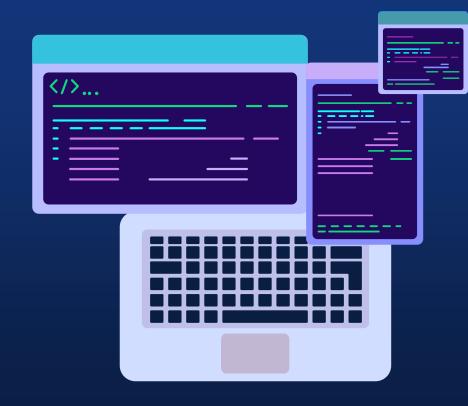
Software Design and Important concepts



Mentor: Einar Rocha

CONTENT



0100P Pillars

Inheritance, Polymorphism Encapsulation, Abstraction

O3

Single Responsibility
Open closed
Liskov Substitution
Interface Segregation
Dependency Inversion



Meaningful Names, Functions, Unit test Code Smells...

Q4Design patterns

Singleton, Factory Method Strategy, Observer Builder...





O3
SOLID



Purpose



To create understandable, readable, and testable code that many developers can collaboratively work on.



Agenda

The Single-Responsibility Principle

The Open/Closed Principle

Responsibility...

Open for extension Closed for modification



The Single-Responsibility Principle



A class should have only one reason to change

Report

- + printReport()
- + getReportData()
- + formatReport()

printReposrt()

Pdf UI?

getReporData()

XML

JSON

CSV

Database?

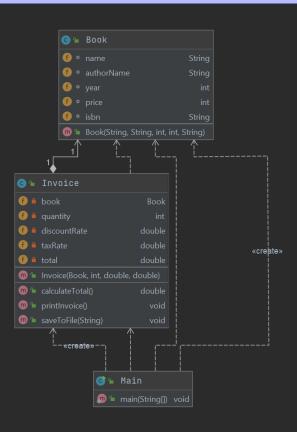
formatReport()

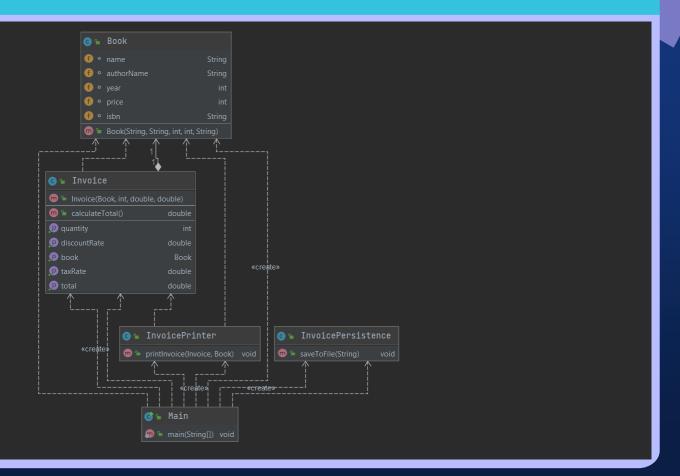
UI

HTML

XLS?







The Open/Closed Principle



