

Oracle WebLogic Portal/Portlets Development Course Summary

Description

This course provides hands-on training in Oracle WebLogic Portals/Portlets development and configuration using WebLogic Workshop. The course teaches the concepts of Portal, Portal Components and Portal Architecture. Students will learn how to use Oracle WebLogic Workshop to develop portals, portlets and configure them. They will also learn how to integrate portals/components with other web technologies: JSP, JSF and Web Services. This course gives an overview of Portal Administration and Management using Administration Console.

Objectives

At the end of this course, students will be able to:

- Understand the concepts of Portals and Portal Components
- Use Oracle WebLogic Platform Products
- Use Oracle WebLogic Workshop Portal Development Environment
- Develop Portals using WebLogic Workshop
- Develop Portlets and Test them
- Integrate Portlets with JSF-JSP Framework
- Use WebServices Portlets
- Gain a perspective about Personalization
- Handle Portal Administration and Management

Audience

- Java Developers/Programmers
- Web Developers/Programmers
- Systems Analysts
- Java Systems Architects

Prerequisites

Students should have previous knowledge of Web Programming and Java Web Development.

Duration

Five days

Oracle WebLogic Portal/Portlets Development

Course Outline

- I. WebLogic Portal Overview**
 - A. What is a Portal?
 - B. WebLogic Portal Framework
 - C. WebLogic Server
 - D. Oracle Enterprise Pack for Eclipse (OEPE)
 - E. WebLogic Portal
 - F. Administration Console
 - G. Portlets
 - H. Enterprise Portal Applications
- II. Portals and Portlets Development**
 - A. Portals Components
 - B. Portal Component Hierarchy
 - C. Portal Desktop, Book, Pages, and Portlets
 - D. Portal Development Environment in OEPE
 - E. Shared J2EE Libraries
 - F. File-Based Portals and Streaming Portals
 - G. Java Controls in Portals
 - H. JSP Tags in Portals
 - I. State/Session Management
 - J. Portlets Components
 - K. Resources for Creating Portlets
 - L. Portlet Rendering
 - M. Backing Files
- III. Portlets Basics**
 - A. Portlets and Servlets
 - B. Portlet Application
 - C. The Portlet Interface
 - D. Portlet modes
 - E. Portlet states
 - F. Portlet events
 - G. Portlet Lifecycle
 - H. Portlet Deployment Descriptor
 - I. Portlet Application Development
 - J. Developing and Testing a Portlet – Example
- IV. Portlets Programming**
 - A. Lifecycle overview
 - B. Initialization
 - C. Service Request Handling
 - D. The doView()
 - E. The doEdit()
 - F. The doHelp()
 - G. The processAction()
 - H. The render()
 - I. The destroy phase
- V. Portlet Session Management**
 - A. PortletSession
 - B. Session Scopes
 - C. Creating a Session
 - D. PortletSessionUtil
 - E. PortletSession and HttpSession
- VI. Portlet URLs and Portlet Preferences**
 - A. Creating Portlet URL References
 - B. Type of Portlet URL
 - C. Setting URL Parameters
 - D. Setting Window State
 - E. Setting Portlet Mode
 - F. PortletPreferences
 - G. Programmatic Preference Access
 - H. Specifying Preferences
 - I. Validating Preferences
- VII. Event Handling**
 - A. Portlet Events
 - B. ActionEvent
 - C. Event Handling Walk Through
 - D. Portlet-to-Portlet Communication
- VIII. Using Portlets with Servlets, JSP, and JSF Framework**
 - A. Getting a PortletRequestDispatcher
 - B. RenderRequest to HttpServletResponse
 - C. JSR Portlet Tags
 - D. Java Server Faces Overview
 - E. Using Portlet with JSF Framework
- IX. Web Services for Remote Portlets (WSRP)**
 - A. WebServices Overview
 - B. SOAP, WSDL and UDDI
 - C. WSRP Terminology
 - D. WSRP Implementation
 - E. Remote Portlets
 - F. Remote Pages
 - G. Remote Books
- X. Portals Management and Administration**
 - A. Administration Console
 - B. Admin console Library of Resources
 - C. Library Administration
 - D. Portal Administration
 - E. Portal Management
 - F. Managing Portlets using Administration Console
 - G. Remote Producers
 - H. Portal Propagation – Concepts
 - I. Portal Propagation – Steps
 - J. Using Portal Propagation Perspective
 - K. Portal Propagation - Demo