Dependency Inversion Principle

S.O.L.I.D.

Part 6

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What is Dependency Inversion Principle (DIP)

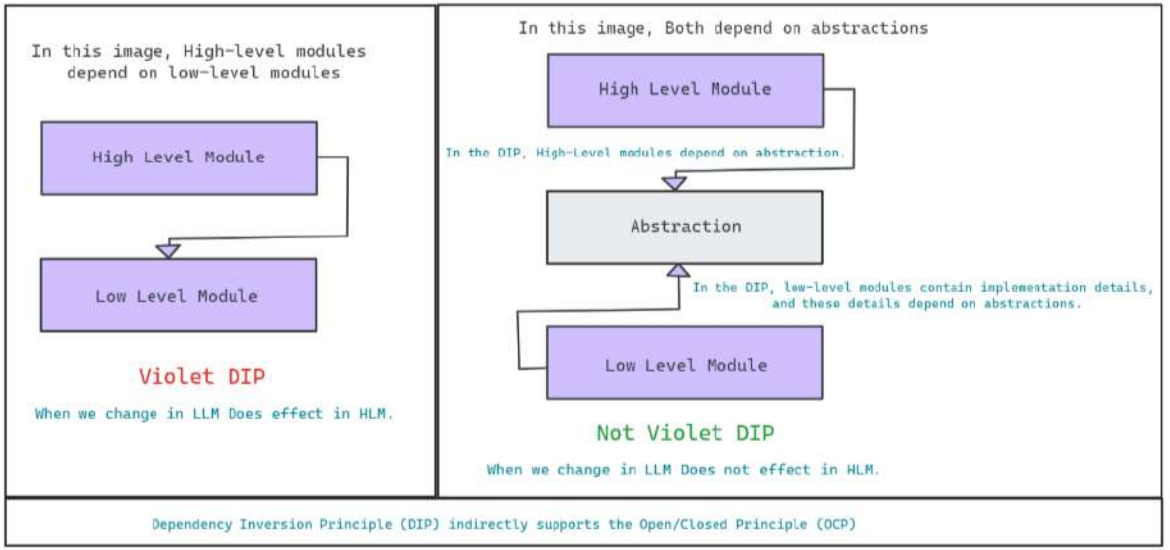
1. Never depend on everything **concrete(Actual Class)**, only depend on **Abstraction**.
2. High level module should not depend on **low level module**. They should depend on Abstraction.
3. Able to change an implementation easily without altering the high level code.
4. By adhering to **DIP**, you can create systems that are resilient to change, as modifications to concrete implementations do not affect **high-level modules**.

In One Statement

*The Dependency Inversion Principle suggests that **high-level modules** should not depend on **low-level modules**, but both should depend on abstractions. Additionally, abstractions should not depend on details; details should depend on abstractions.*

Key Idea

1. ***High-level modules** should not depend on **low-level modules**; both should depend on abstractions.*
2. ***Abstractions** should not depend on **details**. Details should depend on abstractions.*



Real-Time Examples

- *Building a **LEGO tower** – the bricks **(high and low-level modules)** connect through smaller bricks **(abstractions)**.*

How can Interface Segregation Principle be applied?

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Practical Coding Examples in Java #1
Practical Coding Examples in Java #2
Practical Coding Examples in Java #3
*Much more about **Dependency Inversion Principle***