**Practical no: 8**

**Problem Statement: Create a login module for the web application using struts framework.**

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Wt                  Practical 8

Title: Design and Devlop any web application using Structs framework.

Problem statement: create a login module for the web application using structs framework.

Software: Java, Tomcat 7, Struts API, Eclipse IDE.

Theory: The framework plays a vital role in industries for manageble and well designed application development as well as enterprise application development. Structs encourages application architectures based on the Model 2 approach. ORM remains for Object / Relational mapping It works by changing the information starting with one portrayal then onto the next.

* What is structs?
Structs is a framework that advances the utilization of the Model-View-Controller engineering for planning substantial scale applications. The most intense pact of the structs system is its help for making and preparing electronic structures. We will perceive from this functions later in this session.

* Struct tags.

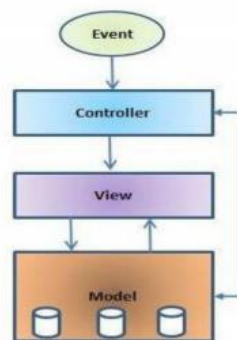| Attributes | Used for |
|---|---|
| Id | the name of a bean for temporary use by tag |
| name | the name of pre-existing bean for use with tag |
| property | the property of bean. |
| scope | the scope to search for the bean. |



**Figure.5: Basic MVC Architecture.**

* Creating Beans:
  They are created by Java code or tags.

* Other Bean tags: The struts framework provides other tags for dealing with issues.
  &lt;bean:cookie...&gt;          &lt;bean:header...&gt;
  &lt;bean:page...&gt;            &lt;bean:parameter...&gt;
  &lt;bean:resource...&gt;        &lt;bean:struts...&gt;

* Creating HTML forms: To get the clients data, a HTML shape is utilized. The information comparing to the client i/p is put away in an ActionFormClass. The follow. diagram depicts the use of structs for using forms.

  - &lt;html:base&gt; : Generates a &lt;base&gt; tag. This tag should be used in &lt;head&gt; tag.
  - &lt;html:button&gt;: Generates an &lt;input type="button"&gt;tag.
  - &lt;html:cancel&gt;: Generates &lt;input type="submit"&gt; tag.
  - &lt;html:form&gt;: Generates &lt;form&gt;
  - &lt;html:hidden&gt;: Generates &lt;input type:"hidden"&gt;

* ActionForm class.
  The purpose is to contain and provide validation of user-input data.

* Technology /Tool.
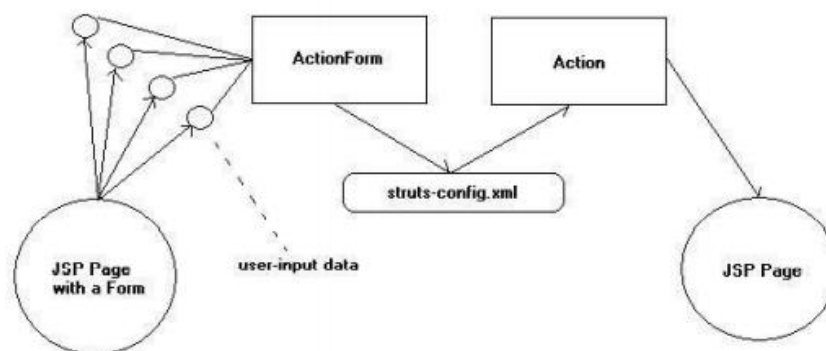  1) Eclipse IDE
  2) Apache Tomcat 7.0. or higher



Figure.6: Struts for Using Forms

```
package com.akurdi.action;
import com.opensymphony.xwork2.ActionSupport;
public class LoginAction extends ActionSupport {
private String username;
private String password;
public String execute() {
if(this.username == null || this.password == null)
{
return "error";
}
if (this.username.equals("admin")
&& this.password.equals("admin123"))
{ return "success"
} else {
addActionError(getText("error.login"));
return "error";
}
}
public String getUsername() {
return username;
}
public void setUsername(String username) {
this.username = username;
}
public String getPassword()
{
return password;
}
public void setPassword(String password) {
this.password = password;
}
}
```