

Implementing Struts 2 and advanced features in Project Scenarios

Workshop Details:

Duration :	2 Days
Objectives and Take away :	<p>Understanding and hands-on on topics encountered in real life problems commonly faced by developers and how to address them with best practices like Security, i18n, multipart and Ajax support, custom interceptors, integrations with Tiles, Spring, Hibernate, REST, Java Mail etc.</p> <p>Take away: Project level acquaintance with best practices, design patterns, integration, security etc.</p>
Participants' Entry Profile :	<p>Experienced Java programmers who require the skills to develop Web Based applications using the Struts 2 framework.</p> <p>Programming experience with Java is essential. Knowledge of internet technologies helpful (e.g. JSP, Servlets, HTML)</p>
Training Methodology :	<p>The workshop will follow Synergetics methodology of</p> <p>Concept Visualization Active Experimentation Application Development.</p> <p>The workshop will be 100% Hands-On with each participant having access to system during the session</p>

Setup Requirements

Hardware and Software Requirements :	<p>Participant's as well as Trainer's Machine are required to have :</p> <p>Hardware</p> <ul style="list-style-type: none"> Intel Core i3 2.2 GHz 80 GB HDD LCD Color Monitor 2 GB RAM LAN Connectivity <p>Software</p> <ul style="list-style-type: none"> Windows XP or 7 Internet Explorer 8 or above/Chrome/Firefox Java SDK 1.7.x Tomcat 7.0/GlassFish 3.2.x/JBoss 7+ Oracle 10g/11g/Derby/MS SQL 2008 onwards JDBC driver for database being provided Eclipse J2EE 4.0 onwards (Must match with bit architecture of machine) J2EE Documentation MS Office 2007 onwards <p>Following Jars/dependencies are needed...</p> <ul style="list-style-type: none"> JDBC Driver for Oracle (ojdbc6.jar) jackson-databind, JSTL and JUnit Spring Framework 4.0 (All Jars) Spring web and web-mvc(All Jars) <ul style="list-style-type: none"> • The installable must match in bits architecture of the machine. • A shared disk-space among participants and trainer for trainer to share training stuff with participants. • Internet connection to fetch maven dependencies .
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Training Lab Requirements:

Whiteboard 6 feet by 4 feet (minimum)
Whiteboard markers – Red, Blue, Green, Black
Video Projector (1024 X 768 resolutions)

Pre-requisite for training

A skill-set equivalent to Synergetics-Struts 2.0- Web Application Development(L1_03_Struts2)

- Discover the Struts2 Architecture and understand architecture goals
- Develop your first Struts2 Application
- Interceptors, their purpose, important interceptors in API and custom interceptors
- Understand OGNL & Value Stack and how to use them
- Discover the robust and flexible Struts 2 Validation Framework
- Implementing Internationalization in your struts2 application
- Implementing Struts 2 using best practices.

Course Content

Day 1	<ul style="list-style-type: none"> ➤ Module 1: Struts 2 Action <ul style="list-style-type: none"> ▪ Advanced action usage ▪ Dynamic method invocation ▪ Using tokens to prevent duplicate form submits ▪ Displaying wait pages automatically ▪ A single action for CRUD operations ➤ Module 2: Custom Interceptors <ul style="list-style-type: none"> ▪ Customizing request processing with pre-package interceptor stack ▪ Implementing custom interceptors ▪ Upload file using the inbuilt FileUploadInterceptor in struts ➤ Module 3: Using AJAX in Struts <ul style="list-style-type: none"> ▪ Ajax Support in Struts2 ▪ Using AJAX Tags ▪ Using AJAX Validation ▪ AutoCompleter Example ➤ Module 4: Spring Security In Struts <ul style="list-style-type: none"> ▪ Using Spring Plugin ▪ Configuring Listener ▪ Registering Spring Bean ▪ Configuring the Struts.xml ▪ Demo ➤ Module 5: Themes and Template <ul style="list-style-type: none"> ▪ Miniature architecture of struts themes and templates ▪ Using inbuild Themes ▪ Customizing Themes ➤ Module 6: Internationalization <ul style="list-style-type: none"> ▪ Understanding internationalization ▪ The Struts 2 framework and Java i18n ▪ A Struts 2 i18n demo ▪ Struts 2 i18n: the details
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	<ul style="list-style-type: none">▪ Overriding the framework's default locale determination
Day 2	<ul style="list-style-type: none">➤ Module 7: Integrating with Tiles<ul style="list-style-type: none">▪ Overview of Tiles▪ Configuring Tiles in the Deployment Descriptor▪ Configuring the Strust.xml▪ Demo➤ Module 8: Integrating with Spring<ul style="list-style-type: none">▪ Why integrate Spring in Struts2 application▪ Configuring the deployment descriptor▪ Configuring beans in spring.xml file▪ Demo➤ Module 9: Integrating with Hibernate<ul style="list-style-type: none">▪ Basic DataSource Configuration▪ Hibernate Configuration from spring▪ Access Hibenate.cfg.xml from spring configuration file▪ Using HibernateTemplate▪ Injecting HibernateTemplate in DAO➤ Module 10: Integration with Rest & Mailing<ul style="list-style-type: none">▪ REST Web Service Integration▪ Working with XML & JSON▪ Sending Mail➤ Module 11: Advance Best Practices<ul style="list-style-type: none">▪ Best Practices in struts application