

Screenshot of different pages:

Login Page

Username:

Password:

Welcome page


Welcome, john

Login Time: 2024-01-22 19:53:36



[Logout](#)

User_sessions table:

				id	username	login_time	logout_time
<input type="checkbox"/>		Edit		Copy		Delete	48 john 2024-01-22 19:53:36 2024-01-22 19:54:22
<input type="checkbox"/>		Edit		Copy		Delete	50 muzzu 2024-01-22 19:42:54 2024-01-22 19:42:56
<input type="checkbox"/>		Edit		Copy		Delete	51 arj 2024-01-22 19:44:20 2024-01-22 19:44:22

Already Logged In

You are already logged in!

Login Time: Mon Jan 22 19:56:06 IST 2024



Log table

				id	username	password	image_data
<input type="checkbox"/>		Edit		Copy		Delete	1 john 123 [BLOB - 67.4 KiB]
<input type="checkbox"/>		Edit		Copy		Delete	2 arj 123 [BLOB - 188.4 KiB]
<input type="checkbox"/>		Edit		Copy		Delete	3 muzzu 123 [BLOB - 166.3 KiB]

Screenshot of code

Logout.jsp

```

<%@ 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, java.util.Date"%>

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

    if (session1 != null && session1.getAttribute("username") != null) {
        String username = (String) session1.getAttribute("username");

        Date loginTime = (Date) session1.getAttribute("loginTime");
        Ttime = new Timestamp(loginTime.getTime());

        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 = ? AND login_time = ? ";
            try (PreparedStatement pst = con.prepareStatement(query)) {
                Timestamp currentTime = new Timestamp(System.currentTimeMillis());
                pst.setTimestamp(1, currentTime);
                pst.setString(2, username);
                pst.setTimestamp(3, Ttime);
                pst.executeUpdate();
            }
            con.close();
        } catch (Exception e) {
            // Print the stack trace for debugging
            e.printStackTrace();
        }
        session1.invalidate();
        response.sendRedirect("index.html");
    }
%>

```

alreadyLoggedIn.jsp

```

<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8">
    <title>Already Logged In</title>
</head>
<body>
    <h2>You are already logged in!</h2>

    <p>Login Time: <%= session.getAttribute("loginTime") %></p>

    " alt="Profile Image" width="100" height="100">
</body>
</html>

```

Welcome.jsp

```

<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<%@ page import="java.util.Date, java.text.SimpleDateFormat, java.util.Base64"%>
<%@ page import="jakarta.servlet.http.HttpSession"%>
<!DOCTYPE html>
<html>
<head>
<title>Welcome Page</title>
</head>
<body>
<%
    if (request.getSession(false) != null && request.getSession(false).getAttribute("username") != null) {
        String username = (String) request.getSession(false).getAttribute("username");
        Date loginTime = (Date) request.getSession(false).getAttribute("loginTime");
        SimpleDateFormat sdf = new SimpleDateFormat("yyyy-MM-dd HH:mm:ss");
        String formattedLoginTime = sdf.format(loginTime);
        // Retrieve base64-encoded profile image from the session
        String base64Image = (String) request.getSession(false).getAttribute("profileImage");
    }

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

    <%
        if (base64Image != null && !base64Image.isEmpty()) {
            <%
                
            <%>
            } else { <%
                <p>No profile picture available.</p>
            <%>
            } <%
                <a href="logout.jsp">Logout</a>
            <%>
            } else {
                // Redirect to login page if the user is not logged in
                response.sendRedirect("index.html"); // Change to the appropriate page
            }
    }
    <%>
</body>
</html>

```

LoginServlet.java

```

/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/JSP_Servlet/Servlet.java to edit this template
 */
import jakarta.servlet.*;
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;
import java.util.Base64;
import java.util.Date;

public class LoginServlet extends HttpServlet {

    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");
            Connection con = DriverManager.getConnection("jdbc:mysql://localhost/Login", "root", "");

            // Check if the user is already logged in
            HttpSession existingSession = request.getSession(false);
            if (existingSession != null && existingSession.getAttribute("username") != null) {
                // User is already logged in
                response.sendRedirect("alreadyLoggedIn.jsp");
                con.close();
                return;
            }

```

```
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);
    byte[] imageData = rs.getBytes("image_data");
    String base64Image = Base64.getEncoder().encodeToString(imageData);
    session.setAttribute("profileImage", base64Image);
    session.setAttribute("loginTime", new Date());
    insertLoginRecord(con, username, false);
    response.sendRedirect("welcome.jsp");
} else {
    // Login failed
    PrintWriter out = response.getWriter();
    out.println("Invalid username or password");
}

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

private void insertLoginRecord(Connection con, String username, boolean isLogout) throws Exception {
    String columnName = isLogout ? "logout_time" : "login_time";
    String query = "UPDATE user_sessions SET " + columnName + " = ? WHERE username = ?";
    try (PreparedStatement pst = con.prepareStatement(query)) {
        pst.setTimestamp(1, new Timestamp(System.currentTimeMillis()));
        pst.setString(2, username);
        pst.executeUpdate();
    }
}
```

Index.html

```
<!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>
```

