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Mastering the SOLID Principles

Writing understandable, maintainable, and flexible code

Overview

Principle	Name	Purpose
S	Single Responsibility Principle (SRP)	A class should have only one reason to change.
0	Open/Closed Principle (OCP)	Entities open for extension, but closed for modification.
L	Liskov Substitution Principle (LSP)	Subtypes must be substitutable for their base types.
ı	Interface Segregation Principle (ISP)	Clients should not be forced to depend on methods they do not use.
D	Dependency Inversion Principle (DIP)	High-level modules should not depend on low-level modules. Both should depend on abstractions.

S - Single Responsibility Principle (SRP)

Every class should focus on doing only one thing.

A practical example is implemented. Interested users can click here to review the material and get handson to the principle.

O - Open/Closed Principle (OCP)

Open for extension but closed for modification.

In other words, able to add new features without changing old code. An example is provided to compare the effect of using O-principle and without using it. In addition, highlighted the concept of abstract method.

L - Liskov Substitution Principle (LSP)

Subclasses must be substitutable without any changes to their base class.

The dataloader example is continued and being applied each principle step-by-step. The L-principle is applied to the taken example. A comprison results are presented here. Moreover, a discussion to static method is also provided at the end.

Additional information

It is a self-explanatory tutorial on SOLID principle. Any new concept used in the tutoral are discussed in detail.

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- Abstract method
- Static method