

J2EE Struts 2 Programming

Course Summary

Description

This class introduces the student to Model-View-Controller architectures using the Apache Struts version 2.0 frameworks.

Topics

- J2EE Overview
- MVC Review
- Introduction to Struts 2
- Working with Struts 2 Actions
- Interceptors and Workflow
- Type Conversion
- Struts 2 Tag Libraries
- Results in Detail
- Validation Framework
- Internationalization
- Struts 2 Plug-ins

Audience

This course is designed for experienced J2EE developers that wish to learn how to use the Struts 2 framework to create object-oriented, maintainable Web applications.

Prerequisites

Students should attend JSP and Servlet classes or have extensive prior programming experience with Servlets and JavaServer Pages. Experience with Struts 1, although helpful, is not required.

Duration

Five days

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Course Outline

I.J2EE Review

- A.HTTP and HTML
- B.JavaBeans
- C.Servlets
- D.JSPs
- E.Bean Scopes

II.MVC Review

- A.MVC Architecture Review
- B.Forwarding Requests
- C.Redirecting Requests
- D.Using Hidden Form Fields

III.Introduction to Struts 2

- A.Struts 2 Overview
- B.Actions
- C.struts.xml
- D.Hello World Application

IV. Working with Struts 2 Actions

- A.Packaging actions
- B.Implementing actions
- C.Transferring data into objects

V. Interceptors and Workflow

- A.Why intercept requests?
- B.Built-in Struts 2 interceptors
- C.Writing your own interceptors

VI.Type Conversion

- A.Overview of common type conversions
- B.Built-in type converters
- C.Customizing type conversion

VII.Struts 2 Tag Libraries

- A.Overview of Struts 2 tags
- B.Data tags
- C.Control tags
- D.OGNL expression language

VIII.Results in Detail

- A.Life after the action
- B.Commonly used result types
- C.JSP alternatives

IX.Validation Framework

- A.Overview of the validation framework
- B.Writing actions for validations
- C.Writing custom validators

X.Internationalization

- A. Struts 2 i18n demo
- B.Overriding default locale

XI.Struts 2 Plug-ins

- A.Plug-in overview
- B.Common plug-ins
- C.Internal component system
- D.Breadcrumb plug-in example