**Github Link:- https://github.com/santhoshsai4517/Simplilearn\_Phase2\_1.23**

**Login page**

<!DOCTYPE html>

<html>

<head>

<title>Login</title>

</head>

<body>

<h2>Login</h2>

<form action=*"LoginServlet"* method=*"post"*>

Email: <input type=*"text"* name=*"email"* required><br>

Password: <input type=*"password"* name=*"password"* required><br>

<input type=*"submit"* value=*"Login"*>

</form>

</body>

</html>

**Login Servlet**

**import** java.io.IOException;

**import** javax.servlet.ServletException;

**import** javax.servlet.annotation.WebServlet;

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

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

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

**import** javax.servlet.http.HttpSession;

/\*\*

\* Servlet implementation class LoginServlet

\*/

@WebServlet("/LoginServlet")

**public** **class** LoginServlet **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

/\*\*

\* **@see** HttpServlet#HttpServlet()

\*/

**public** LoginServlet() {

**super**();

// **TODO** Auto-generated constructor stub

}

/\*\*

\* **@see** HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

**protected** **void** doGet(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

// **TODO** Auto-generated method stub

doPost(request,response);

}

/\*\*

\* **@see** HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

**protected** **void** doPost(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

// Hard-coded values for demonstration purposes

String validEmail = "user@example.com";

String validPassword = "password";

String email = request.getParameter("email");

String password = request.getParameter("password");

**if** (email != **null** && password != **null** &&email.equals(validEmail) && password.equals(validPassword)) {

// Successful login, redirect to dashboard

HttpSession session = request.getSession(**true**); // Create a new session or get the existing one

session.setAttribute("userEmail", email);

response.sendRedirect("DashboardServlet");

} **else** {

// Invalid login, show error message

response.sendRedirect("ErrorPage.html");

}

}

}

**Dashboard Servlet**

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** javax.servlet.ServletException;

**import** javax.servlet.annotation.WebServlet;

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

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

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

**import** javax.servlet.http.HttpSession;

/\*\*

\* Servlet implementation class DashboardServlet

\*/

@WebServlet("/DashboardServlet")

**public** **class** DashboardServlet **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

/\*\*

\* **@see** HttpServlet#HttpServlet()

\*/

**public** DashboardServlet() {

**super**();

// **TODO** Auto-generated constructor stub

}

/\*\*

\* **@see** HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

**protected** **void** doGet(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

// Display the dashboard page

HttpSession session = request.getSession(**false**); // Get the existing session or return null

**if** (session != **null** && session.getAttribute("userEmail") != **null**) {

// User is logged in, show the dashboard

response.setContentType("text/html");

// Prevent caching by setting HTTP headers

response.setHeader("Cache-Control", "no-cache, no-store, must-revalidate");

response.setHeader("Pragma", "no-cache");

response.setHeader("Expires", "0");

String email = (String) session.getAttribute("userEmail");

response.setContentType("text/html");

PrintWriter out = response.getWriter();

out.println("<html><head><title>Dashboard</title></head><body>");

out.println("<h2>Welcome to the Dashboard "+ email + "</h2>");

out.println("<a href='LogoutServlet'>Logout</a>");

out.println("</body></html>");

} **else** {

// User is not logged in, redirect to the login page

response.sendRedirect("index.html");

}

}

/\*\*

\* **@see** HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

**protected** **void** doPost(HttpServletRequest request, HttpServletResponse response) **throws** ServletException, IOException {

// **TODO** Auto-generated method stub

doGet(request, response);

}

}

**Logout Servlet**

import java.io.IOException;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.servlet.http.HttpSession;

/\*\*

\* Servlet implementation class LogoutServlet

\*/

@WebServlet("/LogoutServlet")

public class LogoutServlet extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public LogoutServlet() {

super();

// TODO Auto-generated constructor stub

}

/\*\*

\* @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

// Handle logout action

// You can invalidate the session and redirect to the login page

HttpSession session = request.getSession(false);

if (session != null) {

session.invalidate(); // Invalidate the session

}

response.sendRedirect("index.html");

}

/\*\*

\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

// TODO Auto-generated method stub

doGet(request, response);

}

}

**Error Page**

<!DOCTYPE html>

<html>

<head>

<title>Error</title>

</head>

<body>

<h2>Error</h2>

<p>Invalid login credentials. Please try again.</p>

<a href=*"index.html"*>Back to Login</a>

</body>

</html>

**Web.xml**

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<web-app xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"* xmlns=*"http://xmlns.jcp.org/xml/ns/javaee"* xsi:schemaLocation=*"http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-app\_4\_0.xsd"* id=*"WebApp\_ID"* version=*"4.0"*>

<display-name>UserInputValidation</display-name>

<welcome-file-list>

<welcome-file>index.html</welcome-file>

<welcome-file>index.jsp</welcome-file>

<welcome-file>index.htm</welcome-file>

<welcome-file>default.html</welcome-file>

<welcome-file>default.jsp</welcome-file>

<welcome-file>default.htm</welcome-file>

</welcome-file-list>

<servlet>

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

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

</servlet>

<servlet>

<servlet-name>DashboardServlet</servlet-name>

<servlet-class>DashboardServlet</servlet-class>

</servlet>

<servlet>

<servlet-name>LogoutServlet</servlet-name>

<servlet-class>LogoutServlet</servlet-class>

</servlet>

<servlet-mapping>

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

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

</servlet-mapping>

<servlet-mapping>

<servlet-name>DashboardServlet</servlet-name>

<url-pattern>/DashboardServlet</url-pattern>

</servlet-mapping>

<servlet-mapping>

<servlet-name>LogoutServlet</servlet-name>

<url-pattern>/LogoutServlet</url-pattern>

</servlet-mapping>

<error-page>

<error-code>404</error-code>

<location>/ErrorPage.html</location>

</error-page>

</web-app>