### **Experiment -8**

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**7.1.1.Aim:** To develop a servlet that accepts user credentials from an HTML form and displays a personalized welcome message on successful login.

**7.1.2 Objective:** Learn form handling with Servlets Understand HTTP request/response handling Practice doPost() method

```
7.1.3 Code:
```

```
<!DOCTYPE html>
<html>
<head><title>Login</title></head>
<body>
 <form action="LoginServlet" method="post"> Username: <input</pre>
  type="text" name="username"><br>
  Password: <input type="password" name="password"><br>
  <input type="submit" value="Login">
 </form>
</body>
</html>
import java.io.*; import
javax.servlet.*;
import javax.servlet.http.*;
public class LoginServlet extends HttpServlet {
  protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
        ServletException, IOException {
     String user = request.getParameter("username"); String pass =
     request.getParameter("password");
     response.setContentType("text/html"); PrintWriter out =
     response.getWriter();
     if ("admin".equals(user) && "1234".equals(pass)) {
```

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```
Discover. Learn. Empower.
         out.println("<h2>Welcome, " + user + "!</h2>");
       } else {
         out.println("<h2>Login Failed. Invalid credentials.</h2>");
       }
    }
 }
 <web-app>
  <servlet>
    <servlet-name>LoginServlet</servlet-name>
    <servlet-class>LoginServlet</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>LoginServlet</servlet-name>
    <url-pattern>/LoginServlet</url-pattern>
  </servlet-mapping>
 </web-app>
```

## **Output:**

- 1) On correct login: Welcome, Back!
- 2) On failure: Login Failed. Invalid credentials.

**7.2.1 Aim:** To build a servlet integrated with JDBC that displays all employees and enables search employee ID.

**Objective:** 1) Use JDBC with Servlet

- 2) Fetch and display records
- 3) Implement search functionality

```
7.2.2 Code:
<!DOCTYPE html>
<html>
<head><title>Search Employee</title></head>
<body>
 <form action="EmployeeServlet" method="post">
  Enter Employee ID: <input type="text" name="empId">
  <input type="submit" value="Search">
 </form>
</body>
</html>
import java.io.*; import
javax.servlet.*;
import javax.servlet.http.*; import
java.sql.*;
public class EmployeeServlet extends HttpServlet {
  protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
        ServletException, IOException {
     String empId = request.getParameter("empId");
     response.setContentType("text/html"); PrintWriter out =
     response.getWriter();
     try {
        Class.forName("com.mysql.jdbc.Driver"); Connection con
DriverManager.getConnection("jdbc:mysql://localhost:3306/company", "root", "password");
        String query = "SELECT * FROM employees WHERE emp id=?";
        PreparedStatement ps = con.prepareStatement(query);
```

# **7.2.3 Output:**

- 1) Enter an employee ID  $\rightarrow$  Shows details if found.
- 2) Not found  $\rightarrow$  "No employee found with ID X

**7.3.1 Aim:** To develop a JSP-based student portal that accepts attendance data and saves it to the database using a servlet.

**Objective:** 1) Combine JSP for UI and Servlets for logic

- 2) Perform INSERT using JDBC
- 3) Build a real-world web flow

```
Code:
<%@ page language="java" %>
<head><title>Student Attendance</title></head>
<body>
 <h2>Mark Attendance</h2>
 <form action="AttendanceServlet" method="post"> Roll No:
  <input type="text" name="roll"><br> Name: <input type="text"</pre>
  name="name"><br> Status: <select name="status">
     <option>Present
     <option>Absent
  </select><br>
  <input type="submit" value="Submit">
 </form>
</body>
</html>
import java.io.*; import
javax.servlet.*;
import javax.servlet.http.*; import
java.sql.*;
public class AttendanceServlet extends HttpServlet {
  protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException,
        IOException {
     String roll = request.getParameter("roll"); String name =
     request.getParameter("name"); String status =
     request.getParameter("status");
     response.setContentType("text/html");
```

```
PrintWriter out = response.getWriter();
     try {
        Class.forName("com.mysql.jdbc.Driver"); Connection con
DriverManager.getConnection("jdbc:mysql://localhost:3306/student portal", "root",
"password");
        String query = "INSERT INTO attendance (roll no, name, status) VALUES (?, ?,
?)";
        PreparedStatement ps = con.prepareStatement(query); ps.setString(1, roll);
        ps.setString(2, name);
        ps.setString(3, status);
        int i = ps.executeUpdate(); if (i >
        0) {
           out.println("<h3>Attendance marked successfully for " + name + "!</h3>");
        }
        con.close();
     } catch (Exception e) {
        out.println("Error: " + e.getMessage());
  }
CREATE TABLE attendance (
  id INT AUTO INCREMENT PRIMARY KEY,
  roll no VARCHAR(20), name
  VARCHAR(100),
  status VARCHAR(10)
);
```

### **OUTPUT:**

Form submission → "Attendance marked successfully for John!" And the data is stored in the database.