**Practical 5**

**Aim:**

**5.16:MVC in JSP**

Write following pages.

1. Index.html (as loingcontroll with one textbox for username and one password box for password, with a submit button) (as view)  
2.LoginServlet.java (as controller only)

3. LoginService.java (as Business Service)

4. Success.jsp (as view)  
  
Role of index.jsp is to take input from user and forward it to LoginServlet Servlet controller, LoginServlet Controller will ask LoginService Class which has a business service named **booleanauthenticateUser(String, String)**to validate the user. ifuserId is "admin" and password is "admin" then application will redirect to success.jsp with welcome <username> message, otherwise it will be redirected to login.jsp with an error message "invalid username and password".

**Program code:**

**login.html**

<html>

<head>

<title>**Login**</title>

<metacharset=**"UTF-8"**>

<metaname=**"viewport"**content=**"width=device-width, initial-scale=1.0"**>

</head>

<body>

<formaction=**"LoginServlet"**method=**"get"**>

<div>

<table>

<h3>**Enrollment no:130050131023**</h3>

<tr>

<td>

**Username:**

</td>

<td>

<inputtype=**"text"**name=**"uname"**/>

</td>

</tr>

<tr>

<td>

**Password:**

</td>

<td>

<inputtype=**"password"**name=**"pwd"**/>

</td>

</tr>

<tr>

<td></td>

<td>

<inputtype=**"Submit"**value=**"Login"**id=**"search"**/>

</td>

</tr>

</table>

</div>

</form>

</body>

**</html>**

**Loginhandler.java**

package action**;**

publicclassLoginHandler**{**

boolean authenticate**(**String name**,**Stringpwd**){**

**if(**name**.**equals**(**"admin"**)&&**pwd**.**equals**(**"admin"**)){**

**returntrue;**

**}**

**returnfalse;**

**}**

**}**

**LoginServlet.java**

package action**;**

**import**java**.**io**.**IOException**;**

**import**java**.**io**.**PrintWriter**;**

**import**javax**.**servlet**.**RequestDispatcher**;**

**import**javax**.**servlet**.**ServletException**;**

**import**javax**.**servlet**.**http**.**HttpServlet**;**

**import**javax**.**servlet**.**http**.**HttpServletRequest**;**

**import**javax**.**servlet**.**http**.**HttpServletResponse**;**

publicclassLoginServlet**extends**HttpServlet**{**

protectedvoiddoGet**(**HttpServletRequest request**,**HttpServletResponse response**)**

**throws**ServletException**,**IOException**{**

response**.**setContentType**(**"text/html;charset=UTF-8"**);**

PrintWriter out **=**response**.**getWriter**();**

String name**=**request**.**getParameter**(**"uname"**);**

String pwd**=**request**.**getParameter**(**"pwd"**);**

**try{**

LoginHandlerlh**=new**LoginHandler**();**

boolean a**=**lh**.**authenticate**(**name**,**pwd**);**

**if(**a**){**

response**.**sendRedirect**(**"Success.jsp"**);**

**}else{**

RequestDispatcherrd**=**request**.**getRequestDispatcher**(**"login.html"**);**

out**.**println**(**"<h1>Wrong info</h1>"**);**

rd**.**include**(**request**,**response**);**

**}**

**}catch(**Exception e**){}**

**finally{**

out**.**close**();**

**}**

**}**

**}**

**Success.jsp**

**<%@**page contentType="text/html" pageEncoding="UTF-8"**%>**

<!DOCTYPE html>

<html>

<head>

<metahttp-equiv=**"Content-Type"**content=**"text/html; charset=UTF-8"**>

<title>**Success**</title>

</head>

<body>

<h1>**Hello**</h1>

</body>

</html>

**Web.xml**

<?xmlversion=**"1.0"**encoding=**"UTF-8"**?>

<web-appversion=**"3.1"**xmlns=**"http://xmlns.jcp.org/xml/ns/javaee"**xmlns:xsi=**"http://www.w3.org/2001/XMLSchema-instance"**xsi:schemaLocation=**"http://xmlns.jcp.org/xml/ns/javaeehttp://xmlns.jcp.org/xml/ns/javaee/web-app\_3\_1.xsd"**>

<servlet>

<servlet-name>**LoginHandler**</servlet-name>

<servlet-class>**LoginHandler**</servlet-class>

</servlet>

<servlet>

<servlet-name>**LoginServlet**</servlet-name>

<servlet-class>**LoginServlet**</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>**LoginHandler**</servlet-name>

<url-pattern>**/LoginHandler**</url-pattern>

</servlet-mapping>

<servlet-mapping>

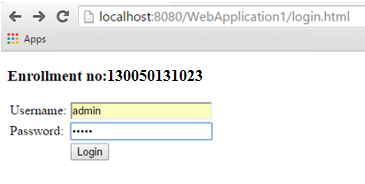
<servlet-name>**LoginServlet**</servlet-name>

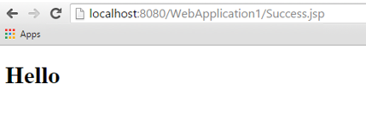
<url-pattern>**/LoginServlet**</url-pattern>

</servlet-mapping>

</web-app>

**Output:**

****

****