

Experiment-8

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in Java with Lab

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

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

Code:

```
<!DOCTYPE html>
<html>
<head><title>Login</title></head>
<body>
 <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>
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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Output:

1)

```
Enter username: admin
Enter password: 1234
Welcome, admin!
```

2)

Enter username: user

Login Failed. Invalid credentials.



Experiment -8.2

Aim: To build a servlet integrated with JDBC that displays all employees and enables search by employeeID.

Objective: 1) Use JDBC with Servlet

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

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");

try {
    Class.forName("com.mysql.jdbc.Driver");
    Connection con =

DriverManager.getConnection("jdbc:mysql://localhost:3306/company", "root", "password");
```



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```
String query = "SELECT * FROM employees WHERE emp_id=?";
PreparedStatement ps = con.prepareStatement(query);
ps.setString(1, empId);
ResultSet rs = ps.executeQuery();

if (rs.next()) {
    out.println("<h2>Employee Details</h2>");
    out.println("ID: " + rs.getInt(1) + "<br>
    out.println("Name: " + rs.getString(2) + "<br/>
    out.println("Department: " + rs.getString(3));
} else {
    out.println("No employee found with ID " + empId);
}

con.close();
} catch (Exception e) {
    out.println("Error: " + e.getMessage());
}
}
```

Output:

1)

```
Employee Details
ID: 101
Name: John Doe
```

2)

No employee found with ID 999



Experiment -8.3

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:

import java.io.*; import

```
<%@ page language="java" %>
<html>
<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" name="name"><br> Status: <select</pre>
  name="status">
    <option>Present
    <option>Absent
  </select><br>
  <input type="submit" value="Submit">
 </form>
</body>
</html>
```

```
import javax:servlet.http.*;
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");
```

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```
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     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_noVARCHAR(20),
name VARCHAR(100),
status VARCHAR(10)
);
```

OUTPUT:

Attendance marked successfully for John Doe!