

## Struts Online Training Course Content

### Faculty: Real time and certified

(Includes theoretical as well as practical sessions)

1. Introduction
  - a. Overview of Web Applications
  - b. HTTP protocol
  - c. Java Servlet Specification
  - d. Web Application Framework
  - e. MVC1 Architecture
  - f. MVC2 – Architecture
  - g. Struts 2 Architecture
  - h. Page Flow in Struts 2
  - i. Differences between Struts 1 and Struts2
2. Creating Application in Struts2
  - a. Setting Struts 2 Environment
    - i. IDE
    - ii. Server Configuration
    - iii. Database Configuration
    - iv. Directory Structure
  - b. Developing First application in Struts2
    - i. Creating JSP Pages
    - ii. Creating Action Classes
    - iii. Configuring Actions in struts.xml
    - iv. Configuring Struts 2 in web.xml
    - v. Deploying Struts2 application
    - vi. Running Struts2 Application
3. Creating Actions in Struts 2
  - a. ActionSupport class
  - b. Action Interface
  - c. Action as POJO
  - d. Model Driven Action
  - e. Action Context class
4. Dependency Injection and Inversion of Control
  - a. Struts2 Aware Interfaces
  - b. ApplicationAware
  - c. CookiesAware
  - d. ParameterAware
  - e. RequestAware

- f. ServletRequestAware
- g. ServletResponseAware
- h. SessionAware
- 5. Interceptors in Struts2
  - a. Understanding Interceptors
  - b. Configuring Interceptors
  - c. Implementing Interceptors in Struts2
    - i. Alias Interceptor
    - ii. Exception Interceptor
    - iii. Prepare Interceptor
    - iv. Debugging Interceptor
    - v. Model-driven Interceptor
    - vi. Params Interceptor
    - vii. Conversion error Interceptor
    - viii. Workflow Interceptor
    - ix. Servlet-Config Interceptor
    - x. Scoped Model Driven Interceptor
    - xi. Validation
    - xii. User Defined Interceptor
- 6. Tags in Struts 2
  - a. Generic Tags
    - i. Control Tags
    - ii. Data Tags
  - b. UI Tags
    - i. Form Tags
  - c. Non-UI Tags
- 7. Performing Validations in Struts2
  - a. Conversion Validator
  - b. Date validator
  - c. Double validator
  - d. Email validator
  - e. Expression validator
  - f. Int validator
  - g. Required validator
  - h. requiredString validator
  - i. Stringlength validator
  - j. url validator
- 8. Controlling Results
  - a. System Defined
  - b. Chain Result
  - c. Dispatcher Result
  - d. FreeMarker Result
  - e. Redirect Result

- f. Redirect Action Result
- g. Stream Result
- h. Velocity Result
- i. XSL Result
- j. PlainText Result
- k. Creating custom Result
- 9. Object-Graph Navigation Language (OGNL)
- 10. Internationalization/Localization
- 11. Exception
  - a. Action based Exceptions
  - b. Global Exceptions

***Server***

- Tomcat
- Weblogic

***Database***

- Oracle

Smart Mind's