Experiment_8

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1.EASY LEVEL:

```html
<!DOCTYPE html>
<html>
<head>
   <title>Login Page</title>
</head>
<body>
   <form action="LoginServlet" method="post">
      Username: <input type="text" name="username" required><br>
      Password: <input type="password" name="password" required><br>
      <input type="submit" value="Login">
   </form>
</body>
</html>
```

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

      response.setContentType("text/html");
```

```java
        PrintWriter out = response.getWriter();

        if ("admin".equals(username) && "1234".equals(password)) {
            out.println("<h2>Welcome, " + username + "!</h2>");
        } else {
            out.println("<h2>Login failed! Try again.</h2>");
        }
    }
}
```

2. Medium level:

```html
<!DOCTYPE html>
<html>
<head><title>Employee Search</title></head>
<body>
    <form action="EmployeeServlet" method="get">
        Enter Employee ID: <input type="text" name="id">
        <input type="submit" value="Search">
    </form>
</body>
</html>
```

```java
import java.io.*;
import java.sql.*;
import javax.servlet.*;
import javax.servlet.http.*;

public class EmployeeServlet extends HttpServlet {
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {

        String id = request.getParameter("id");
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
```

```java
      try {
          Class.forName("com.mysql.cj.jdbc.Driver");
          Connection con = DriverManager.getConnection(
              "jdbc:mysql://localhost:3306/yourDB", "root", "password");
              Statement stmt = con.createStatement();
          String query = "SELECT * FROM employees";
          if (id != null && !id.trim().isEmpty()) {
              query += " WHERE id=" + id;
          }

          ResultSet rs = stmt.executeQuery(query);
          out.println("<table
border='1'><tr><th>ID</th><th>Name</th><th>Role</th></tr>");
          while (rs.next()) {
              out.println("<tr><td>" + rs.getInt("id") + "</td><td>" +
                      rs.getString("name") + "</td><td>" +
                      rs.getString("role") + "</td></tr>");
          }
          out.println("</table>");
      } catch (Exception e) {
          out.println("Error: " + e.getMessage());
      }
    }
}
```

3.Hard Level:

```html
<html>
<head><title>Attendance Form</title></head>
<body>
  <form action="AttendanceServlet" method="post">
    Roll No: <input type="text" name="roll"><br>
    Name: <input type="text" name="name"><br>
    Date: <input type="date" name="date"><br>
    Present: <input type="checkbox" name="status" value="Present"><br>
    <input type="submit" value="Submit">
  </form>
</body>
</html>
```

```java
import java.io.*;
import java.sql.*;
import javax.servlet.*;
import javax.servlet.http.*;

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 date = request.getParameter("date");
        String status = request.getParameter("status") != null ? "Present" : "Absent";

        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection con = DriverManager.getConnection(
                "jdbc:mysql://localhost:3306/yourDB", "root", "password");
PreparedStatement ps = con.prepareStatement("INSERT INTO attendance VALUES (?, ?, ?, ?)");
            ps.setString(1, roll);
            ps.setString(2, name);
            ps.setString(3, date);
            ps.setString(4, status);
            ps.executeUpdate();

            response.setContentType("text/html");
            PrintWriter out = response.getWriter();
            out.println("<h3>Attendance saved successfully!</h3>");

        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}


CREATE TABLE attendance (
    roll VARCHAR(20),
    name VARCHAR(50),
```

```
    date DATE,
    status VARCHAR(10)
);
```