***CODE***

HTML

Index.jsp :-

<html>  
<head>  
 <title>login</title>  
</head>  
<body>  
<h2>Login Here</h2>  
<form action="login\_Handler" method="post">  
 <input type="text" placeholder="Username" name="username"/><br>  
 <input type="password" placeholder="Password" name="password"/><br>  
 <input type="submit" value="Login"/>  
</form>  
</body>  
</html>

Dashboard.jsp :-

<html>  
 <head>  
 <title>Dashboard</title>  
 </head>  
 <body>  
 <form action="students" method="post">  
 <input type="submit" value="Show Students"/>  
 </form>  
  
 <form action="teachers" method="post">  
 <input type="submit" value="Show Teachers"/>  
 </form>  
  
 <form action="subjects" method="post">  
 <input type="submit" value="Show Subjects"/>  
 </form>  
  
 <form action="class\_Handler" method="post">  
 <input type="submit" value="Show Classes"/>  
 </form>  
  
 <form action="logout" method="post">  
 <input type="submit" value="Log Out"/>  
 </form>  
  
 </body>  
</html>

Login\_Handler.java

package servlets;  
  
import javax.servlet.RequestDispatcher;  
import javax.servlet.ServletException;  
import javax.servlet.http.HttpServlet;  
import javax.servlet.http.HttpServletRequest;  
import javax.servlet.http.HttpServletResponse;  
import java.io.IOException;  
import java.io.PrintWriter;  
  
public class Login\_Handler extends HttpServlet {  
 public void service(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  
 response.setContentType("text/html");  
 String username = request.getParameter("username");  
 String password = request.getParameter("password");  
 RequestDispatcher requestDispatcher = null;  
 PrintWriter out = response.getWriter();  
  
 if("admin".equals(username) && "admin123".equals(password)){  
 requestDispatcher = request.getRequestDispatcher("dashboard.jsp");  
 requestDispatcher.forward(request, response);  
 } else {  
 requestDispatcher = request.getRequestDispatcher("index.jsp");  
 out.println("<span style='color: red'>Invalid Credentials</span>");  
 requestDispatcher.include(request, response);  
 }  
 }  
}

LogOut.java

package servlets;  
  
import javax.servlet.RequestDispatcher;  
import javax.servlet.ServletException;  
import javax.servlet.http.HttpServlet;  
import javax.servlet.http.HttpServletRequest;  
import javax.servlet.http.HttpServletResponse;  
import java.io.IOException;  
import java.io.PrintWriter;  
  
public class LogOut extends HttpServlet {  
 public void service(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  
 response.setContentType("text/html");  
 PrintWriter out = response.getWriter();  
 RequestDispatcher requestDispatcher = request.getRequestDispatcher("index.jsp");  
 out.println("<span style='color: green;'>Logged Out Successfully !!!</span>");  
 requestDispatcher.include(request, response);  
 }  
}

Class\_Handler.java

package servlets;  
  
import javax.servlet.ServletException;  
import javax.servlet.http.HttpServlet;  
import javax.servlet.http.HttpServletRequest;  
import javax.servlet.http.HttpServletResponse;  
import java.io.IOException;  
import java.io.PrintWriter;  
import java.sql.Connection;  
import java.sql.DriverManager;  
import java.sql.ResultSet;  
import java.sql.Statement;  
  
public class Class\_Handler extends HttpServlet {  
 public void service(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  
 response.setContentType("text/html");  
 PrintWriter out = response.getWriter();  
 try {  
 Class.*forName*("com.mysql.jdbc.Driver");  
 Connection connection = DriverManager.*getConnection*("jdbc:mysql://localhost:3306/learner\_academy",  
 "root","root");  
 Statement statement = connection.createStatement();  
 String query = "select class.Class, class\_teachers.Name from class\_teachers " +  
 "inner join class on class.Class\_ID = class\_teachers.Class\_ID";  
 ResultSet resultSet = statement.executeQuery(query);  
 out.println("<html><body><table style='border: 1px solid black;'><tr>");  
 out.println("<th style='border: 1px solid black;'>Class</th>");  
 out.println("<th style='border: 1px solid black;'>Class Teacher</th>");  
 out.println("</tr>");  
 while (resultSet.next()){  
 out.println("<tr>");  
 out.println("<td style='border: 1px solid black;'>"+resultSet.getString(1)+"</td>");  
 out.println("<td style='border: 1px solid black;'>"+resultSet.getString(2)+"</td>");  
 out.println("</tr>");  
 }  
 out.println("</table></body></html>");  
 out.println("<a href='dashboard.jsp'>Back</a>");  
 } catch (Exception e){  
 e.printStackTrace();  
 }  
 }  
}

Students.java

package servlets;  
  
import javax.servlet.ServletException;  
import javax.servlet.http.HttpServlet;  
import javax.servlet.http.HttpServletRequest;  
import javax.servlet.http.HttpServletResponse;  
import java.io.IOException;  
import java.io.PrintWriter;  
import java.sql.Connection;  
import java.sql.DriverManager;  
import java.sql.ResultSet;  
import java.sql.Statement;  
  
public class Students extends HttpServlet {  
 public void service(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  
 response.setContentType("text/html");  
 PrintWriter out = response.getWriter();  
 try {  
 Class.*forName*("com.mysql.jdbc.Driver");  
 Connection connection = DriverManager.*getConnection*("jdbc:mysql://localhost:3306/learner\_academy",  
 "root","root");  
 Statement statement = connection.createStatement();  
 String query = "select students.First\_Name, students.Last\_Name, " +  
 "students.Roll\_No, class.Class from students inner join class on students.Class\_ID = class.Class\_ID;";  
 ResultSet resultSet = statement.executeQuery(query);  
 out.println("<html><body><table style='border: 1px solid black;'><tr>");  
 out.println("<th style='border: 1px solid black;'>First Name</th>");  
 out.println("<th style='border: 1px solid black;'>Last Name Name</th>");  
 out.println("<th style='border: 1px solid black;'>Roll No.</th>");  
 out.println("<th style='border: 1px solid black;'>Class</th>");  
 out.println("</tr>");  
 while (resultSet.next()){  
 out.println("<tr>");  
 out.println("<td style='border: 1px solid black;'>"+resultSet.getString(1)+"</td>");  
 out.println("<td style='border: 1px solid black;'>"+resultSet.getString(2)+"</td>");  
 out.println("<td style='border: 1px solid black;'>"+resultSet.getString(3)+"</td>");  
 out.println("<td style='border: 1px solid black;'>"+resultSet.getString(4)+"</td>");  
 out.println("</tr>");  
 }  
 out.println("</table></body></html>");  
 out.println("<a href='dashboard.jsp'>Back</a>");  
 } catch (Exception e){  
 e.printStackTrace();  
 }  
 }  
}

Subjects.java

package servlets;  
  
import javax.servlet.ServletException;  
import javax.servlet.http.HttpServlet;  
import javax.servlet.http.HttpServletRequest;  
import javax.servlet.http.HttpServletResponse;  
import java.io.IOException;  
import java.io.PrintWriter;  
import java.sql.Connection;  
import java.sql.DriverManager;  
import java.sql.ResultSet;  
import java.sql.Statement;  
  
public class Subjects extends HttpServlet {  
 public void service(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  
 response.setContentType("text/html");  
 PrintWriter out = response.getWriter();  
 try {  
 Class.*forName*("com.mysql.jdbc.Driver");  
 Connection connection = DriverManager.*getConnection*("jdbc:mysql://localhost:3306/learner\_academy",  
 "root","root");  
 Statement statement = connection.createStatement();  
 String query = "select subjects.Subject\_Name, class.Class from subjects inner join class" +  
 " on subjects.Class\_ID = class.Class\_ID;";  
 ResultSet resultSet = statement.executeQuery(query);  
 out.println("<html><body><table style='border: 1px solid black;'><tr>");  
 out.println("<th style='border: 1px solid black;'>Subject Name</th>");  
 out.println("<th style='border: 1px solid black;'>Class</th>");  
 out.println("</tr>");  
 while (resultSet.next()){  
 out.println("<tr>");  
 out.println("<td style='border: 1px solid black;'>"+resultSet.getString(1)+"</td>");  
 out.println("<td style='border: 1px solid black;'>"+resultSet.getString(2)+"</td>");  
 out.println("</tr>");  
 }  
 out.println("</table></body></html>");  
 out.println("<a href='dashboard.jsp'>Back</a>");  
 } catch (Exception e){  
 e.printStackTrace();  
 }  
 }  
}

Teachers.java

package servlets;  
  
import javax.servlet.ServletException;  
import javax.servlet.http.HttpServlet;  
import javax.servlet.http.HttpServletRequest;  
import javax.servlet.http.HttpServletResponse;  
import java.io.IOException;  
import java.io.PrintWriter;  
import java.sql.Connection;  
import java.sql.DriverManager;  
import java.sql.ResultSet;  
import java.sql.Statement;  
  
public class Teachers extends HttpServlet {  
 public void service(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {  
 response.setContentType("text/html");  
 PrintWriter out = response.getWriter();  
 try{  
 Class.*forName*("com.mysql.jdbc.Driver");  
 Connection connection = DriverManager.*getConnection*("jdbc:mysql://localhost:3306/learner\_academy",  
 "root","root");  
 Statement statement = connection.createStatement();  
 String query = "select teachers.Teacher\_Name, teachers.Qualification, subjects.Subject\_Name, class.Class" +  
 " from teachers inner join subjects on teachers.Subject\_ID = subjects.Subject\_ID inner join class" +  
 " on subjects.Class\_ID = class.Class\_ID";  
 ResultSet resultSet = statement.executeQuery(query);  
 out.println("<html><body><table style='border: 1px solid black;'><tr>");  
 out.println("<th style='border: 1px solid black;'>Teacher's Name</th>");  
 out.println("<th style='border: 1px solid black;'>Qualification</th>");  
 out.println("<th style='border: 1px solid black;'>Subject Name</th>");  
 out.println("<th style='border: 1px solid black;'>Class</th>");  
 out.println("</tr>");  
 while (resultSet.next()){  
 out.println("<tr>");  
 out.println("<td style='border: 1px solid black;'>"+resultSet.getString(1)+"</td>");  
 out.println("<td style='border: 1px solid black;'>"+resultSet.getString(2)+"</td>");  
 out.println("<td style='border: 1px solid black;'>"+resultSet.getString(3)+"</td>");  
 out.println("<td style='border: 1px solid black;'>"+resultSet.getString(4)+"</td>");  
 out.println("</tr>");  
 }  
 out.println("</table></body></html>");  
 out.println("<a href='dashboard.jsp'>Back</a>");  
 } catch (Exception e){  
 e.printStackTrace();  
 }  
 }  
}

web.xml

<!DOCTYPE web-app PUBLIC  
 "-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"  
 "http://java.sun.com/dtd/web-app\_2\_3.dtd" >  
  
<web-app>  
 <display-name>Archetype Created Web Application</display-name>  
  
 <servlet>  
 <servlet-name>Login\_Handler</servlet-name>  
 <servlet-class>servlets.Login\_Handler</servlet-class>  
 </servlet>  
  
 <servlet>  
 <servlet-name>Students</servlet-name>  
 <servlet-class>servlets.Students</servlet-class>  
 </servlet>  
  
 <servlet>  
 <servlet-name>Teachers</servlet-name>  
 <servlet-class>servlets.Teachers</servlet-class>  
 </servlet>  
  
 <servlet>  
 <servlet-name>Subjects</servlet-name>  
 <servlet-class>servlets.Subjects</servlet-class>  
 </servlet>  
  
 <servlet>  
 <servlet-name>Class\_Handler</servlet-name>  
 <servlet-class>servlets.Class\_Handler</servlet-class>  
 </servlet>  
  
 <servlet>  
 <servlet-name>LogOut</servlet-name>  
 <servlet-class>servlets.LogOut</servlet-class>  
 </servlet>  
  
 <servlet-mapping>  
 <servlet-name>Login\_Handler</servlet-name>  
 <url-pattern>/login\_Handler</url-pattern>  
 </servlet-mapping>  
  
 <servlet-mapping>  
 <servlet-name>Students</servlet-name>  
 <url-pattern>/students</url-pattern>  
 </servlet-mapping>  
  
 <servlet-mapping>  
 <servlet-name>Teachers</servlet-name>  
 <url-pattern>/teachers</url-pattern>  
 </servlet-mapping>  
  
 <servlet-mapping>  
 <servlet-name>Subjects</servlet-name>  
 <url-pattern>/subjects</url-pattern>  
 </servlet-mapping>  
  
 <servlet-mapping>  
 <servlet-name>Class\_Handler</servlet-name>  
 <url-pattern>/class\_Handler</url-pattern>  
 </servlet-mapping>  
  
 <servlet-mapping>  
 <servlet-name>LogOut</servlet-name>  
 <url-pattern>/logout</url-pattern>  
 </servlet-mapping>  
  
</web-app>

pom.xml

<?xml version="1.0" encoding="UTF-8"?>  
  
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
 xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">  
 <modelVersion>4.0.0</modelVersion>  
  
 <groupId>com.assignment</groupId>  
 <artifactId>Learner\_Academy</artifactId>  
 <version>1.0-SNAPSHOT</version>  
 <packaging>war</packaging>  
  
 <name>Learner\_Academy Maven Webapp</name>  
 <!-- *FIXME change it to the project's website* -->  
 <url>http://www.example.com</url>  
  
 <properties>  
 <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>  
 <maven.compiler.source>1.7</maven.compiler.source>  
 <maven.compiler.target>1.7</maven.compiler.target>  
 </properties>  
  
 <dependencies>  
 <dependency>  
 <groupId>javax.servlet</groupId>  
 <artifactId>servlet-api</artifactId>  
 <version>2.5</version>  
 <scope>provided</scope>  
 </dependency>  
 <dependency>  
 <groupId>javax.servlet</groupId>  
 <artifactId>javax.servlet-api</artifactId>  
 <version>3.0.1</version>  
 <scope>provided</scope>  
 </dependency>  
  
 <!-- MySQL -->  
 <dependency>  
 <groupId>mysql</groupId>  
 <artifactId>mysql-connector-java</artifactId>  
 <version>8.0.26</version>  
 </dependency>  
 </dependencies>  
  
 <build>  
 <finalName>Learner\_Academy</finalName>  
 <pluginManagement><!-- lock down plugins versions to avoid using Maven defaults (may be moved to parent pom) -->  
 <plugins>  
 <plugin>  
 <artifactId>maven-clean-plugin</artifactId>  
 <version>3.1.0</version>  
 </plugin>  
 <!-- see http://maven.apache.org/ref/current/maven-core/default-bindings.html#Plugin\_bindings\_for\_war\_packaging -->  
 <plugin>  
 <artifactId>maven-resources-plugin</artifactId>  
 <version>3.0.2</version>  
 </plugin>  
 <plugin>  
 <artifactId>maven-compiler-plugin</artifactId>  
 <version>3.8.0</version>  
 </plugin>  
 <plugin>  
 <artifactId>maven-surefire-plugin</artifactId>  
 <version>2.22.1</version>  
 </plugin>  
 <plugin>  
 <artifactId>maven-war-plugin</artifactId>  
 <version>3.2.2</version>  
 </plugin>  
 <plugin>  
 <artifactId>maven-install-plugin</artifactId>  
 <version>2.5.2</version>  
 </plugin>  
 <plugin>  
 <artifactId>maven-deploy-plugin</artifactId>  
 <version>2.8.2</version>  
 </plugin>  
 </plugins>  
 </pluginManagement>  
 </build>  
</project>

Name - Mahesh