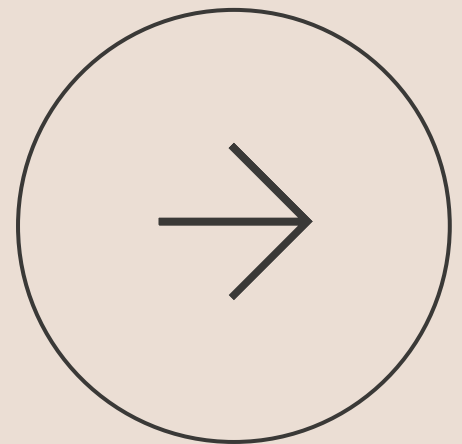


Core Concept of Spring boot

@MILAPMAGAR



1. Spring Boot Auto-Configuration

SPRING BOOT AUTO-CONFIGURATION IS A POWERFUL FEATURE THAT AUTOMATICALLY CONFIGURES YOUR SPRING APPLICATION BASED ON THE DEPENDENCIES PRESENT ON THE CLASSPATH.

- **HOW IT WORKS:** AUTO-CONFIGURATION CLASSES ARE DEFINED IN THE SPRING-BOOT-AUTOCONFIGURE MODULE. THESE CLASSES USE CONDITIONS (E.G., IF A SPECIFIC CLASS IS PRESENT ON THE CLASSPATH) TO CONFIGURE BEANS AUTOMATICALLY.
- **EXAMPLE:** IF SPRING-BOOT-STARTER-WEB IS ON THE CLASSPATH, SPRING BOOT AUTO-CONFIGURES A DISPATCHERSERVLET, RESOURCEHANDLERS, AND OTHER BEANS NEEDED TO SET UP A WEB APPLICATION.

2. Spring Boot Starter Dependencies

Spring Boot Starters are a set of convenient dependency descriptors that you can include in your application. They bring a set of transitive dependencies to your project, making it easy to get started with various Spring technologies.

1) **Purpose:** To simplify dependency.

2) **Example:** spring-boot-starter-web includes dependencies for building web applications, such as Spring MVC, Tomcat, Jackson, etc.

3. Spring Boot CLI

Spring Boot Command Line Interface (CLI) is a command-line tool that allows you to quickly prototype with Spring. It uses Groovy scripts for fast development.

Features:

- 1) Quick Prototyping
- 2) Testing and automation

4. Spring Initializr

Spring Initializr is a web-based tool to bootstrap your Spring Boot project with the necessary dependencies and configurations. It generates a Maven or Gradle project with your specified settings.

Summary

- **Auto-Configuration:** Minimizes manual configuration by providing defaults based on dependencies.
- **Starters:** Pre-configured dependency sets for various functionalities.
- **CLI:** Command-line tool for quick prototyping with Spring.
- **Initializr:** Web-based tool to generate Spring Boot projects.
- **Embedded Server:** Runs applications standalone with embedded servers.
- **Testing:** Facilitates testing with annotations and tools.
- **Security:** Integrates with Spring Security for application security.

Follow for more updates



@milapeeeyyyy



@Milap-Magar