Mastering Struts 1.x Developer's Workshop

Course Summary

Description

Created in collaboration with several leading J2EE and Struts authors and industry experts, this course will provide students with the skills required to design and build scalable, secure, maintainable web applications - leveraging our team's extensive experience in the delivery of scalable enterprise applications with complex web interfaces based on J2EE technologies. This course extends that discussion to cover a preview of Struts 2.0 and how it relates to current Struts applications.

Objectives
At the end of this course, students will be able to:

- Understand the problems with vanilla servlets/JSP, and the motivation for Struts
- Understand MVC and the Struts architecture Understand the Struts controller, Struts views, and Struts resource bundles
- Create & configure applications using Struts
- Define views, actions, and FormBeans
- Use Struts for form processing
- Use ActionMappings

- Handle errors and debug Struts applications
- Utilize Struts validation framework
- Use the Bean, Logic, and HTML Custom Tag Libraries
- Use the flow-of-control custom tags
- Preview changes in Struts 2.0 and how they relate to current Struts applications for each topic and lesson

Topics

- Getting Started with Struts
- Your First Struts Application
- Mapping the Model to the View
- Uploading Files and I18n

- Putting It All Together
- Advanced Forms Management
- Working with the Tiles Custom Library
- Best Practices

Audience

This is an intermediate level Struts training course, designed for experienced J2EE developers that need to further extend their skills in web development and Struts.

Prerequisites

Students should have an extensive working knowledge in developing J2EE applications.

Duration

Five days

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Course Outline

I. Getting Started with Struts
A. Jakarta Struts Project
B. MVC and Struts
C. Review Servlets, JSP and Web Applications
D. Struts Controller, Views and Resources
E. Struts Architecture

II. Your First Struts Application
A. Configuring Struts applications
B. Input JSP
C. Defining Actions
D. Defining Action Forms
E. Defining FormBeans
F. Action Mappings

III. Mapping the Model to the View
A. Review using Custom Tags
B. Introducing Struts Tags
C. Defining beans into the model
D. Working with headers
E. Working with Beans
F. Using Logic Tags;
G. Using HTML Tags
H. Handling message resources
I. Working with HTML forms and form beans
J. Iterating over lists and sublists
K. Conditionally including parts of your JSP
L. Using JSTL in place of the Struts Custom Tags

IV. Uploading Files and I18n
A. Locales
B. PropertyResourceBundles
C. Formatting Messages
D. Message Resources
E. Internationalization

V. Putting It All Together
A. Create the Application
B. Forward Action
C. Searching
D. Prepopulating Forms
E. Validating forms

F. Showing and Editing Error Massages
G. Handling Exceptions
H. FormBeans vs. Value Objects
I. Add/Edit/Delete Listing

VI. Advanced Forms Management
A. Working with DynaActionForms
B. Struts Validator : Email, mask, range, length, date and credit card validation
C. Creating Validation Rules
D. Validation.xml
E. Use the Correct Form Bean
F. Put it together: Add into the Project

VII. Working with the Tiles Custom Library
A. Defining templates
B. Using put and insert
C. Advanced tile features (optional lesson)

VIII. Best Practices
A. Best Practices
B. What's New in Struts 2.0?