

WELCOME.JSP

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
pageEncoding="UTF-8"%>
<%@ page import="java.util.Date, java.text.SimpleDateFormat" %>
<%@ page import="java.sql.*, javax.sql.rowset.serial.SerialBlob" %>
<%@ page import="jakarta.servlet.http.HttpSession" %>
<%@ page import="java.io.*" %>

<%
    HttpSession session1 = request.getSession(false);

    // Check if the user is logged in
    if (session1 != null && session1.getAttribute("username") != null) {
        String username = (String) session1.getAttribute("username");
        Date loginTime = (Date) session1.getAttribute("loginTime");

        // Format the login time using SimpleDateFormat
        SimpleDateFormat sdf = new SimpleDateFormat("yyyy-MM-dd HH:mm:ss");
        String formattedLoginTime = sdf.format(loginTime);

        // Display user information
    %>
    <h2>Welcome, <%= username %></h2>
    <p>Login Time: <%= formattedLoginTime %></p>

    <!-- Displaying the image -->
    <%
        Connection con = null;
        PreparedStatement ps = null;
        ResultSet rs = null;
        try {
            con = DriverManager.getConnection("jdbc:mysql://localhost/serv", "root", ""); //
Corrected database connection details
            ps = con.prepareStatement("SELECT pic FROM image");
            rs = ps.executeQuery();

            if (rs.next()) {
                Blob blob = rs.getBlob("pic");
                byte[] imageData = blob.getBytes(1, (int) blob.length());
                String base64Image = java.util.Base64.getEncoder().encodeToString(imageData);
            %>
            
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    <%
        }
    } catch (SQLException e) {
        e.printStackTrace();
    } finally {
        try {
            if (rs != null) rs.close();
            if (ps != null) ps.close();
            if (con != null) con.close();
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }
    %>
    <br>
    <button onclick="location.href='logout.jsp'">Logout</button> <!-- Make "Logout" a button -->

    <%
    } else {
        // Redirect to login page if the user is not logged in
        response.sendRedirect("index.html"); // Change to the appropriate page
    }
    %>

```

Loginservlet:

```

package com.mycompany.mavenproject6.resources;

import jakarta.servlet.ServletException;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpSession;

import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.Timestamp;

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import java.util.Date;

public class LoginServlet extends HttpServlet {

    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");

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

        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            try (Connection con = DriverManager.getConnection("jdbc:mysql://localhost/serv", "root",
"")) {
                PreparedStatement pst = con.prepareStatement("SELECT * FROM log WHERE
username=? AND password=?");
                pst.setString(1, username);
                pst.setString(2, password);

                ResultSet rs = pst.executeQuery();

                if (rs.next()) {
                    HttpSession session = request.getSession();
                    session.setAttribute("username", username);
                    session.setAttribute("loginTime", new Date());
                    insertLoginRecord(con, username);
                    response.sendRedirect("welcome.jsp");
                } else {
                    // Login failed
                    PrintWriter out = response.getWriter();
                    out.println("Invalid username or password");
                }
            }
        } catch (Exception e) {
            e.printStackTrace();
            PrintWriter out = response.getWriter();
            out.println("An error occurred: " + e.getMessage());
        }
    }

    private void insertLoginRecord(Connection con, String username) throws Exception {
        String query = "INSERT INTO user_sessions (username, login_time) VALUES (?, ?)";
    }
}

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        try (PreparedStatement pst = con.prepareStatement(query)) {
            pst.setString(1, username);
            pst.setTimestamp(2, new Timestamp(System.currentTimeMillis()));
            pst.executeUpdate();
        }
    }
}

```

Logout

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
pageEncoding="UTF-8"%>
<%@ page import="java.sql.Connection, java.sql.DriverManager, java.sql.PreparedStatement,
java.sql.Timestamp"%>
<%@ page import="jakarta.servlet.ServletException,
    jakarta.servlet.annotation.WebServlet, jakarta.servlet.http.HttpServlet,
    jakarta.servlet.http.HttpServletRequest, jakarta.servlet.http.HttpServletResponse"%>

<%
    // Check if the user is logged in
    HttpSession session1 = request.getSession(false);
    if (session1 != null && session1.getAttribute("username") != null) {
        String username = (String) session1.getAttribute("username");

        // Update logout time in the database
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection con = DriverManager.getConnection("jdbc:mysql://localhost/Login", "root",
                "");

            String query = "UPDATE user_sessions SET logout_time = ? WHERE username = ?";
            try (PreparedStatement pst = con.prepareStatement(query)) {
                pst.setTimestamp(1, new Timestamp(System.currentTimeMillis()));
                pst.setString(2, username);
                pst.executeUpdate();
                System.out.println("Logout"+new Timestamp(System.currentTimeMillis()));
            }

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

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        // Invalidate the session
        session1.invalidate();
    }

    // Redirect to the login page
    response.sendRedirect("index.html"); // Change to the appropriate page
%>
```

Index

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

        <label for="password">Password:</label>
        <input type="password" id="password" name="password" required><br>

        <input type="submit" value="Login">
    </form>
</body>
</html>
```