



SERVLET, JSP AND EJB PROGRAMMING IN WEBLOGIC SERVER V8.1 AND JBUILDER 9

Course Duration: 5 Days

Course Overview: This course teaches the development of J2EE-based Web applications in the BEA WebLogic Server 8.1 environment.

LEARNING OBJECTIVES

- At the completion of this course, the student will be able to:
- Understand J2EE-based Web application architecture and development
- Understand Web application development in the BEA WebLogic Server environment
- Setup the WebLogic application development environment
- Develop WebLogic applications using JBuilder and/or your favorite text editor
- Deploy WebLogic applications

Topics Covered

- J2EE-based Web applications
- Web application server and BEA WebLogic Server 7.0
- Set up of the VisualCafé and WebLogic application development environment
- Servlet and JSP programming with JBuilder
- EJB programming (Session Beans, Entity Beans and Message-Driven Beans)
- WebLogic application debug and deployment

Who Should Attend: Web application designers and programmers who are interested in learning Java Web application development in the WebLogic environment.

Prerequisites:

- A good understanding of Web technologies and server-side programming for dynamic Web content
- A good understanding of core Java syntax
- A good understanding of OO concepts

COURSE OUTLINE

Overview of Web Applications

- J2EE based Web Application architecture
- Application server Functionality
- WebLogic Platform Introduction

JBuilder Application Development Environment

- Tools for WebLogic Applications
- JBuilder features
- JBuilder UML Browser
- Configuring WebLogic in JBuilder

Servlet Programming

- Servlet Overview
- HTTP Servlet API
- Servlet Life Cycle
- Programming with MVC model
- JDBC and Database Connection Pooling
- Session tracking
- Integrating Servlet and JSP
- Examples
- Using Jbuilder to create servlets

JSP Programming

- JSP Overview
- JSP Directive
- JSP Expressions
- JSP Scriptlets
- JSP Declarations
- Using JavaBeans with JSP
- Examples
- Using Jbuilder to create JSP's

Deploy Web Application (Servlets and JSP) inside WebLogic Application Server

- Architecture of WebLogic Server Administration
- Using WebLogic Administration Console to deploy Servlets and JSPs of Web Applications

JMS Programming

- JMS Overview
- Develop JMS clients
- WebLogic JMS Service
- Samples

Enterprise JavaBeans Programming - Overview

- EJB Fundamentals
- Overview of EJB Container and EJB Server Responsibilities
- Overview of Entity EJB and Session EJB
- Overview of EJB deployment

Enterprise JavaBeans Programming - Session Bean

- Session Bean Contexts and Lifecycle
- Writing Stateless Session Beans
- Writing Stateful Beans
- Examples
- Using JBuilder EJB Development Environment

Enterprise JavaBeans Programming - Entity Bean

- Entity Bean Contexts and Lifecycle
- Writing Container-Managed Entity Beans
- Writing Bean-Managed Entity Beans
- Examples
- Using JBuilder EJB Development Environment

Message-Driven Bean

- Message-Driven Bean Overview
- MDB vs. Session/Entity Beans
- MDB implementation
- Samples

Enterprise JavaBeans Programming - Advanced

- Using Session Beans as the clients of entity beans
- Using Servlets as EJB clients
- CMP Custom Finder
- EJB QL
- Using Transaction
- Writing Bean-Managed Entity Beans
- Examples
- Local Interface
- Using JBuilder EJB Development Environment

Deploy EJBs into WebLogic Application Server

- EJB Deployment Jar file
- Creating EJB Deployment Jar file with JBuilder
- Deploying EJBs into WebLogic application Server 7.0