

# **WebSphere Portal Server ( 5 days)**

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## **Chapter 1. Introduction to WebSphere Portal Server**

- What is a Portal
- An Example of a WebSphere Portal Site
- General Portal Architecture
- WebSphere Portal Products
- A Typical Network Architecture for WebSphere Portal
- WebSphere Portal Server
- WebSphere Portal Server Architecture
- Page Aggregation Modules
- Portlet
- WebSphere Portal Built-in Portlets
- Portlet Application
- Portlet Mode and State
- WebSphere Portal Information
- Java Portlet Specification 1.0 (JSR-168)
- Java Portlet Specification 2.0 (JSR-286)
- Portlet Security Overview
- Portal Access Control
- Portal User Management
- Credential Vault Service
- Best Practices For Development
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- Review Questions
- Review Answers

## **Chapter 2. Portlet Development Using Rational Application Developer 9.1**

- The RAD 9.1 Product
- Portlet Development Support
- RAD 9.1 Installation
- Portal Server 8.5 Installation
- Basic Steps in Portlet Development
- Project Structure
- Portlet Project
- Create a Project Structure
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- Managing the Server
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### **Chapter 3. Introduction to JSR 286 Based Portal Programming**

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- Relationship With Java SE and Java EE
- Comparing Portlets with Servlets
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- The portlet.xml File
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- Portlet Window
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- Review Answers
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### **Chapter 4. Basic Portlet Programming**

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- The Portlet Interface
- The Hello World Portlet
- Portlet Lifecycle - Initialization
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- Two Phase Request Processing
- Two Phase Request Processing Architecture
- The render Method
- The PortletRequest Interface
- The PortletResponse Interface
- The RenderResponse Interface
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- The processAction Method
- The ActionRequest Interface
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- The ActionResponse Interface
- Example Use of Render Parameters
- Dealing With Browser History

- The GenericPortlet Class
- User Session Management
- Using the Session
- Relationship of PortletSession with HttpSession
- Session Usage Example
- End of Portlet Life
- Portlet Configuration
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- Portlet Context
- Invoking the View Layer
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## **Chapter 5. Portlet Preferences**

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- Portlet Preferences API
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## **Chapter 6. Display Generation**

- Techniques in View Development
- PortletRequestDispatcher include/forward Details
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- The defineObjects Tag
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- The Build Process
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- Managing Portlet Applications
- Managing Portlets
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- Copying a Portlet Application
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- Programmatic Cache Control
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## **Chapter 12. Public Render Parameter**

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- Declare Public Render Parameter for a Portlet
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- Why Use JSF?
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- A Simple JSF Application
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- Spring MVC and Portlet Configuration
- Spring Required JARS
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- Review Questions
- Review Answers

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- Defining the Portlet Service Interface
- Example - AccountService



- Writing the Portlet Service Implementation
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- Review Questions
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- Developing a Theme as an EAR File
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