Name: Natasha Maryam

Reg no. bcs\_068

Semester: II-B

**SOURCE CODE FOR STUDENT RESULT MANAGEMANT SYSTEM:**

**For Student Login Frame:**

package dao;

import models.Student;

import utils.DatabaseConnection;

import java.sql.Connection;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.util.ArrayList;

import java.util.List;

public class StudentDAO {

public void addStudent(Student student) {

String query = "INSERT INTO students (student\_id, full\_name, course, marks, grade) VALUES (?, ?, ?, ?, ?)";

try (Connection connection = DatabaseConnection.getConnection();

PreparedStatement stmt = connection.prepareStatement(query)) {

stmt.setString(1, student.getStudentId());

stmt.setString(2, student.getFullName());

stmt.setString(3, student.getCourse());

stmt.setInt(4, student.getMarks());

stmt.setString(5, student.getGrade());

stmt.executeUpdate();

} catch (SQLException e) {

e.printStackTrace();

}

}

public List<Student> getAllStudents() {

List<Student> students = new ArrayList<>();

String query = "SELECT \* FROM students";

try (Connection connection = DatabaseConnection.getConnection();

PreparedStatement stmt = connection.prepareStatement(query);

ResultSet rs = stmt.executeQuery()) {

while (rs.next()) {

Student student = new Student();

student.setId(rs.getInt("id"));

student.setStudentId(rs.getString("student\_id"));

student.setFullName(rs.getString("full\_name"));

student.setCourse(rs.getString("course"));

student.setMarks(rs.getInt("marks"));

student.setGrade(rs.getString("grade"));

students.add(student);

}

} catch (SQLException e) {

e.printStackTrace();

}

return students;

}

// Other CRUD methods (update, delete, get by id, etc.)

}

**For Admin Login Frame:**

package views;

import javax.swing.\*;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

public class AdminLoginFrame extends JFrame {

private JTextField usernameField;

private JPasswordField passwordField;

public AdminLoginFrame() {

setTitle("Admin Login");

setSize(300, 200);

setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

JPanel panel = new JPanel();

panel.setLayout(null);

JLabel usernameLabel = new JLabel("Username:");

usernameLabel.setBounds(10, 20, 80, 25);

panel.add(usernameLabel);

usernameField = new JTextField(20);

usernameField.setBounds(100, 20, 160, 25);

panel.add(usernameField);

JLabel passwordLabel = new JLabel("Password:");

passwordLabel.setBounds(10, 50, 80, 25);

panel.add(passwordLabel);

passwordField = new JPasswordField(20);

passwordField.setBounds(100, 50, 160, 25);

panel.add(passwordField);

JButton loginButton = new JButton("Login");

loginButton.setBounds(10, 80, 80, 25);

panel.add(loginButton);

add(panel);

loginButton.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

String username = usernameField.getText();

String password = new String(passwordField.getPassword());

// Perform authentication logic here using DAO classes

// Example: AdminDAO adminDAO = new AdminDAO();

// boolean authenticated = adminDAO.authenticate(username, password);

// Example logic for now

if (username.equals("admin") && password.equals("password")) {

new AdminPanelFrame();

dispose();

} else {

JOptionPane.showMessageDialog(null, "Invalid login");

}

}

});

setVisible(true);

}

public static void main(String[] args) {

new AdminLoginFrame();

}

}