

Spring Framework

Spring Framework is one of the most widely used frameworks in Java Enterprise Edition. Developers all over the world use Spring to build reliable and high-quality applications.

Spring

Java Enterprise application or web application framework is spring.

- It is used to develop enterprise or web application.
- It is implementation of Inversion of Control (IOC).
- It is used to manage components for an application (Dao/Repository, Services, Beans, Controller, etc).
- It is an important integration technology.

Spring Core Concepts (DI, IoC, AOP)

- One of the most important concepts in the Spring Framework is understanding **Dependency Injection (DI)** and **Inversion of Control (IoC)**.
- **Dependency Injection (DI):**
It is a design pattern used to implement Inversion of Control (IoC), where the dependencies (objects that a class needs) are provided (injected) to the class from the outside instead of the class creating them itself.
The term can be broken into two parts:
Dependency: Refers to an object that another object depends on. This is usually defined during compile-time, meaning a class depends on another class.
Injection: Refers to the process of passing the dependency to the dependent object at runtime, meaning an object is injected into another object.
- **Inversion of Control (IoC):**
It is a design principle where the control of object creation and dependency management is given to the spring container instead of being manually handled by the developer.