

7. Develop a data driven JSP application for user authentication.

db.jsp

```
<%@ page import="java.sql.*" %>

<%!

    public Connection getConnection() {

        Connection conn = null;

        try {

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

            conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/servlets"
, "root", "Gaurav@123");

        } catch (Exception e) {

            e.printStackTrace();

        }

        return conn;

    }

%>
```

Login.jsp

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

<!DOCTYPE html>
```

```
<html>
<head>
    <title>Login Page</title>
</head>
<body>
    <h2>User Login</h2>
    <form action="authenticate.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>
```

authenticate.jsp

```
<%@ page import="java.sql.*" %>
<%@ include file="db.jsp" %>

<%
    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(request,  
response);  
    }  
    conn.close();  
}  
%>
```

Welcome.jsp

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

```
<%@ page import="jakarta.servlet.http.*, jakarta.servlet.*" %>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
    <title>Welcome</title>
```

```
</head>
```

```
<body>
```

```
    <h2>Welcome, <%= session.getAttribute("username") %>!</h2>
```

```
</body>
```

```
</html>
```