

Assignment No: 08

* Title :-

Design & develop any web application using Struts Framework

* Objective :-

- 1) To impart the efficient & available client side & server side technologies
- 2) To implement the communication between computing nodes using client side & server side.

* Problem Statement :-

Create a login module for the web application using Struts framework

* Outcomes :-

- 1) Implement the effective client server technologies using Struts framework.
- 2) Solve the complex problem of development using MVC framework.

* Software & Hardware Requirement

Software Java 17 or Higher,
Apache Tomcat or higher.

* Theory :-

The framework plays a vital role in industries for manageable & well designed application development as well as enterprise application development. The core of the Struts framework is flexible control layer based on standard technologies like Java Servlet, Java Beans, Resource bundles & JMC as well as various Jakarta Commons packages. Struts encourages application architecture based on the model.

* Model - view Controller Architecture :-
- Model-view-controller is a way to avoid build application that promotes complete separation between business logic & presentation. It is not specific to web application. In Java or J2EE the view is the user interface, the screen that the end user interface, the screen that the end user of the application actually see & interacts with in a J2EE web application, views are JSP files.

* what is Struts :-

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Struts is a framework that advances the utilization of the Model - View - Controller engineering for planning substantial Scalable application. The structure incorporates an arrangement of custom label libraries & their related Java classes alongside different utility classes.

* **Struts Tags : Common Attributes :**
Almost all tags provided by the Struts framework use the following attributes id, name, property Scope

* **Creating HTML Tags :-**
Frequently data should be gathered from a client & handled without the capacity to gather client input, a web application would be futile, so as to get client data, a HTML Shape is utilized client information can originate from a few gadgets. For example, content fields content boxes, check takes care of pop means & radio buttons

* **Conclusion :-**

Hence, we have successfully tested the struts framework & tested the results.

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Assignment 8 : Create a login module for the web application using struts framework.

LoginForm.java

```
package com.example.javawebtutor.form;

import javax.servlet.http.HttpServletRequest;

import org.apache.struts.action.ActionForm;
import org.apache.struts.action.ActionMapping;

public class LoginForm extends ActionForm {

    private String userName = null;
    private String password = null;

    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;
    }
}
```

```
@Override
public void reset(ActionMapping mapping, HttpServletRequest request) {
    this.password = null;
}
```

LoginAction.java

```
package com.example.javawebtutor.action;
```

```
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
```

```
import org.apache.struts.action.Action; import
org.apache.struts.action.ActionForm; import
org.apache.struts.action.ActionForward; import
org.apache.struts.action.ActionMapping;
```

```
import com.example.javawebtutor.form.LoginForm;
```

```
public class LoginAction extends Action
{ @Override
    public ActionForward execute(ActionMapping mapping, ActionForm
        form, HttpServletRequest request, HttpServletResponse response)
        throws Exception {
        LoginForm loginForm = (LoginForm) form;

        if (loginForm.getUserName() == null || loginForm.getPassword() == null
            | !loginForm.getUserName().equalsIgnoreCase("Mukesh")
            | !loginForm.getPassword().equalsIgnoreCase("kumar")) {
            return
mapping.findForward("success"); } else
            return mapping.findForward("failure");
        }
}
```

Struts-config.xml

```
<?xml version="1.0" encoding="UTF-8"?  
> <!DOCTYPE struts-config PUBLIC  
"-//Apache Software Foundation//DTD Struts Configuration  
1.3//EN" "http://struts.apache.org/dtds/struts-config\_1\_3.dtd">  
  
<struts-config>  
  <form-beans>  
    <form-bean name="loginForm"  
type="com.example.javawebtutor.form.LoginForm"/>  
  </form-beans>  
  <action-mappings>  
    <action name="loginForm" path="/login"  
type="com.example.javawebtutor.action.LoginAction"  
scope="request" input="/login.jsp">  
      <forward name="failure" path="/login.jsp" redirect="true"/>  
      <forward name="success" path="/success.jsp" redirect="true"/>  
    </action>  
  </action-mappings>  
</struts-config>
```

Login.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"  
pageEncoding="ISO-8859-1"%>  
<%@ taglib uri="http://struts.apache.org/tags-html" prefix="html"%>  
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"  
"http://www.w3.org/TR/html4/loose.dtd"> <html>  
  
<head>  
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">  
<title>Login Example</title>  
</head>  
<body>  
  <html:form action="/login" focus="userName">
```

```
Username : <html:text property="userName" />
<br>
Password : <html:password property="password" /
> <br>
<html:submit value="login" />
</html:form>

</body>
</html>
```

Success.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01
Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">

<title>Successful Login Page</title>

</head>

<body>

    <h2>Welcome Boss</h2>

</body>

</html>
```

Index.jsp

```
<jsp:forward page="/login.jsp"></jsp:forward>
```

Login Example x

localhost:9999/LoginExampleStruts1/

Apps technical live tv Outlook Web App Google Structured D...

Username :

Password :

Successful Login Page x

localhost:9999/LoginExampleStruts1/success.jsp

Apps technical live tv Outlook Web App Google Structured D...

Do you want Google Chrome to save your password?

Welcome Boss