Validation of the User Login

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.

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 {
```

```java
                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);
        }

}
```

Index.html:-
```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 />
```

```html
    <input type = "submit" value = "Login" />
   </fieldset>
</form>

</body>
</html>
```