

Jakarta Struts (version 1.2)
Contents of 3-days course

Day 1

1. Introduction to Struts and tag libraries.
 - a. Struts framework : Consolidation of plug-ins and custom tag libraries.
 - b. Understanding tags.
 - c. Using the Java Standard Tag Library (JSTL)
 - d. Understanding Expression Language (JSTL-EL)
 - e. Understanding tag development.
 - f. Developing custom tags (JCTL)
 - g. Simple custom tag.
 - h. Custom tag with attribute.
 - i. Custom tag with body.
 - j. Conditional processing of custom tag body.
 - k. The custom tag libraries in Struts Framework.

2. Struts Framework implements MVC.
 - a. Understanding web-application architecture.
 - b. Model 1 vs Model 2.
 - c. Struts implements MVC.
 - d. Components of Struts Framework: Controller, Action, ActionForms, Java Beans & Struts Configuration file

3. Using the Basic Framework.
 - a. Building a webapp ; implementing the base struts framework.
 - b. Defining views and ActionForms.
 - c. Defining Action class.
 - d. Creating Action mappings.

4. Enhancing the Basic application.
 - a. Using struts-bean taglib instead of a scriptlet.
 - b. Working with externalized messages : the properties file.
 - c. Validate() method in ActionForm.
 - d. ActionError & ActionErrors.
 - e. Error messages.
 - f. Displaying errors : using struts-html taglib.
 - g. Using Global forwards.

- h. Using struts-logic taglib for logical expressions and iterations.
- i. Internationalizing (i18n) our struts based web-application.
- j. Exception handling in struts.

Day 2

- 5. Building a create/read/update/delete (CRUD) web-application.
 - a. Configuring a data-source in Struts-config.xml
 - b. Using an Action without an ActionForm.
 - c. Prepopulating ActionForms for editing.
 - d. Action forwarding to Actions.
 - e. Using reset() and cancel.

- 6. The Validator Plug-in
 - a. Extending your ActionForm to ValidatorForm.
 - b. Working with Validation.xml
 - c. Specifying form-set, fields ,rules and error messages.
 - d. Working with constants.
 - e. Using rules : mask, email, date, minlength, maxlength, creditcard and required.
 - f. Using the field Equality rule.
 - g. Creating own custom rules.

- 7. The Tiles Plug-in
 - a. Defining a tiles-template.
 - b. Working with tiles taglib : using get, put and insert tags.
 - c. Defining jsp definitions.

- 8. Working with Multiple Modules
 - a. Splitting your web-application into modules.
 - b. Defining separate config files.
 - c. Including these definitions in struts-config.xml

Day 3

- 9. Advanced ActionForms
 - a. Using DynaActionForm
 - b. Using Validation framework with DynaValidatorForm

- 10. Advanced Action Classes
 - a. ForwardAction

- b. IncludeAction
 - c. DispatchAction
 - d. LookupDispatchAction
 - e. MappingDispatchAction
 - f. LocaleAction
 - g. SwitchAction
11. Cookie management with struts.
12. Letting users upload files : working with FormFile.
13. Using Multiple Resource Bundles : Multiple properties files.
14. Implementing struts in a legacy webapp .
- a. Replacing JSTL with equivalent struts tags.
 - b. Replacement Examples.
 - c. Understanding how JSTL is used to access Resource Bundle.
 - d. The fmt taglib
 - e. Multiple resource bundles with JSTL
15. Using struts-EL : Understanding problems with nested tags.
16. Extending the ActionServlet.
- a. Using a custom request processor.

NOTE : This is the contents of a 3-day course in Jakarta Struts.