

VALIDATION OF USER LOGIN

Project objective:

Create a servlet-based web application that shows a login page and validates it. The correct values are hard-coded. On successful login, a dashboard page is shown. The dashboard will provide a link for logging out. Incorrect logins need to be handled by showing an error message page.

You must use the following:

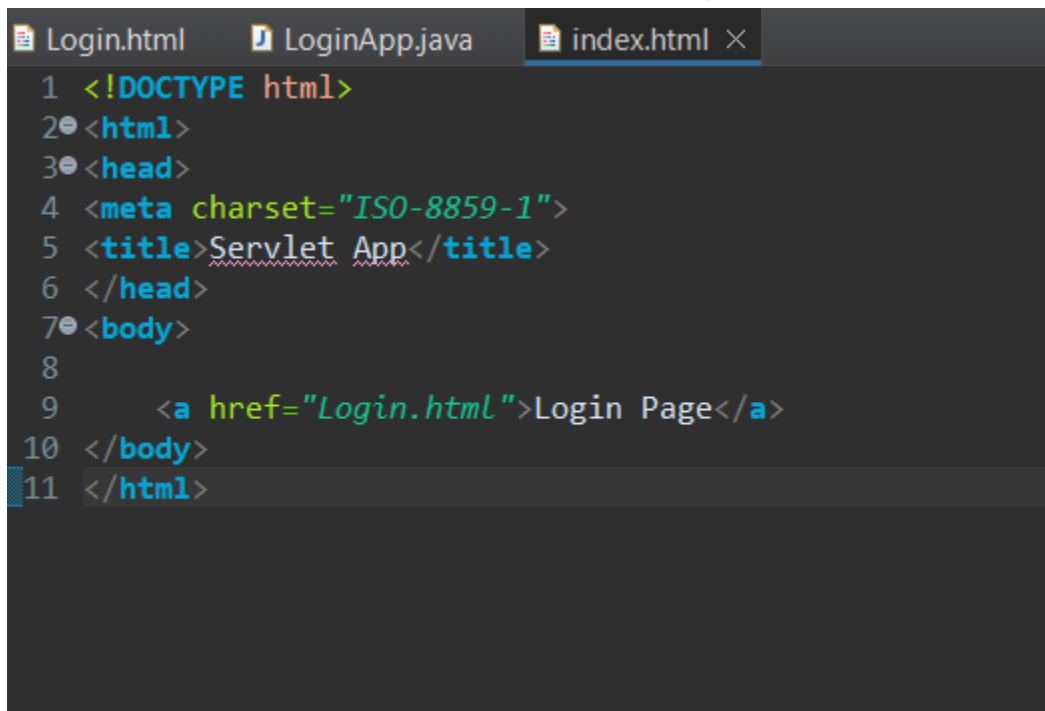
- Eclipse as the IDE
- Apache Tomcat as the web server
- HTML pages for the front end
- Servlets for backend processing

Following requirements should be met:

- Show a login form in HTML
- Handle invalid logins and show appropriate error messages using servlets
- Show the dashboard page using servlets
- Handle logouts using servlets
- Document the step-by-step process involved in completing this task

Demo:

- First we need to create a Dynamic Web project
- After that, create an index.html file and enter the following contents to that file:

A screenshot of an IDE window with three tabs: 'Login.html', 'LoginApp.java', and 'index.html'. The 'index.html' tab is active and shows the following HTML code:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <meta charset="ISO-8859-1">
5 <title>Servlet App</title>
6 </head>
7 <body>
8
9     <a href="Login.html">Login Page</a>
10 </body>
11 </html>
```

- Create another HTML file, name it as Login.html and enter the following contents:

```
Login.html x LoginApp.java index.html
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <meta charset="ISO-8859-1">
5 <title>User Login Page</title>
6 </head>
7 <body>
8
9 <h2> Login Page</h2>
10 <form action="LoginApp" method="post">
11 <label>Name</label>
12 <input type="text" name="uname"><br><br/>
13 <label>Password</label>
14 <input type="password" name="pass"><br><br/>
15 <input type="Submit" value="Submit">
16 <input type="Reset" value="Reset">
17 </body>
18 </html>
```

- Create a new Servlet, name it as LoginApp.java and enter the following contents:

```
javaEE - ServletApp/src/main/java/com/LoginApp.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Login.html LoginApp.java x index.html
import java.io.PrintWriter;

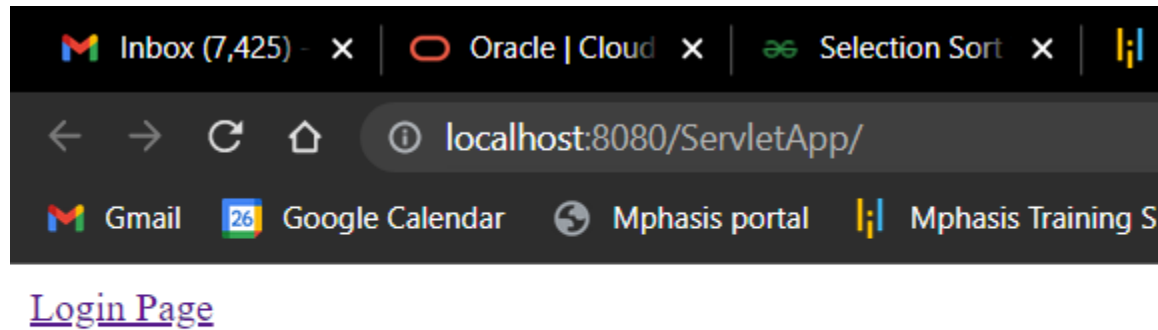
9
10 /**
11 * Servlet implementation class LoginApp
12 */
13 public class LoginApp extends HttpServlet {
14     private static final long serialVersionUID = 1L;
15
16     /**
17      * @see HttpServlet#HttpServlet()
18      */
19     public LoginApp() {
20         super();
21         // TODO Auto-generated constructor stub
22     }
23
24     /**
25      * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
26      */
27     protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
28         // TODO Auto-generated method stub
29         //response.getWriter().append("Served at: ").append(request.getContextPath());
30
31     }
32
33
34     /**
35      * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
36      */
37     protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
38         // TODO Auto-generated method stub
39         //doGet(request, response);
40         PrintWriter pw= response.getWriter();
41         String username=request.getParameter("uname");
42         String password=request.getParameter("pass");
43         if(username.equals("Saveri")&&password.equals("Saveri123")){
44             pw.println("Login done successfully");
45             pw.println("Welcome "+ username);
46         }
47         else {
48             pw.println("Login failed pls try again");
49         }
50     }
}
```

- Run your application by giving Ctrl+F11
 - Expand local host and choose your server

- Click next and finish
- Restart the server

The outputs are as follows:

1. Index.html output

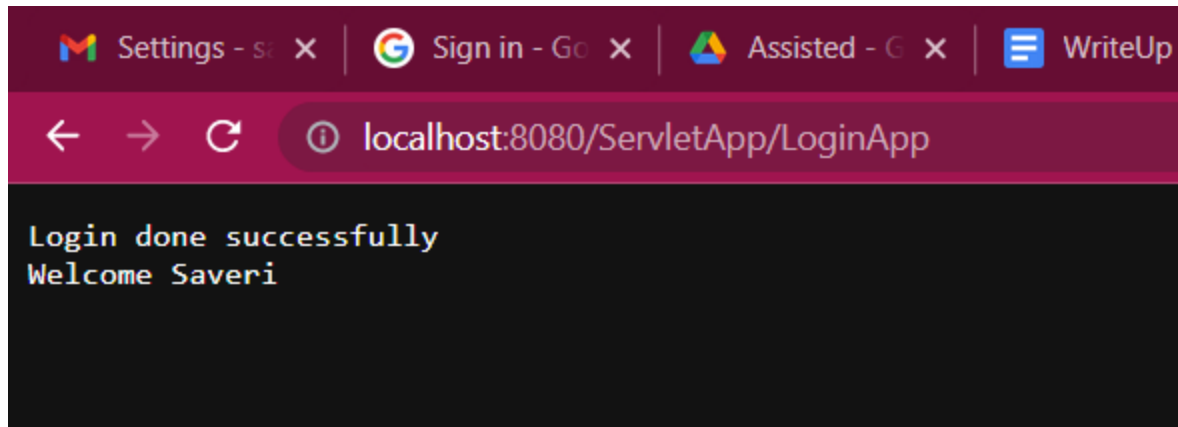


2. Login page

A screenshot of a web browser window. The address bar shows 'localhost:8080/ServletApp/Login.html'. The page content includes a heading 'Login Page' and a form with the following elements:

- A label 'Name' followed by a text input field.
- A label 'Password' followed by a text input field.
- Two buttons: 'Submit' and 'Reset'.

a. After successful login



b. After login fails

