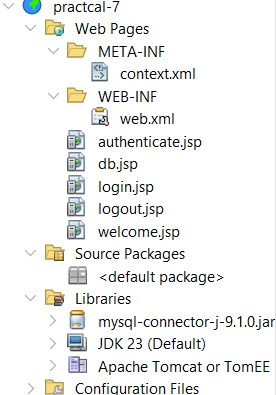
Practical – 7



web.xml

<web-app xmlns="http://java.sun.com/xml/ns/javaee"

version="3.0">

<welcome-file-list>

<welcome-file>login.jsp</welcome-file>

</welcome-file-list>

</web-app>

Note- just create a xml deployment descripter it automatically do mapping

Login.jsp

<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

    <title>Login Page</title>

</head>

<body>

    <h2>User Login</h2>

    <form action="authenticate.jsp" method="post">

        Username: <input type="text" name="username" required><br>

        Password: <input type="password" name="password" required><br>

        <input type="submit" value="Login">

    </form>

    <p style="color:red;">${errorMessage}</p>

</body>

</html>

Db.jsp

<%@ page import="java.sql.\*" %>

<%!

public Connection getConnection() {

    Connection conn = null;

    try {

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

        conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/mcadb", "root", "root");

    } catch (Exception e) {

        e.printStackTrace();

    }

    return conn;

}

%>

authenticate.jsp

<%@ page import="java.sql.\*" %>

<%@ include file="db.jsp" %>

<%

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

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

if (username == null || password == null) {

    out.println("<p>Error: Username or password is missing!</p>");

    return;

}

out.println("<p>Debug: Username - " + username + "</p>");

Connection conn = null;

PreparedStatement ps = null;

ResultSet rs = null;

try {

    conn = getConnection();

    if (conn == null) {

        out.println("<p>Error: Database connection failed!</p>");

        return;

    }

    String query = "SELECT \* FROM registration WHERE name=? AND pwd=SHA2(?, 256)";

    ps = conn.prepareStatement(query);

    ps.setString(1, username);

    ps.setString(2, password);

    rs = ps.executeQuery();

    if (rs.next()) {

        session.setAttribute("username", username);

        response.sendRedirect("welcome.jsp");

    } else {

        request.setAttribute("errorMessage", "Invalid username or password.");

        request.getRequestDispatcher("login.jsp").forward(request, response);

    }

} catch (Exception e) {

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

    e.printStackTrace();

} finally {

    if (rs != null) try { rs.close(); } catch (SQLException e) { e.printStackTrace(); }

    if (ps != null) try { ps.close(); } catch (SQLException e) { e.printStackTrace(); }

    if (conn != null) try { conn.close(); } catch (SQLException e) { e.printStackTrace(); }

}

%>

logout.jsp

<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

    <title>Login Page</title>

</head>

<body>

    <h2>User Login</h2>

    <form action="authenticate.jsp" method="post">

        Username: <input type="text" name="username" required><br>

        Password: <input type="password" name="password" required><br>

        <input type="submit" value="Login">

    </form>

    <p style="color:red;">${errorMessage}</p>

</body>

</html>

welcome.jsp

<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>

<%@ page import="java.sql.\*, jakarta.servlet.http.\*, jakarta.servlet.\*" %>

<%

String username = (String) session.getAttribute("username");

if (username == null) {

    response.sendRedirect("login.jsp");

    return;

}

%>

<!DOCTYPE html>

<html>

<head>

    <title>Welcome</title>

</head>

<body>

    <h2>Welcome, <%= username %>!</h2>

    <a href="logout.jsp">Logout</a>

</body>

</html>