Experiment-8

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in Java withLab

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

Objective:LearnformhandlingwithServlets Understand HTTP request/response handling Practice doPost() method

```
Code:
<!DOCTYPEhtml>
<html>
<head><title>Login</title></head>
<body>
 <form action="LoginServlet" method="post">
  Username:<inputtype="text"name="username"><br>
  Password:<inputtype="password"name="password"><br>
  <inputtype="submit"value="Login">
 </form>
</body>
</html>
import java.io.*;
importjavax.servlet.*;
importjavax.servlet.http.*;
publicclassLoginServletextendsHttpServlet{
  protected void do Post (Http Servlet Request request, Http Servlet Response response) \ throws
       ServletException, IOException {
    Stringuser=request.getParameter("username");
    Stringpass = request.getParameter("password");
    response.setContentType("text/html");
    PrintWriterout=response.getWriter();
    if("admin".equals(user)&&"1234".equals(pass)){
```

```
out.println("<h2>Welcome,"+user+"!</h2>");
}else{
out.println("<h2>LoginFailed.Invalidcredentials.</h2>");
}

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out.println("<h2>Welcome,"+user+"!</h2>");
}else{
out.println("<h2>LoginFailed.Invalidcredentials.</h2>");
}

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out.println("<h2>Velcome,"+user+"!</h2>");
}

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out.println("<h2>Velcome,"+user+"!</h2>");
}

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```

Output:

- 1) On correct login: Welcome, Sarthak!
- 2) Onfailure:LoginFailed.Invalidcredentials.

Aim: To build a servlet integrated with JDBC that displays all enables employeesand search by employee ID.

Objective:1)UseJDBCwithServlet

- 2) Fetchanddisplayrecords
- 3) Implementsearchfunctionality

```
Code:
<!DOCTYPEhtml>
<html>
<head><title>SearchEmployee</title></head>
<body>
 <formaction="EmployeeServlet"method="post">
  EnterEmployeeID:<inputtype="text"name="empId">
  <inputtype="submit"value="Search">
 </form>
</body>
</html>
import java.io.*;
importjavax.servlet.*;
importjavax.servlet.http.*;
import java.sql.*;
publicclassEmployeeServletextendsHttpServlet{
  protected void do Post (Http Servlet Request request, Http Servlet Response response) \ throws
       ServletException, IOException {
    StringempId=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");
       Stringquery="SELECT*FROMemployeesWHEREemp_id=?";
```



PreparedStatement ps = con.prepareStatement(query);

```
ps.setString(1,empId);
ResultSetrs=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("NoemployeefoundwithID"+empId);
}

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

Output:

- 1) EnteranemployeeID→Showsdetailsiffound.
- 2) Notfound→"NoemployeefoundwithIDX

Aim:TodevelopaJSP-basedstudentportalthatacceptsattendancedataandsavesitto the database using a servlet.

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

- 2) PerformINSERTusingJDBC
- 3) Buildareal-worldwebflow

```
Code:
<%@pagelanguage="java"%>
<html>
<head><title>StudentAttendance</title></head>
<body>
 <h2>MarkAttendance</h2>
 <formaction="AttendanceServlet"method="post">
  Roll No: <input type="text" name="roll"><br>
  Name: <input type="text" name="name"><br>
  Status: <select name="status">
    <option>Present
    <option>Absent
  </select><br>
  <inputtype="submit"value="Submit">
 </form>
</body>
</html>
import java.io.*;
importjavax.servlet.*;
importjavax.servlet.http.*;
import java.sql.*;
publicclassAttendanceServletextendsHttpServlet{
  protected void do Post(Http Servlet Requestrequest, Http Servlet Response response)\ throws
      ServletException, IOException {
    String roll = request.getParameter("roll");
    String name = request.getParameter("name");
    Stringstatus=request.getParameter("status");
    response.setContentType("text/html");
```

the data is stored in the database.

```
PrintWriterout= response.getWriter();
    try{
      Class.forName(''com.mysql.jdbc.Driver'');
      Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/student_portal","root",
"password");
      Stringquery="INSERTINTOattendance(roll_no,name,status)VALUES(?,?,
?)";
      PreparedStatementps=con.prepareStatement(query); ps.setString(1,
      roll);
      ps.setString(2, name);
      ps.setString(3,status);
      inti=ps.executeUpdate(); if
      (i > 0) {
        out.println("<h3>Attendancemarkedsuccessfullyfor"+name+"!</h3>");
      }
      con.close();
    }catch(Exceptione){
      out.println("Error:"+ e.getMessage());
    }
  }
CREATETABLEattendance(
  idINTAUTO_INCREMENTPRIMARYKEY,
  roll_noVARCHAR(20),
  name VARCHAR(100),
  statusVARCHAR(10)
);
     OUTPUT
Formsubmission -- "Attendancemarked successfully for John!" And
```