

SOLID

S → Single Responsibility Principle (SRP)

O → Open / closed Principle (OCP)

L → Liskov Substitution Principle (LSP)

I → Interface Segregation Principle (ISP)

D → Dependency Inversion Principle (DIP)

Single Responsibility Principle

One person → One job

SRP reduces the impact of change.

Open / closed Principle

Don't break old things when adding new features.

OCP avoids modifying stable code.

Liskov Substitution Principle

If it looks like a thing, it should behave like that thing.

Subclasses must not break parent behavior.

Interface Segregation Principle

Don't force someone to do things they don't need.

Small interfaces reduce coupling.

Dependency Inversion Principle

Depend on contracts, not concrete things.

DIP improves testability and flexibility

→ Spring Framework

Spring is built around Dependency Inversion Using
IOC containers.

→ Netflix

Netflix applies SOLID at microservices boundaries.

→ Amazon

Amazon's payment system follows Open-closed
principle to support rapid extension.

→ Android

Android APIs follow Interface Segregation with
listener-based design.