KODEROOM

Spring Boot

An Open Source Java Based Framework

Spring Boot

Spring Boot makes it easy to create production-ready Spring based Applications that you can "just run".

With Starter template, get started with minimum fuss.

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Main Features

QUICK START

It's easy to create stand-alone, production-grade Spring based Applications that you can "just run"

PRODUCTION READY

Provide production-ready features such as metrics, health checks and externalized configuration

SIMPLIFIED DEPENDENCY

Provide opinionated 'starter' dependencies to simplify your build configuration

AUTO CONFIGURATION

Automatically configure Spring and 3rd party libraries whenever possible

Main Features Cont

AVOID COMPLEX XML

Absolutely no code generation and no requirement for XML configuration

EMBED TOMCAT

Embed Tomcat, Jetty or Undertow directly (no need to deploy WAR files)

MICROSERVICE BASED

Develop and deploy services independently.

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Spring Initializer

A quickstart generator for Spring projects
https://start.spring.io

Generates a Spring Boot Project Structure
Provides Maven/Gradle based build configuration
Does't generate Application Code

Starter Template

Spring Boot starters are templates that contain a collection of all the relevant transitive dependencies that are needed to start a particular functionality. For example -

spring-boot-starter-web
spring-boot-starter-data-jdbc

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Maven Dependency

spring-boot-starter
spring-boot-starter-web
spring-boot-starter-data-jdbc
spring-boot-starter-aop
spring-boot-starter-autoconfigure

Spring boot Auto configure

Autoconfiguration is enabled with @**EnableAutoConfiguration** annotation. Spring boot auto configuration scans the classpath, finds the libraries in the classpath and then attempt to guess the best configuration for them, and finally configure all such beans.

Embedded server

Spring boot applications always include tomcat as embedded server dependency. It means you can run the Spring boot applications from the command prompt without needling complex server infrastructure.

You can exclude tomcat and include any other embedded server if you want. Or you can make exclude server environment altogether. It’s all configuration based.

Bootstrap the application

To run the application, we need to use **@SpringBootApplication** annotation. Behind the scenes, that's equivalent to **@Configuration**, **@EnableAutoConfiguration**, and **@ComponentScan** together.

It enables the scanning of config classes, files and load them into spring context. In below example, execution start with **main**() method. It start loading all the config files, configure them and bootstrap the application based on application properties in **application.properties** file in /**resources** folder.

Bootstrap the application

```
@SpringBootApplication
public class MyApplication {
    public static void main(String[] args) {
      SpringApplication.run(Application.class, args);
    }
}
```

Contact Us

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