

LoginServlet.java

```
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpSession;

import java.io.IOException;

/**
 * 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
        response.getWriter().append("Served at:
    ").append(request.getContextPath());
    }

    /**
     * @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);
        String username = request.getParameter("username");
        String password = request.getParameter("password");

        // Simulated user validation: In a real application, validate against
    a database
        if ("admin".equals(username) && "password".equals(password)) {
```

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        HttpSession session = request.getSession(true);
        session.setAttribute("username", username);
        response.sendRedirect("Welcome.jsp");
    } else {
        response.sendRedirect("Error.jsp");
    }
}
}
}

```

LogoutServlet.java

```

import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpSession;

import java.io.IOException;

/**
 * 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 {
        // TODO Auto-generated method stub
        response.getWriter().append("Served at:
    ").append(request.getContextPath());
    }

    /**

```

```

        * @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);
            HttpSession session = request.getSession(false);
            if (session != null) {
                session.invalidate();
            }
            response.sendRedirect("Login.html");
        }
    }
}

```

Error.jsp

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Error</title>
</head>
<body>
    <h2>Login Failed</h2>
    <p>Invalid username or password. <a href="Login.html">Please try again.</a></p>
</body>
</html>

```

Login.html

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Login</title>
</head>
<body>
    <h2>Login Page</h2>
    <form action="LoginServlet" method="post">
        <label for="username">Username:</label>
        <input type="text" id="username" name="username" required>
        <br><br>
        <label for="password">Password:</label>
        <input type="password" id="password" name="password" required>
    </form>

```

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

Welcome.html

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>

    <%@ page import="jakarta.servlet.http.HttpSession" %>

<%
    HttpSession session2 = request.getSession(false);
    if (session2 == null || session2.getAttribute("username") == null) {
        response.sendRedirect("login.html");
    } else {
        String username = (String) session2.getAttribute("username");
%>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Welcome</title>
</head>
<body>
    <h2>Welcome, <%= username %>!</h2>
    <form action="LogoutServlet" method="post">
        <input type="submit" value="Logout">
    </form>
</body>
</html>
<%
}
%>
```