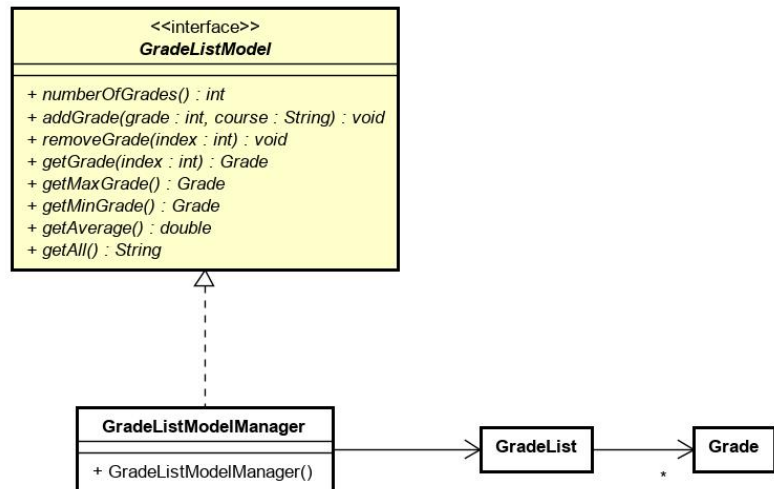# Exercises, SDJ1

Exercise: GradeList - Model and Model Manager

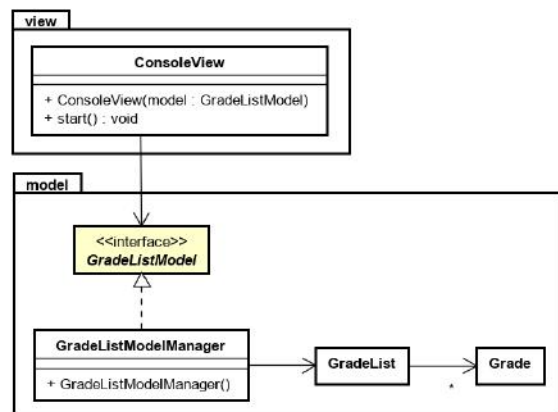Create a Module in IntelliJ and copy files `Grade` and `GradeList` from your latest `GradeList` exercise.

- Create the interface `GradeListModel` with the methods as shown in the class diagram
- Create class `GradeListModelManager` implementing the interface. The class has association to `GradeList` (an instance variable of type `GradeList`). Most methods just delegates to this instance variable.
- Move all classes into a package `model`.

Exercise: GradeList - ConsoleView

Modify the last exercise and create a class `ConsoleView` (in package `view`). The class has

- Association to `GradeListModel` (instance variable of type `GradeListModel`)
- A constructor setting the model instance variable
- A `start` method having a loop with:
  - A menu with input for each of the methods from the interface
  - A switch to execute what to do for each menu item

Exercise: GradeList - The main method

Create the following class with a main method, and run it

```java
import model.GradeListModel;
import model.GradeListModelManager;
import view.ConsoleView;

public class TestGradeList
{
  public static void main(String[] args)
  {
    GradeListModel model = new GradeListModelManager();
    ConsoleView view = new ConsoleView(model);
    view.start();
  }
}
```