1. **Validation of the 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.

**Background of the problem statement:-**

As a part of developing an e-commerce web application, you have to prototype a login scenario for the user. There is no database involved here, so you have to use fixed values for login email id and password.

**Source Code:-**

**Dashboard.java**

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;

@WebServlet("/dashboard")

public class Dashboard extends HttpServlet {

private static final long serialVersionUID = 1L;

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

response.setContentType("text/html");

PrintWriter out = response.getWriter();

HttpSession session = request.getSession();

if(session.getAttribute("userName") != null && (session.getAttribute("userPass") != null)) {

out.println("<h2> Welcome " + session.getAttribute("userName"));

out.println("<br /> You are now Logged in </h2>");

out.println("<h3><a href = 'logout'>Logout</a></h3>");

}

else {

response.sendRedirect("index.html");

}

}

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

doGet(request, response);

}

}

***Login.java***

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.RequestDispatcher;

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;

@WebServlet("/login")

public class login extends HttpServlet {

private static final long serialVersionUID = 1L;

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

response.setContentType("text/html");

PrintWriter out = response.getWriter();

String username = request.getParameter("userName");

String userpassword = request.getParameter("userPass");

HttpSession theSession = request.getSession();

if(username.trim().equals("YugalTighare") && (userpassword.trim().equals("1998"))) {

theSession.setAttribute("userName", username );

theSession.setAttribute("userPass", userpassword);

response.sendRedirect("dashboard");

}

else {

out.println("<font color = 'red'>Invalid User Name </font>");

RequestDispatcher dispatcher = request.getRequestDispatcher("index.html");

dispatcher.include(request, response);

}

out.println("<a href = 'dashboard'>Next</a>");

}

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

doGet(request, response);

}

}

***Logout.java***

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;

@WebServlet("/logout")

public class logout extends HttpServlet {

private static final long serialVersionUID = 1L;

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

response.setContentType("text/html");

PrintWriter out = response.getWriter();

request.getSession().invalidate();

out.println("<h3> You are now Logged out <br /></h3>");

out.println("<a href = 'index.html'>Login again</a>");

}

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

doGet(request, response);

}

}

***Index.html***

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Validate User Login</title>

</head>

<body>

<h1 style = "text-align: *center*;">User Login</h1>

<hr />

<form action = *"login"*>

<fieldset>

<legend>User Login Page</legend>

<label>User Name:</label><br />

<input type = *"text"* name = *"userName"* placeholder = *"Enter User Name"* /><br /><br />

<label>Password:</label><br />

<input type = *"Password"* name = *"userPass"* placeholder = *"Enter User Password"* /><br /><br />

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

</fieldset>

</form>

</body>

</html>

***Web.xml***

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

<web-app xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"* xmlns=*"http://java.sun.com/xml/ns/javaee"* xsi:schemaLocation=*"http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-app\_3\_0.xsd"* id=*"WebApp\_ID"* version=*"3.0"*>

<display-name>Loginvalidation</display-name>

<welcome-file-list>

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

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

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

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

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

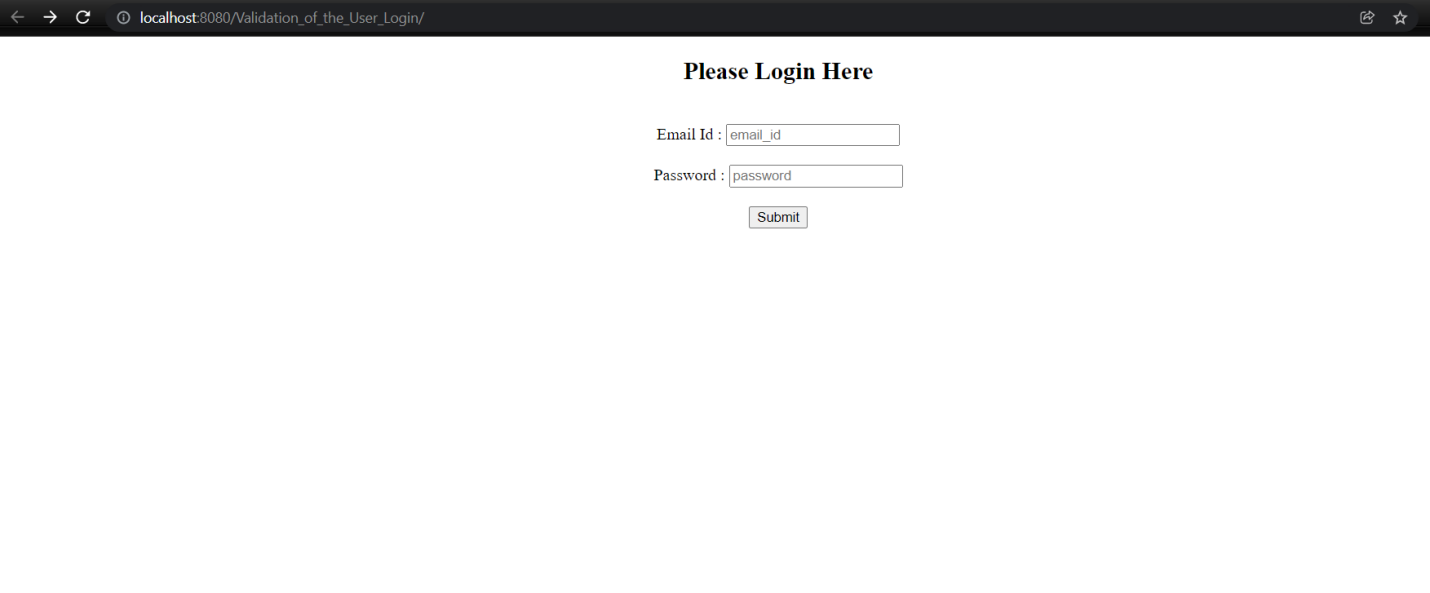
<welcome-file>default.jsp</welcome-file>

</welcome-file-list>

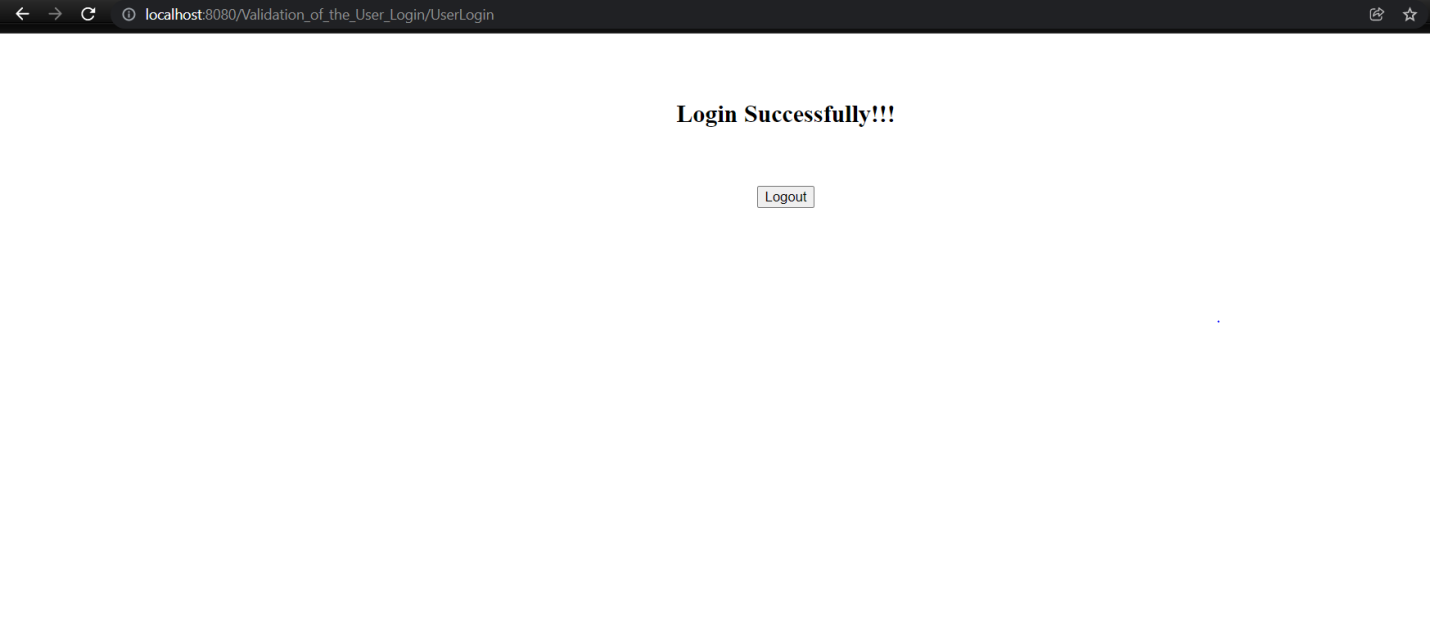
</web-app>

**Output:-**

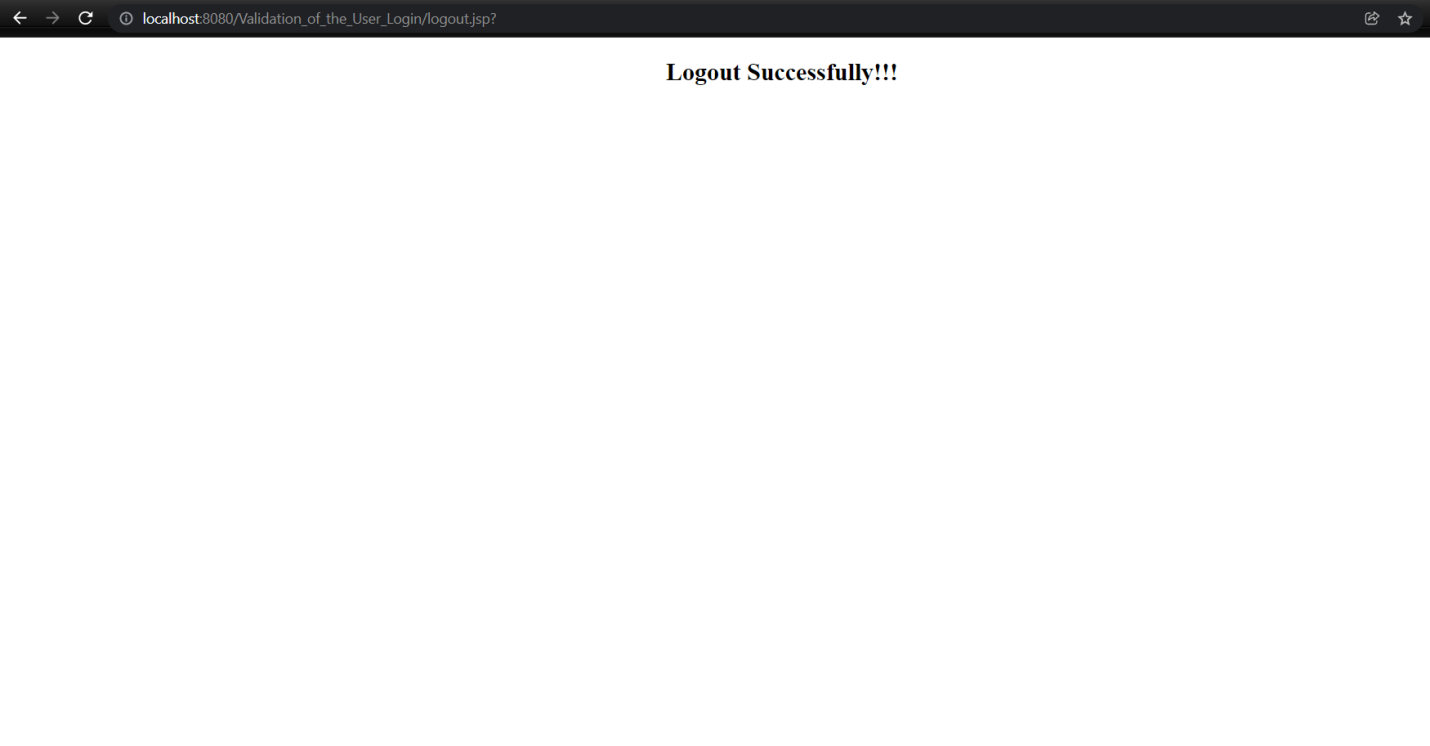
**Login Page:**

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**Login Successful:**

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**Logout Successful:**

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