



## Practical

7

## JSP - User Authentication

\* db.jsp

```
<%@page contentType="text/html"
    pageEncoding="UTF-8" %>
<%@page import="java.sql.*" %>
```

```
<html>
```

```
    <head>
```

```
        <title> JSP Page </title>
```

```
    </head>
```

```
    <body>
```

```
        <%!
```

```
        public Connection getConnection() {
```

```
            Connection conn = null;
```

```
            try {
```

```
                Class.forName("com.mysql.cj.jdbc.Driver");
```

```
                conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/
                    userdb", "root", "");
```

```
            } catch (Exception e) {
```

```
                e.printStackTrace();
```

```
            }
```

```
            return conn;
```

```
        }
```

```
    %>
```

```
</body>
```

```
</html>
```





\* authenticate.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@page import="java.sql.*"%>
<%@include file="db.jsp"%>
```

```
<html>
```

```
<head>
```

```
<title>JSP Page </title>
```

```
</head>
```

```
<body>
```

```
<%
```

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

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

```
if (username != null && password != null) {
```

```
Connection conn = getConnection();
```

```
PreparedStatement ps = conn.prepareStatement
```

```
"SELECT * FROM users WHERE username=? AND  
password=?";
```

```
ps.setString(1, username);
```

```
ps.setString(2, password);
```

```
ResultSet rs = ps.executeQuery();
```

```
if (rs.next()) {
```

```
session.setAttribute("username", username);
```

```
response.sendRedirect("welcome.jsp");
```

```
} else {
```

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

```
request.getRequestDispatcher("login.jsp").forward(req, res);
```

```
} conn.close(); } %>
```

```
</body> </html>
```





\* login.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@page import="java.sql.*"%>

<html>
  <head>
    <title>JSP Page </title>
  </head>
  <body>
    <h1>User Login </h1>
    <form action="authentication.jsp" method="POST">
      Username: <input type="text" name="username"
        required> <br>
      Password: <input type="password" name="password"
        required> <br>
        <input type="submit" value="Login">
    </form>
    <p style="color:red;"> ${errorMessage} </p>
  </body>
</html>
```





\* welcome.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@page import="jakarta.servlet.http.*,
jakarta.servlet.*"%>
```

```
<html>
```

```
<head>
```

```
<title>JSP Page </title>
```

```
</head>
```

```
<body>
```

```
<h1>
```

```
Welcome, <%=session.getAttribute("username")%>!
```

```
</h1>
```

```
</body>
```

```
</html>
```