Java 2 Enterprise Edition J2EE for Developers

- Course Number: J2EE
- Length: 5 Day(s)

Certification Exam

There are no exams associated with this course.

Course Overview

The J2EE Java 2 Enterprise Edition for Developers course provides students with the knowledge to build and deploy enterprise applications that comply with Java 2 Platform, Enterprise Edition (J2EE) platform standards. You'll learn about the tools and technologies of the Java 2 Enterprise Edition Software Development Kit. The enterprise components presented in this course include Enterprise JavaBeans (EJB) technology, servlets, and JavaServer Pages (JSP) technology, and the Java technology clients that use them. The J2EE platform simplifies enterprise applications by basing them on standardized, modular components, by providing a complete set of services to those components, and by handling many details of application behavior automatically, without complex programming.

Prerequisites

Basic knowledge of programming and Java programming language is required.

Audience

This course is intended for software developers using Java programming language.

Course Outline

- Chapter 1
  - J2EE Overview
  - Ecommerce Environment
  - Development Paths
  - N-Tier Architecture Approach
  - Containers
  - Roll of a Browser
  - 3 Implementations of Java Language
  - J2EE Extensions API
  - J2EE Architecture
  - Java Database Connectivity "JDBC"
  - J2EE Packaging
  - Web.xml File
  - Chapter 1 Summary
- Chapter 2
  - Java Servlets
  - Types of Java Programs
  - Characteristics of Java Servlets
  - Illustrating Servlet Processing
  - Advantages of Java Servlets
  - Servlet Class Hierarchy
Servlet Lifecycle
Components of an HTTP Server
Request & Response Objects
Demo - Building a Servlet
Role of an HTML Form
ACTION & METHOD Parameter
HTML FORM Source & Sample
Demo - Servlet Interaction
What is HTTP Processing?
Demo - Extracting Information
Java Servlet API
Servlet Request Handling
Request Methods for Input Data
Chapter 2 Summary
Chapter 3
J2EE Applications
Web Application Structure
Servlet Tags
Demo - Structure of J2EE Projects
Chapter 3 Summary
Chapter 4
Session Management
Session Support
Creating a Session Object
HttpSession Methods
Demo - Sessions
Session Invalidation
Illustrating Request Dispatcher
Application Performance
Persistent Sessions
Chapter 4 Summary
Chapter 5
JavaBeans
Illustrating JavaBeans
Rules of JavaClasses
Visual Logic Beans
Demo - Building a JavaBean Class
Servlet/JSP Model
Demo - Inserting a JavaBean
Chapter 5 Summary
Chapter 6
JavaServer Pages
JSP Document Components
Approach: Advantages & Disadvantages
Server-Side Scripting
JSP Translation
JSP Forwarding
Demo - Creating a JSP Document
JSP Components
JSP Implicit Objects
include and taglib Directive
JSP Expression