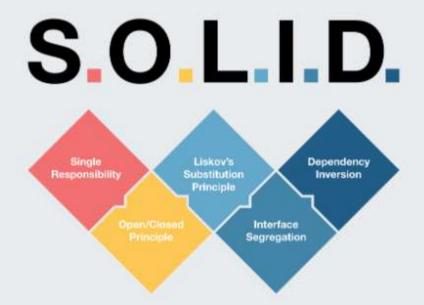
Open-Closed Principle



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1. What is Open-Closed Principle (OCP)

- 1. An entity `(e.g., classes, modules, functions, etc.)` should be open for extension but closed for modification. This means you should be able to add new functionality without changing the existing code.
- 2. Extend functionality by adding new code instead of changing existing code.
- 3. Goal: Get to a point where you can never break the core of your system.
- 4. Importance: `OCP` encourages a more stable and resilient codebase. It promotes the use of `interfaces` and `abstract classes` to allow for behaviours to be extended without modifying existing code.
- 5. Writing code structure in such a way new functionality can be added by adding new code not by modifying existing code.
- 6. OPEN for extending and CLOSE for modification

In One Statement:

The Open-Closed Principle states that classes should be open for extension but closed for modification. This means that the behaviour of a class should be extendable without modifying its source code.

Key Idea:

Once a class is written, it should be closed for modifications but open for extensions.

Real-Time Examples:

1. Your smartphone - you don't open it up to add features; you just download apps to extend its capabilities.

How can Open-Close Principle be applied?

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