**Interview Questions on struts**

1. **What is Struts framework?**

Struts framework is an open-source framework for developing the web applications in Java EE, based on MVC architecture. It uses and extends the Java Servlet API. Struts is robust architecture and can be used for the development of application of any size. Struts framework makes it much easier to design scalable, reliable Web applications with Java

1. **What are the components of Struts?**

Struts components can be categorize into Model, View and Controller:

* **Model:** Components like business logic /business processes and data are the part of model.
* **View:** HTML, JSP are the view components.
* **Controller:** Action Servlet of Struts is part of Controller components which works as front controller to handle all the requests.

1. [**What are the core classes of struts?**](http://www.geekinterview.com/question_details/15302)

The core class of struts framework is   
a) ActionServlet  
b) Action  
c) ActionForward  
d) ActionMapping  
e) ActionErrors  
f) RequestProcessor  
g) ActionForm

1. **What are the various Struts tag libraries?**

The various Struts tag libraries are:

* HTML Tags
* Bean Tags
* Logic Tags
* Template Tags
* Nested Tags
* Tiles Tags

1. **What is Action Class?**

**The Action is part of the controller. The purpose of Action Class is to translate the HttpServletRequest to the business logic. To use the Action, we need to Subclass and overwrite the execute() method. The ActionServlet (commad) passes the parameterized class to Action Form using the execute() method. There should be no database interactions in the action. The action should receive the request, call business objects (which then handle database, or interface with J2EE, etc) and then determine where to go next.**

1. **What is ActionForm?  
    An ActionForm is a JavaBean that extends org.apache.struts.action.ActionForm. ActionForm maintains the session state for web application and the ActionForm object is automatically populated on the server side with data entered from a form on the client side.**
2. **What is the life cycle of ActionForm?**

The lifecycle of ActionForm invoked by the RequestProcessor is as follows:

* Retrieve or Create Form Bean associated with Action
* "Store" FormBean in appropriate scope (request or session)
* Reset the properties of the FormBean
* Populate the properties of the FormBean
* Validate the properties of the FormBean
* Pass FormBean to Action

1. **What is Struts Validator Framework?  
   Struts Framework provides the functionality to validate the form data. It can be use to validate the data on the users browser as well as on the server side. Struts Framework emits the java scripts and it can be used validate the form data on the client browser. Server side validation of form can be accomplished by sub classing your From Bean with DynaValidatorFormclass.**
2. **Give the Details of XML files used in Validator Framework?  
   The Validator Framework uses two XML configuration files validator-rules.xmland validation.xml. The validator-rules.xml defines the standard validation routines, these are reusable and used in validation.xml. to define the form specific validations. The validation.xml defines the validations applied to a form bean.**
3. **How you will enable front-end validation based on the xml in validation.xml?  
    The <html:javascript> tag to allow front-end validation based on the xml in validation.xml.**

**For example the code: <html:javascriptformName="logonForm" dynamicJavascript="true" staticJavascript="true" /> generates the client side java script for the form "logonForm" as defined in the validation.xml file. The <html:javascript> when added in the jsp file generates the client site validation script.**

1. **What is ActionMapping?**

Action mapping contains all the deployment information for a particular Action bean. This class is to determine where the results of the Action will be sent once its processing is complete.

1. **Can we have more than one struts-config.xml file for a single Struts application?**

Yes, we can have more than one struts-config.xml for a single Struts application.

1. **What is DispatchAction?**

The DispatchAction class is used to group related actions into one class. Using this class, you can have a method for each logical action compared than a single execute method. The DispatchAction dispatches to one of the logical actions represented by the methods. It picks a method to invoke based on an incoming request parameter. The value of the incoming parameter is the name of the method that the DispatchAction will invoke.

1. **What is LookupDispatchAction?**

The LookupDispatchAction is a subclass of DispatchAction. It does a reverse lookup on the resource bundle to get the key and then gets the method whose name is associated with the key into the Resource Bundle.

1. **Action Class is thread safe or not?Only one instance of action class or more?**

In strtus1.2 action class is not thread safe we have to handle it because only one instance action class serve all the requests where it was modified in **struts2**. For each request new object will be created no need to bother about thread safe.