

O242 - Oracle 9i Portal with Java Portlets

Course Objectives

This course has been designed to follow-on from the iTrain 9iAS Portal Developer course.

The course introduces the integrated Java portlet development environment and covers all the practical skills involved with the design, development and deployment of Java based portlets through the Oracle Portlet toolkit.

A practical hands-on course, students will learn the full range of capabilities and skills within the Oracle Portal environment needed to manage and deploy enterprise wide Java based applications.

Who Should Attend

Web Page Developers
 Web Masters
 Web Designers
 Web Technicians
 Web Support Engineers
 Network Engineers
 Oracle Developers
 Oracle Analyst/Programmers

Prerequisites

Java Programming
 Java v2 Enterprise Edition (recommended)
 Oracle 9i PLSQL (recommended)
 Oracle 9iAS (recommended)

Duration

2 Days

Course Contents

Introduction to Oracle9iAS Portal

Oracle9iAS Portal architecture
 Oracle9iAS Portal framework
 What is a portlet provider?
 Portlets and Providers
 Development Choices
 Oracle9iAS Portal Developer Kit

Building a Simple Java Portlet

Java portlet renderer code
 Defining and modifying attributes
 Deploying the provider and its portlets to Oracle9iAS
 Containers for J2EE (OC4J)
 Configuring the application server for running the Java portlet
 Registering the Web provider with the Oracle9iAS Portal framework
 Adding the portlet to a portal page

Extending the Java Portlet Functionality

Identifying the portlet display modes
 Passing parameters to portlets to affect their behaviour

Reading portlet parameters
 Maintaining a continuous virtual connection between the client requests
 Saving Java objects into the session storage

Enabling Portlet Customization

Introducing the concept of preference storage
 Describing the role of personalization managers
 Storing the user preferences in the file system
 Saving the customization data to the database
 Modifying the provider definition file to enable portlet customization

Enabling Portlet Caching and Security

Identifying caching goals
 Expiry and validation based portlet caching concepts
 The role of Oracle9iAS Web Cache in the invalidation-based caching process
 Controlling access to portlets using security managers
 Building and applying custom security managers

Building a Java Servlet Portlet

Benefits of servlets
 Why use servlets as portlet renderers?
 Building a servlet portlet renderer
 Writing the servlet code
 Updating the provider definition file
 Deploying the provider
 Turning servlets into portlets

Building JavaServer Pages Portlets

Why use JSPs for developing portlets?
 Writing the JSP code
 Specifying the provider definition file
 Deploying the provider to the application server
 Enabling additional portlet display modes
 Using JavaBeans in JSP Portlets
 Accessing the session context information
 Adding customization to JSP portlets