



Java Server Pages JSP Course 36 Contact Hours

Course Outline

Introduction
Who is this book for?
What's covered in this book?
What you need to use this book?
Conventions

Unit 1: Introducing Java Server Pages

The Java2 Enterprise Edition
JSP
How does JSP does its stuff
Comparison with existing technologies
Future of the Platform
Summary

Unit 2: The Basics

What do JSP contains?
JSP Life Cycle
Directives
Scripting Elements and Implicit Objects
Summary

Unit3: JSP Directives

Directive Basics
The page Directive
The taglib Directive
The include Directive
Summary

Unit 4: JSP Standard Actions

JSP Standard Actions Are Built-in Tags
Actions for Working with JavaBeans
Including JSP Output via <jsp:include<
Transferring Control between JSPs
Specifying Parameters for Other Actions
Summary



Unit 5: Beneath JSP

Web Application Server Architecture
Important Servlet API Features
Session tracking
Form data parsing
Summary

Unit 6: JSP and Java Beans

Introduction
Java Beans
Java Beans and JDBC
Creating Sample Application
Summary

Unit 7: JSP Sessions

Persistent Connections
Working with Cookies and JAVA
Sessions in Action
Sessions, HTTPS and JSP
Summary

Unit 8: Error Handling with JSP

Types of Errors and Exceptions
JSP Specific Exception Classes
An Example Web Application
Summary

Unit 9: Java Database Connectivity and Connection Pooling

Relational Database Management Systems
Alien Object Model
Why all the Driver Types?
How JSP and JDBC fit together
The Bigger J2EE Picture
Coding a simple JSP using JDBC
More Advanced JDBC
Multiple Users and the Need for the Connection Pooling
Summary

Unit 10: JSP Tag Libraries and JSTL

The Need for a Tag Extension Mechanism
The Simplest tag
JSP Standard Tag Library





Resources
Summary

Unit 11: Debugging JSP

Why Debugging JSP is so Hard
Different Types of Errors
Debugging Techniques
Future Directions
Summary

Unit 12: JSP Architecture

Code Factoring and Role Separation
Architectures
The Page-Centric Approach
The Dispatcher Approach
Servlets versus JSPs
Summary

Unit 13: JSPs and Servlets

A JSP is a Servlet
JSP Compilation
Summary

Unit 14: Java Server Faces

Configuring a JSF Project
Getting Started with JSF
JSF Lifecycle
Validating Data
Converting Data
Handling Events with Listeners
Summary

Unit 15: Case Study 1: Publishing Data to the Web

Overview
Selected Technologies
Database
JSP Pages
Java Source Code
Summary



Unit 16: Case Study 2: Implementing a Membership Based E-Commerce Application

Definition of Business Problem

Business Login

Defining Object Model

Selected Technologies

Putting it All together

Summary

Appendix

