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Skill Week – 13

JDBC & Servlet

```
import java.io.IOException;

import java.io.PrintWriter;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.Statement;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;


@WebServlet("/users")

public class UserServlet extends HttpServlet {

    private static final String URL = "jdbc:mysql://localhost:3306/mydatabase"; // Change
to your database URL

    private static final String USERNAME = "root"; // Change to your database username

    private static final String PASSWORD = "password"; // Change to your database
password


    @Override
```

```java
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {

        response.setContentType("text/html");

        PrintWriter out = response.getWriter();


        Connection connection = null;

        Statement statement = null;

        ResultSet resultSet = null;


        try {

            // Load JDBC driver

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


            // Establish connection

            connection = DriverManager.getConnection(URL, USERNAME, PASSWORD);

            statement = connection.createStatement();


            // Execute query

            String sql = "SELECT id, name, age FROM users";

            resultSet = statement.executeQuery(sql);


            // Display results

            out.println("<html><body>");

            out.println("<h1>User List</h1>");

            out.println("<table
border='1'><tr><th>ID</th><th>Name</th><th>Age</th></tr>");

            while (resultSet.next()) {

                int id = resultSet.getInt("id");

                String name = resultSet.getString("name");
```

```java
                int age = resultSet.getInt("age");

                out.println("<tr><td>" + id + "</td><td>" + name + "</td><td>" + age +
"</td></tr>");

            }

            out.println("</table></body></html>");

        } catch (Exception e) {

            e.printStackTrace();

            out.println("<p>Error: " + e.getMessage() + "</p>");

        } finally {

            // Clean up resources

            try {

                if (resultSet != null) resultSet.close();

                if (statement != null) statement.close();

                if (connection != null) connection.close();

            } catch (Exception e) {

                e.printStackTrace();

            }

        }

    }

}
```