



Apache Struts Programming

- Description:** This class introduces the student to Model-View-Controller architectures using the Apache Struts version 1.1 framework.
- Audience:** Experienced J2EE developers that wish to learn how to use the Struts framework to create object-oriented, maintainable Web applications.
- Prerequisites:** Attendance in the Descriptor Systems JSP and Servlet classes or extensive prior programming experience with servlets and JavaServer Pages is required.
- Length:** 4 days
- Format:** Lecture with hands-on lab exercises. Choice of Apache Tomcat 5.x or IBM WSAD for labs.

Topics Covered:

Chapter 0: Introduction to the Workshop

Chapter 1: J2EE Review

- HTTP and HTML
- JavaBeans
- Servlets
- JSPs
- Bean Scopes

Chapter 2: MVC Review

- MVC Architecture Review
- Forwarding Requests
- Redirecting Requests
- Using Hidden Form Fields

Chapter 3: Introduction to Struts

- Struts Overview
- Actions and ActionForms
- Struts-config.xml
- Deploying a Simple Struts Application

Chapter 4: Creating the View

- Struts HTML Tags
- JSTL
- Dynamic ActionForms

Chapter 5: Validation

- What is Validation?
- Validation Scenarios
- Client-Side vs Server-Side Validation
- Using the Struts Validation Framework

Chapter 6: Creating the Model

- Review of Request, Session and Application Scopes
- Forwarding vs Redirecting Review
- Separating Business Logic from User-Interface

Chapter 7: Exception Handling and Global Forwarding

- Using Declarative Exception Handling
- Defining Global Forwards

Chapter 8: Internationalization

- ISO Country Codes
- Resource Bundles
- Struts and JSTL I18N Tags
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Chapter 9: Introduction to Tiles

- Defining Common Layouts
- Assembling Tiles

Chapter 10: Struts and J2EE Security

- Declarative Exception Handling
- Configuring Roles and Users

Chapter 11: Advanced Struts Topics

- Modules
- Using DispatchAction