**PRACTICE PROJECT 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.

**TOOLS USED:**

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

**REQUIREMENTS ACHIEVED:**

* 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

**ALGORITHM:**

* STEP 1: Create a new servlet as name as UserLogIn.

\*Set the content type as text

\*Get parameters username and password using request.get parameter

Set the value of parameters and forward the request and response

Using object of dispatcher get request to the index

* STEP 2: Create a servlet for dashboard this is for the set the message for successful login
* STEP 3: Create a servlet for logout using session object set false or invalid
* STEP 4: Create a servlet for logout using session object set false or invalid
* STEP 5 : Create a HTML file and run using the Tomcat server

**SOURCE CODE:**

**HTML FILE:**

**INDEX.HTML**

<!DOCTYPE html>

<html>

<head>

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

<title>User Login</title>

</head>

<body>

<form action=*"UserLoginPage"* method=*"Post"*>

<label>Name :</label>

<input type=*"text"* name=*"userName"* placeholder=*"UserName"* ><br>

<label>Password :</label>

<input type=*"text"* name=*"userPassword"* placeholder=*"Password"*><br>

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

</form>

</body>

</html>

**JAVA FILE:**

**DASHBOARD.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("/Dashboard")

public class Dashboard extends HttpServlet {

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

response.setContentType("text/html");

response.getWriter().println("Welcome "

+ request.getParameter("userName")+"! ");

response.getWriter().println("<br/>You Logged In Successfully");

PrintWriter out = response.getWriter();

out.println("<br/><a href=\"UserLogOut\">LogOut Here...</a>");

}

}

**USERLOGINPAGE.JAVA**

import java.io.IOException;

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;

@WebServlet("/UserLoginPage")

public class UserLoginPage extends HttpServlet {

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

// Set the content type

response.setContentType("text/html");

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

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

if(userName.equals("Arul") && userPassword.equals("JavaFSD")) {

RequestDispatcher dispatcher = request.getRequestDispatcher("Dashboard");

dispatcher.forward(request, response);

}

else {

response.getWriter().println("Invalid Username or password!!!");

// Get the RequestDispatcher object

RequestDispatcher dispatcher = request.getRequestDispatcher("/Index.html");

// Forward the request

dispatcher.include(request, response);

}

}

}

**LOGOUT.JAVA:**

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;

@WebServlet("/UserLogOut")

public class UserLogOut extends HttpServlet{

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

HttpSession session = request.getSession();

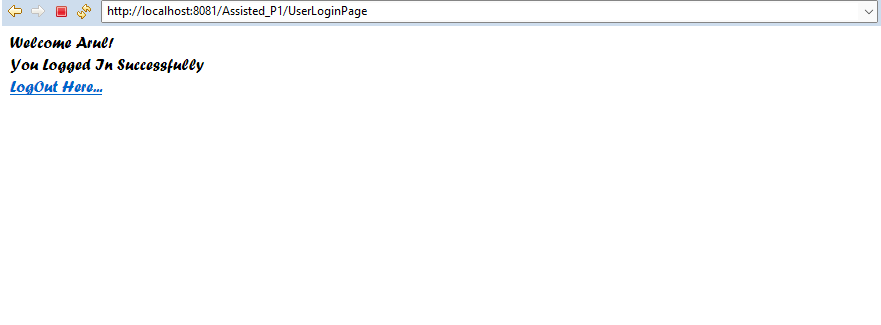
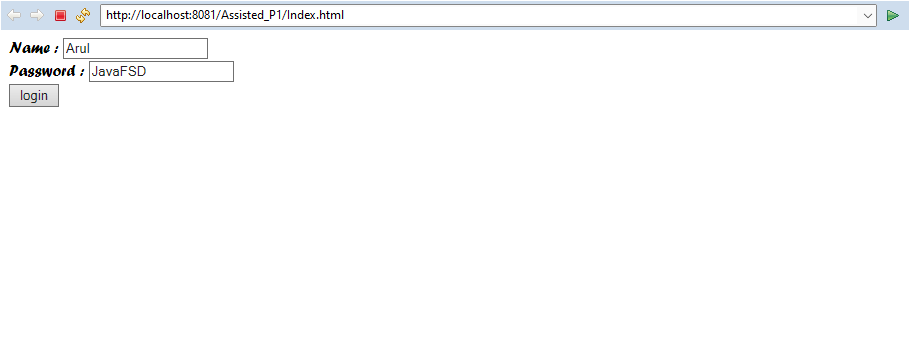
session.invalidate();

response.sendRedirect("Index.html");

}

}

**OUTPUT:**

****

­­­**RESULT:**

Thus the Validation of the User Login executed and verified successfully.