**Index.html**

<!DOCTYPE html>

<html>

<head>

<title>Login Page</title>

</head>

<body>

<h1>Login</h1>

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

Username: <input type="text" name="username"><br>

Password: <input type="password" name="password"><br>

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

</form>

</body>

</html>

**Error.html**

<!DOCTYPE html>

<html>

<head>

<title>Error</title>

</head>

<body>

<h1>Error</h1>

<p>${error}</p>

<a href="index.html">Go back to login</a>

</body>

</html>

**loginServlet.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("/LoginServlet")

**public** **class** LoginServlet **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

// Hard-coded credentials (replace with your own)

**private** **static** **final** String ***VALID\_USERNAME*** = "user";

**private** **static** **final** String ***VALID\_PASSWORD*** = "password";

**protected** **void** doPost(HttpServletRequest request, HttpServletResponse response)

**throws** ServletException, IOException {

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

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

**if** (username.equals(***VALID\_USERNAME***) && password.equals(***VALID\_PASSWORD***)) {

// Valid login; create a session

HttpSession session = request.getSession();

session.setAttribute("username", username);

// Redirect to the dashboard page

response.sendRedirect("DashboardServlet");

} **else** {

// Invalid login; forward to the error page

request.setAttribute("error", "Invalid username or password.");

request.getRequestDispatcher("error.html").forward(request, response);

}

}

}

**logoutServlet.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("/LogoutServlet")

**public** **class** LogoutServlet **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

**protected** **void** doGet(HttpServletRequest request, HttpServletResponse response)

**throws** ServletException, IOException {

HttpSession session = request.getSession();

session.invalidate(); // Invalidate the session to log the user out

response.sendRedirect("index.html");

}

}

**DashboardServlet.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("/DashboardServlet")

**public** **class** DashboardServlet **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

**protected** **void** doGet(HttpServletRequest request, HttpServletResponse response)

**throws** ServletException, IOException {

HttpSession session = request.getSession();

String username = (String) session.getAttribute("username");

**if** (username != **null**) {

// User is logged in; display the dashboard

response.getWriter().println("<h1>Welcome to the Dashboard, " + username + "!</h1>");

response.getWriter().println("<a href='LogoutServlet'>Logout</a>");

} **else** {

// User is not logged in; redirect to the login page

response.sendRedirect("index.html");

}

}

}