PHASE2-FIRST-PROJECT WriteUp

DESCRIPTION

**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.

**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

index.html:

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>LOGIN LOGOUT</title>

</head>

<body>

<a href=*"Login.html"*>login</a>

<a href=*"./LogoutServlet"*>logout</a>

<a href=*"./Dashboard"*>dashboard</a>

</body>

</html>

Login.html:

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>LOGIN FORM</title>

</head>

<body>

<h1>

Login form

</h1>

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

UserName<input type=*"text"* name=*"user"*><br>

Password<input type=*"password"* name=*"pwd"*><br>

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

</form>

</body>

</html>

LoginServlet.java:

package com.simplilearn.fp;

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;

import javax.servlet.http.HttpSession;

/\*\*

\* Servlet implementation class 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 {

}

/\*\*

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

\*/

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

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

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

PrintWriter pw=response.getWriter();

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

rd.include(request, response);

if(user.equals(pwd)) {

HttpSession hs=request.getSession();

hs.setAttribute("userid", user);

pw.println("login successfull");

}

else {

pw.println("check the credentials");

}

}

}

LogoutServlet.java:

package com.simplilearn.fp;

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;

import javax.servlet.http.HttpSession;

/\*\*

\* Servlet implementation class Logout

\*/

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 {

PrintWriter out=response.getWriter();

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

rd.include(request, response);

HttpSession hs = request.getSession();

hs.invalidate();

out.println("Logged out Successfully");

}

/\*\*

\* @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);

}

}

Dashboard.java:

package com.simplilearn.fp;

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;

import javax.servlet.http.HttpSession;

/\*\*

\* Servlet implementation class Dashboard

\*/

public class Dashboard extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#HttpServlet()

\*/

public Dashboard() {

super();

// TODO Auto-generated constructor stub

}

/\*\*

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

\*/

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

PrintWriter out = response.getWriter();

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

rd.include(request, response);

HttpSession hs = request.getSession();

String user=(String) hs.getAttribute("userid");

if(user!=null) {

out.println("Welcome to " + user);

}

else {

out.println("hey login first");

}

}

/\*\*

\* @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);

}

}

Web.xml:

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

<web-app id=*"WebApp\_ID"* version=*"2.5"*

xmlns=*"http://java.sun.com/xml/ns/javaee"*

xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"* xsi:schemaLocation=*"http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-app\_2\_5.xsd"*>

<display-name>PHASE2-FIRST-PROJECT</display-name>

<servlet>

<display-name>LoginServlet</display-name>

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

<servlet-class>com.simplilearn.fp.LoginServlet</servlet-class>

</servlet>

<servlet>

<display-name>Dashboard</display-name>

<servlet-name>Dashboard</servlet-name>

<servlet-class>com.simplilearn.fp.Dashboard</servlet-class>

</servlet>

<servlet>

<display-name>Logout</display-name>

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

<servlet-class>com.simplilearn.fp.LogoutServlet</servlet-class>

</servlet>

<servlet-mapping>

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

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

</servlet-mapping>

<servlet-mapping>

<servlet-name>Dashboard</servlet-name>

<url-pattern>/Dashboard</url-pattern>

</servlet-mapping>

<servlet-mapping>

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

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

</servlet-mapping>

<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>

**Pushing the code to your GitHub repositories**

* Open your command prompt and navigate to the folder where you have created your files.

**cd <folder path>**

* Initialize your repository using the following command:

**git init**

* Add all the files to your git repository using the following command:

**git add .**

* Commit the changes using the following command:

**git commit . -m “Changes have been committed.”**

* Push the files to the folder you initially created using the following command:

**git push -u origin master**