SUPERSET ID-6413402

MVC PATTERN

// Model

class Student {

private String name;

private int id;

private String grade;

public Student(String name, int id, String grade) {

this.name = name;

this.id = id;

this.grade = grade;

}

public String getName() { return name; }

public int getId() { return id; }

public String getGrade() { return grade; }

public void setName(String name) { this.name = name; }

public void setGrade(String grade) { this.grade = grade; }

}

// View

class StudentView {

public void displayStudentDetails(String name, int id, String grade) {

System.out.println("Student: " + name + " | ID: " + id + " | Grade: " + grade);

}

}

// Controller

class StudentController {

private Student model;

private StudentView view;

public StudentController(Student model, StudentView view) {

this.model = model;

this.view = view;

}

public void setStudentName(String name) { model.setName(name); }

public void setStudentGrade(String grade) { model.setGrade(grade); }

public void updateView() {

view.displayStudentDetails(model.getName(), model.getId(), model.getGrade());

}

}

// Test

public class TestMVC {

public static void main(String[] args) {

Student model = new Student("Ravi", 101, "A");

StudentView view = new StudentView();

StudentController controller = new StudentController(model, view);

controller.updateView();

controller.setStudentGrade("A+");

controller.updateView();

}

}

OUTPUT:

Student: Ravi | ID: 101 | Grade: A

Student: Ravi | ID: 101 | Grade: A+

