

J0062 - Java for Web Developers Workshop + Struts

Course Objectives

This 5 day workshop will teach you about the capabilities of servlets, their advantages over CGI, the Servlet architecture, JDBC, session management and security.

You will learn about JSP syntax, deployment, and application models, how to use Java as a scripting language, and how to build robust and capable web applications using Servlets, JSPs, JavaBeans and the use of Apache Struts as a web framework.

Students will leave this course armed with the skills they require to understand server side Java, develop Servlets to process HTML forms and generate dynamic content, and understand and learn how to create JSPs.

Developers will also learn to:

- Leverage many of the most popular open source tools to accelerate web development
- Allow Servlets to cooperate and share data
- Store and process Session Information
- Deal with concurrency issues
- Generate dynamic content from a data model
- Access a database from a web application using JDBC
- Implement Security
- Test web applications

Who Should Attend	Prerequisites	Duration
Java Programmers Java Architects	HTML and Web Knowledge Java Programming J2EE Overview or Java2 Enterprise Edition	5 Days

Course Contents

Web Architecture and Fundamentals

HTTP servlets
HTTP requests
HTML basics
The Java web container

Web Application Architecture

View patterns
The MVC architecture
Layering an application

HTTP Servlets

Servlets
Writing a basic HTTP servlet
Form processing
Controlling client behaviour
Sessions and cookies
Understanding scope

JavaServer Pages

Introduction to JSP
Basic JSP syntax
Implicit objects
Actions and JavaBeans
Accessing the model

Web Applications

Understanding web applications
Configuring web applications (web.xml in depth)
Overview of security
Form based security
Basic authentications
Programmatic security

Custom Tags

Introduction to custom tags
An example: DisplayTag
Developing simple custom tags
Developing advanced custom tags
Tag library listeners and validators
An overview of JSTL

The Struts Framework

The Struts ActionServlet
Actions
ActionForms
Understanding Struts config
Validation
Struts tag libraries
Dynamic forms
Internationalization
Error handling
Struts plugins
Tiles
The Struts console
Deployment of a Struts application.
Alternatives to Struts

Tools for Web Application Development

The Eclipse IDE
The Tomcat web container
Oracle's OC4J web container