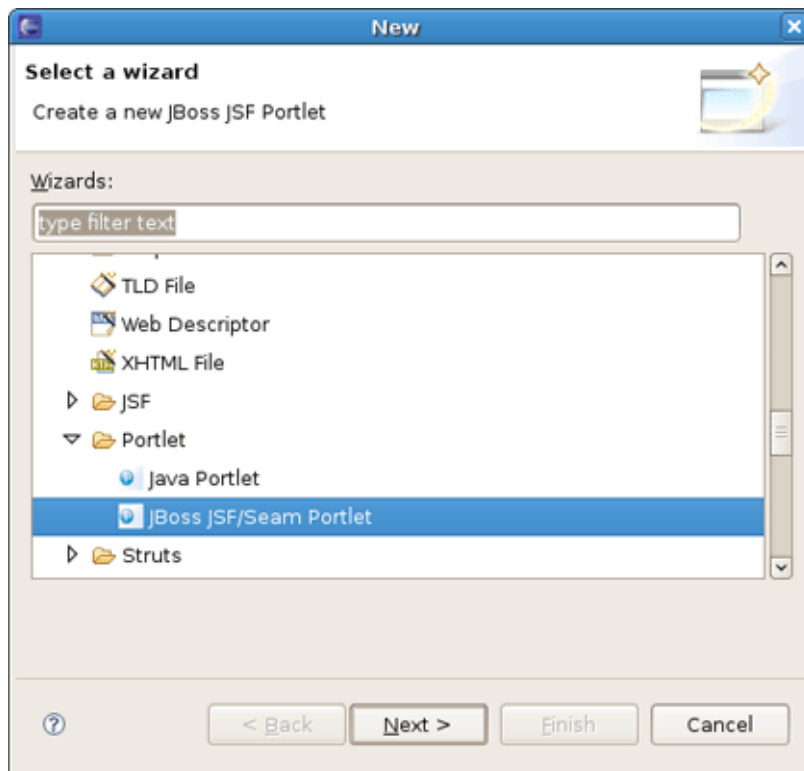
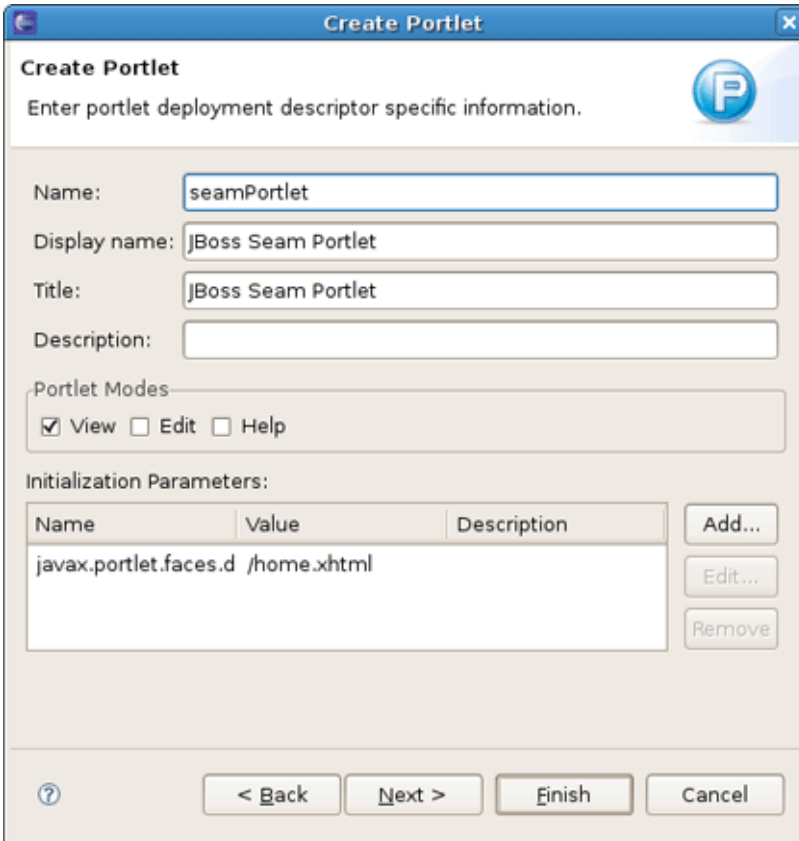


Figure 4.8. Calling the JSF/Seam Portlet Wizard

If a project contains the Seam Portlet facet, default values in the wizard will be set as for a Seam Portlet.



The image shows a 'Create Portlet' wizard window. It has a title bar 'Create Portlet' and a close button. Below the title bar is a header area with the text 'Create Portlet' and 'Enter portlet deployment descriptor specific information.' and a blue circular icon with a white 'P'. The main area contains several input fields: 'Name' with 'seamPortlet', 'Display name' with 'JBoss Seam Portlet', 'Title' with 'JBoss Seam Portlet', and 'Description' which is empty. Below these is a 'Portlet Modes' section with three checkboxes: 'View' (checked), 'Edit' (unchecked), and 'Help' (unchecked). At the bottom of the main area is an 'Initialization Parameters' section. It contains a table with three columns: 'Name', 'Value', and 'Description'. The table has one row with the value 'javax.portlet.faces.d /home.xhtml'. To the right of the table are three buttons: 'Add...', 'Edit...', and 'Remove'. At the very bottom of the window are four buttons: a help button (question mark icon), '< Back', 'Next >', 'Finish', and 'Cancel'.

Create Portlet
Enter portlet deployment descriptor specific information.

Name:

Display name:

Title:

Description:

Portlet Modes
☒ View ☐ Edit ☐ Help

Initialization Parameters:

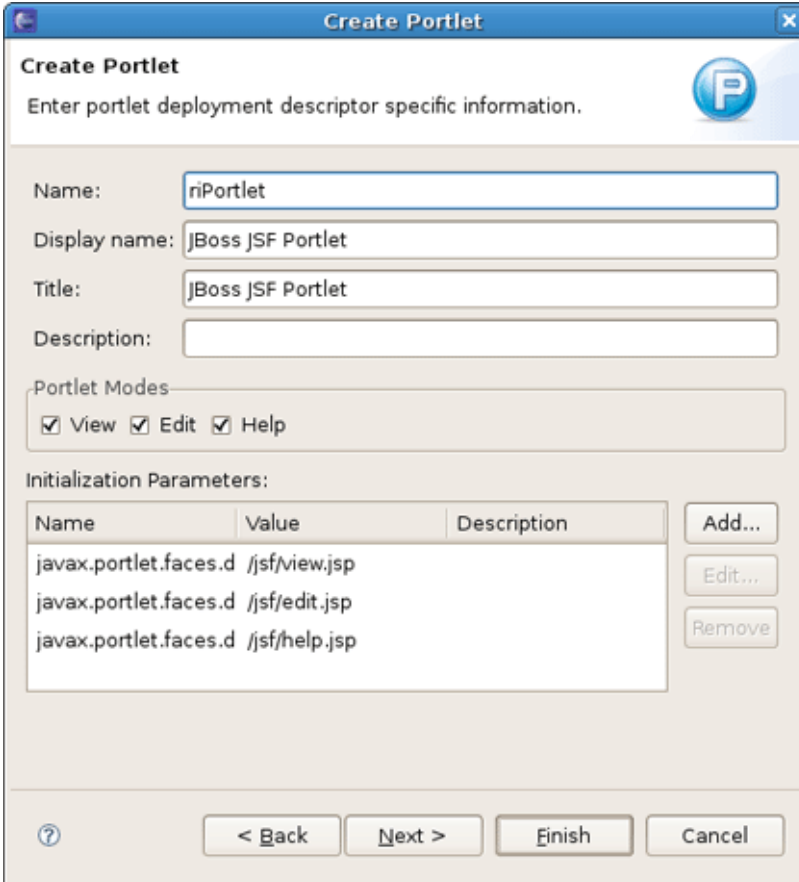
Name	Value	Description
javax.portlet.faces.d	/home.xhtml	

Buttons: Add... Edit... Remove

Navigation: ? < Back Next > Finish Cancel

Figure 4.9. JBoss JSF/Seam Portlet Wizard Page with JSF defaults

Otherwise, the default values are as defined for a JSF Portlet.



The image shows a 'Create Portlet' wizard window. It has a title bar 'Create Portlet' and a close button. Below the title bar is a header area with the text 'Create Portlet' and 'Enter portlet deployment descriptor specific information.' To the right of the header is a blue circular icon with a white 'P'. The main area contains several input fields: 'Name:' with the value 'riPortlet', 'Display name:' with the value 'JBoss JSF Portlet', 'Title:' with the value 'JBoss JSF Portlet', and 'Description:' which is empty. Below these is a section 'Portlet Modes' with three checked checkboxes: 'View', 'Edit', and 'Help'. Underneath is a section 'Initialization Parameters:' containing a table with three columns: 'Name', 'Value', and 'Description'. The table has three rows, all with the same values: 'javax.portlet.faces.d', '/jsf/view.jsp', and an empty description. To the right of the table are three buttons: 'Add...', 'Edit...', and 'Remove'. At the bottom of the window are four buttons: a help button (question mark icon), '< Back', 'Next >', 'Finish', and 'Cancel'.

Create Portlet
Enter portlet deployment descriptor specific information.

Name:

Display name:

Title:

Description:

Portlet Modes

☒ View ☒ Edit ☒ Help

Initialization Parameters:

Name	Value	Description
javax.portlet.faces.d	/jsf/view.jsp	
javax.portlet.faces.d	/jsf/edit.jsp	
javax.portlet.faces.d	/jsf/help.jsp	

Buttons: Add..., Edit..., Remove...

Navigation: ? < Back Next > Finish Cancel

Figure 4.10. JBoss JSF/Seam Portlet Wizard Page with Seam defaults

4.3. Deploying a Portlet to JBoss Portal

You can deploy the created project in the way you deploy any other Web Application. Right click on the project and do [Run As > Run On Server](#) and accept the defaults. On the [Add and Remove Projects](#) page move the created Project to the right and click [Finish](#).

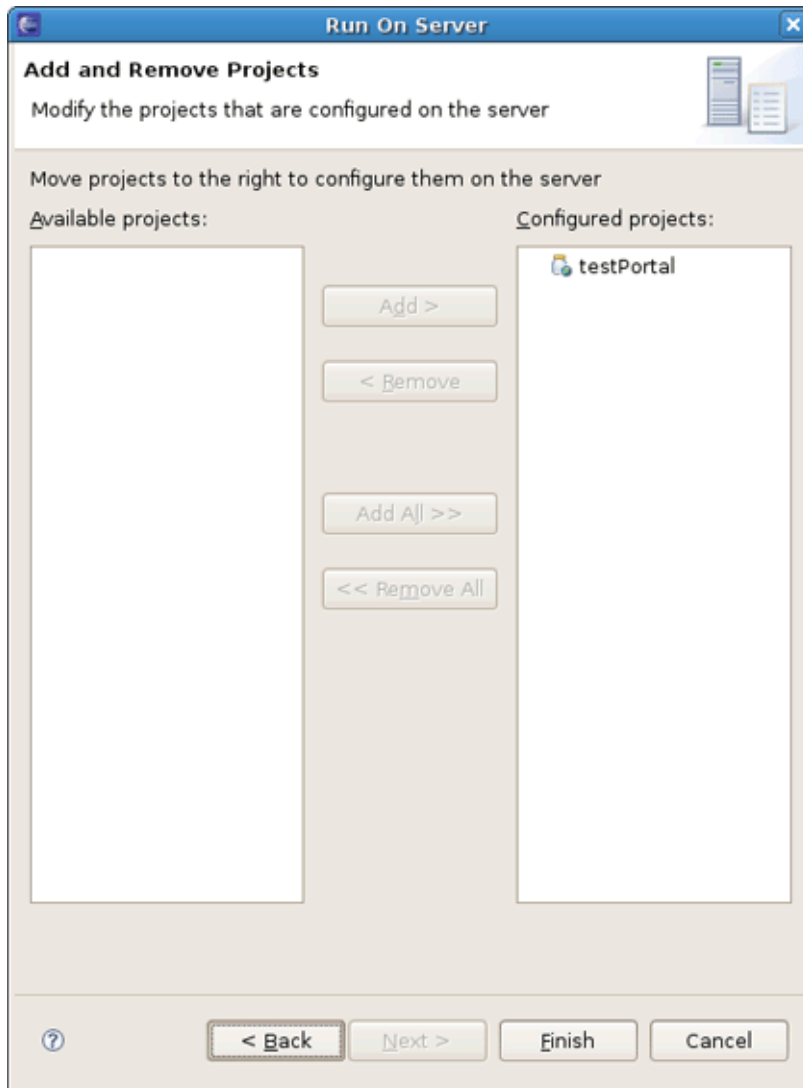


Figure 4.11. Deploying the Portlet Application

It will deploy the Portlet Web Application and start [JBoss AS](#).



Tip:

You should use *http://localhost:8080/portal* URL to see your Portlet in the Browser.

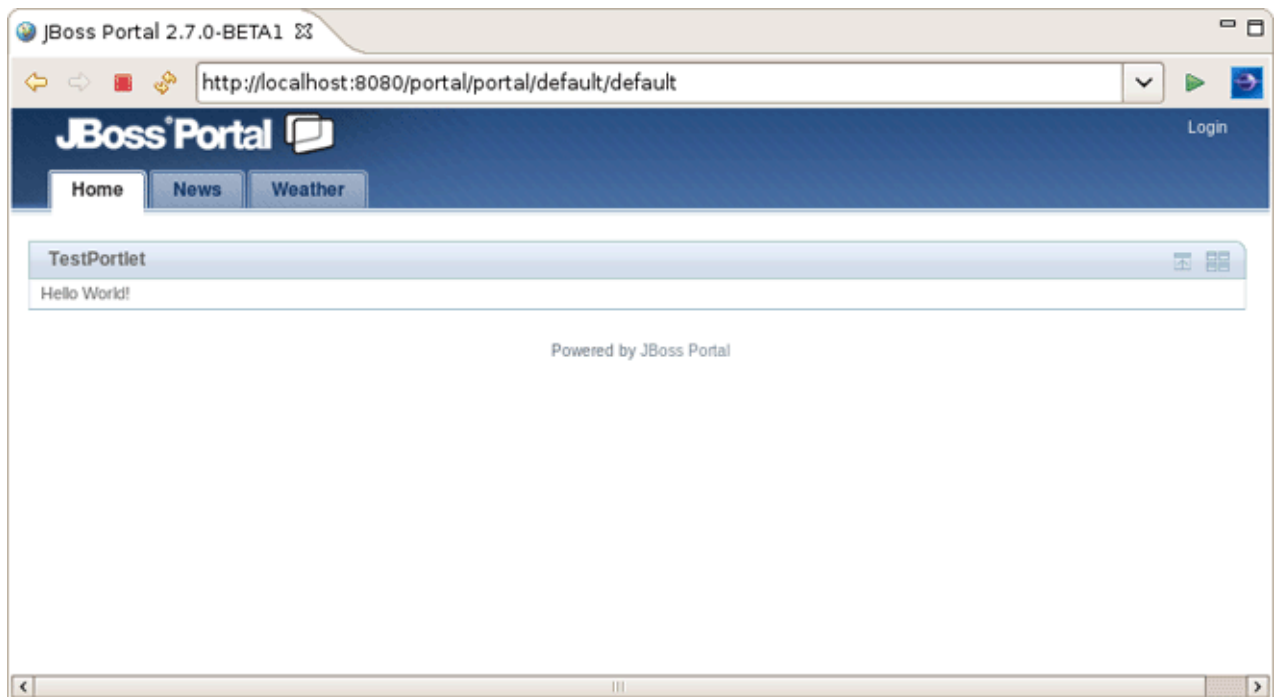


Figure 4.12. Java Portlet in the Browser Window

The JSF Portlet looks in the Browser as follows.

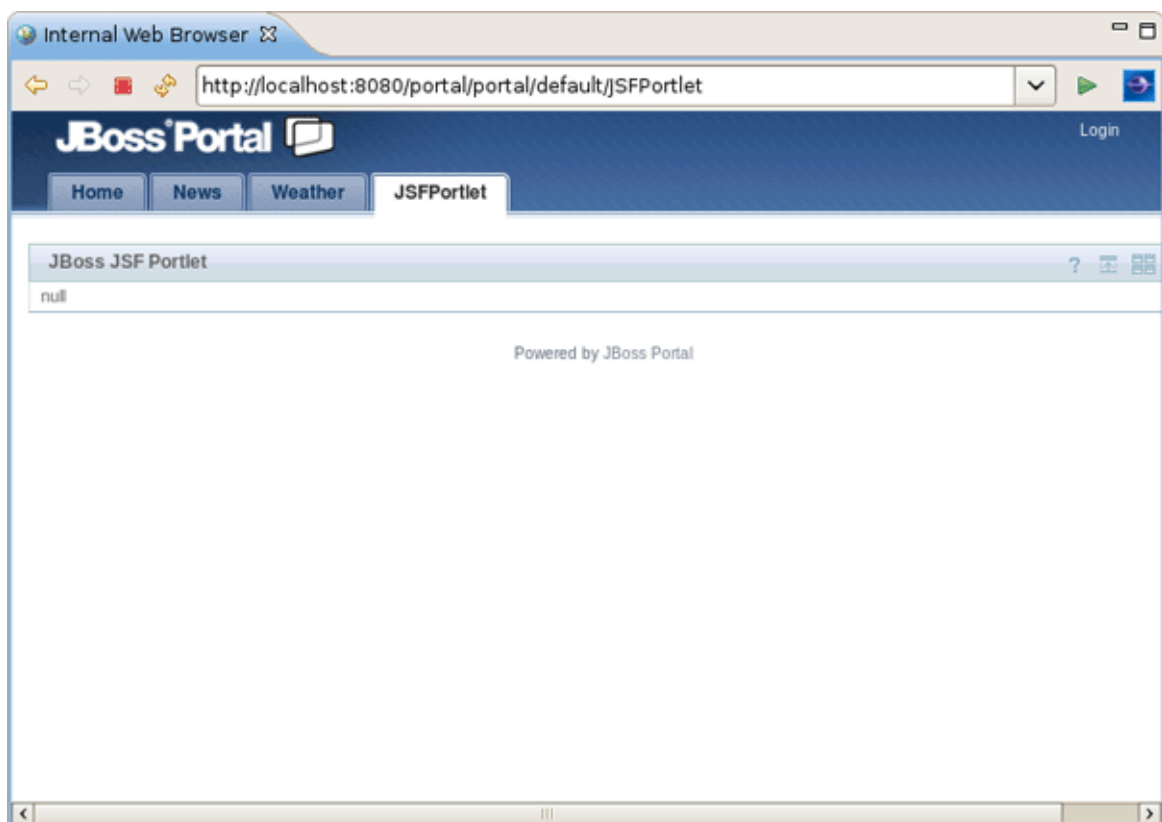


Figure 4.13. JSF Portlet in the Browser Window