Struts

By,

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Introduction

- Struts is a Standard for developing Open source Web Applications.
- Struts is based on MVC (Model View Controller) framework
- It is used to build Web applications using Servlet and JSP.
Features:

– Open Source
– Encourages good design practice and modeling.
– Flexible and extensible
– Large user community
– Feature-rich
– Easy to learn and use
Why Struts?

- **Struts Leverage ‘ready to use’ framework objects through xml configuration files**
- Struts has its own set of custom tag libraries.
- They also support utility classes.
- Integrates Well with J2EE.
- Good tablib Support.
- Works with existing web Apps.
- Unified Error Handling Programmatically and Declaratively.
Struts: MVC based Architecture

• The 3 major components in Struts are:
  o Controller: Handles requests and responses.
  o Java Server Pages or any other presentation technology (View).
  o Application Business Logic (Model).
Ctd..

- Struts is focused on Controller.
- ActionServlet, Action, ActionForm, Config.xml
- It is Model and View independent
Struts Architecture
Configuration File:

• Struts has a Configuration File “struts-config.xml” which contains “Action Mappings”.
• The action mappings also determines forwarding and navigation depending the outcome of the Actions.
Struts-config.xml

<struts-config>
<!..Form Beans Definition>
<form-beans>
<action>
  path = "/Login"
  type = ""
  name = "LoginForm"
  scope = "request"
  validate = "true"
  input = "/pages/Login.jsp"
<forward name = "success" path = "success.jsp"
<forward name = "failure" path = "failure.jsp"
</action>
</action-mappings>
</struts-config>
View

• JSP Pages
• Uses Stuts to populate the forms. They get the properties from the view state javabean that has been put in the request by the controller
Conclusion

• Struts is Very robust and real world tested.
• It is very powerful.
• Has lots of advanced features.
Refernces


• [2] Implementing MVC Architecture Using Struts