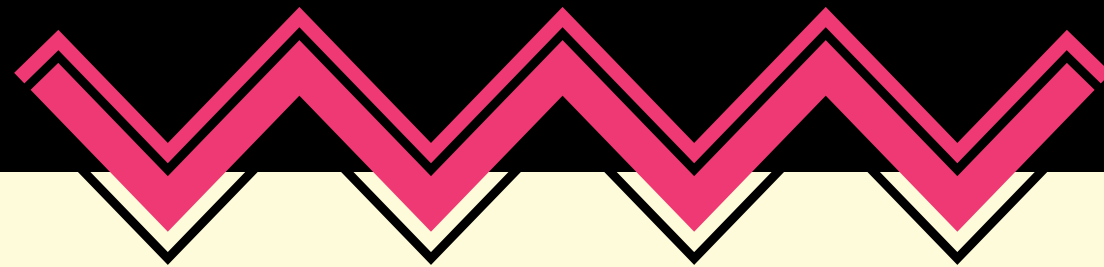


🌱 EXPLORING
SPRING BEANS:
THE HEART OF
DEPENDENCY
INJECTION! 🌱

Start

WHAT IS SPRING BEAN?



Spring Beans are the objects that form the backbone of a Spring application. These are managed by the Spring IoC (Inversion of Control) container, which means that instead of manually creating and managing objects, Spring does it for us! 🙌🙌

WHY SPRING BEANS



Dependency Injection

Spring handles the creation and injection of beans, making our code more modular and easier to maintain.



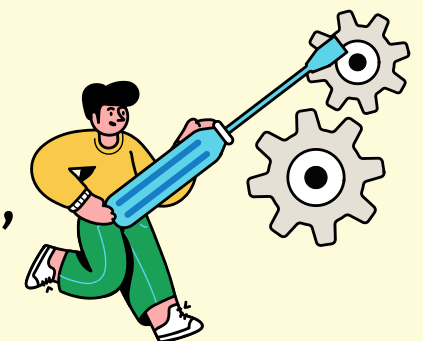
Lifecycle Management

The Spring container manages the entire lifecycle of beans—from initialization to destruction—based on the configuration.



Loose Coupling

By relying on interfaces and dependency injection, Spring beans allow us to write loosely coupled code, making applications more flexible and easier to extend.



Easy Configuration

Beans can be configured in XML, annotations, or Java code, offering flexibility in how we set up our applications.

HERE'S A SIMPLE JAVA-BASED CONFIGURATION EXAMPLE FOR A SPRING BEAN

AppConfig.java

```
@Configuration
public class AppConfig {
    @Bean
    public DevelopmentEnvironment developmentEnvironment() {
        return new DevelopmentEnvironment("Ubuntu",
            "IntelliJ", "GIT", "Maven", "MySQL", "JUnit",
            "AWS", "SonarQube", "Log4j", "Vagrant");
    }
}
```



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