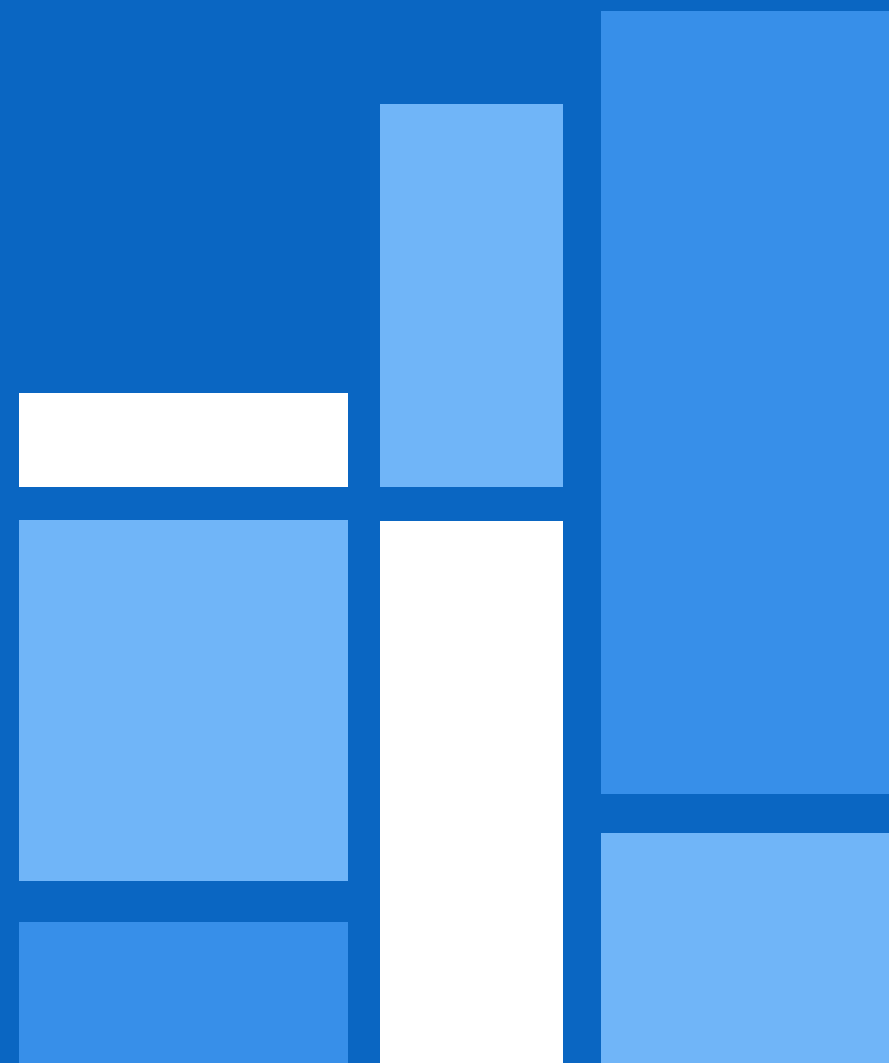


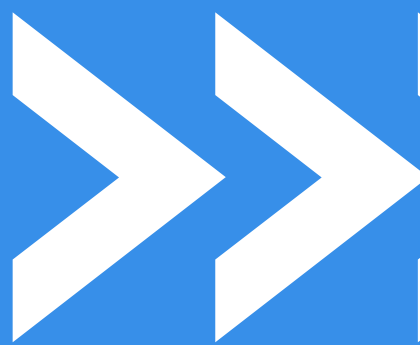


10 Basic terms of Spring boot that you come across as a Developer

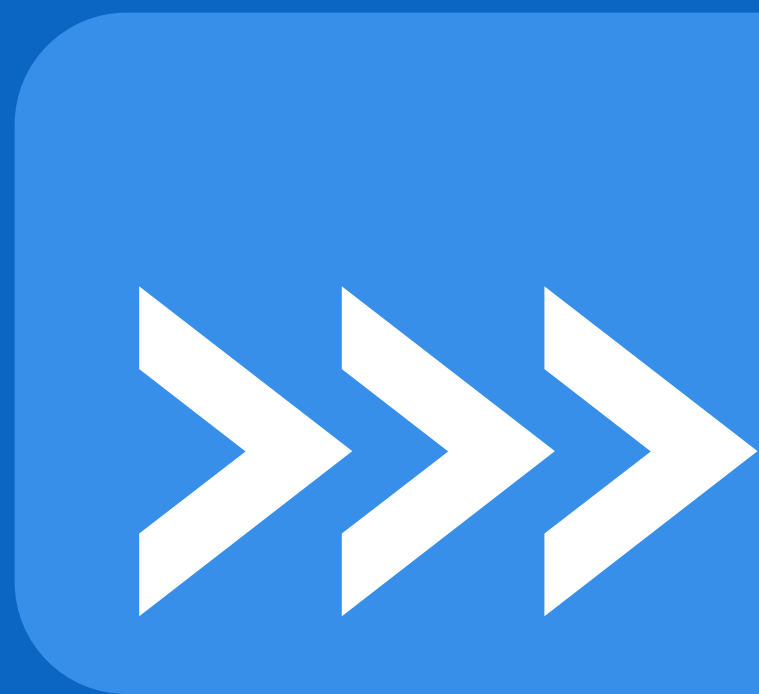


1. Starter

- A Spring Boot Starter is a pre-configured set of dependencies that are typically integrated with **build tools** like Maven or Gradle.
- Simplifies the dependency management process.



A Sample Gradle file with starters

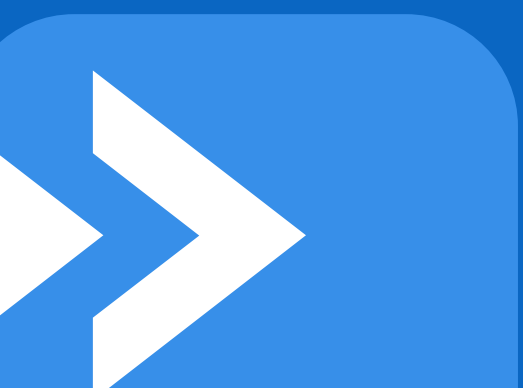


```
dependencies {  
    implementation  
    'org.springframework.boot:spring-boot-  
starter-data-jdbc'  
    implementation  
    'org.springframework.boot:spring-boot-  
starter-data-jpa'  
    implementation  
    'org.springframework.boot:spring-boot-  
starter-jdbc'  
    developmentOnly  
    'org.springframework.boot:spring-boot-  
devtools'  
    runtimeOnly 'com.mysql:mysql-  
connector-j'  
    runtimeOnly  
    'com.oracle.database.jdbc:ojdbc8'  
    testImplementation  
    'org.springframework.boot:spring-boot-  
starter-test'  
}
```



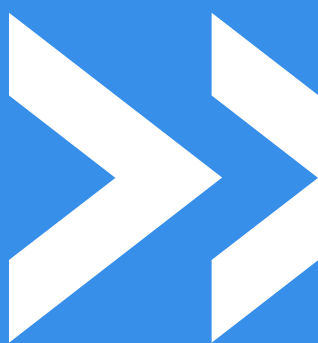
2. Auto-configuration

- Spring Boot uses auto-configuration to automatically configure the application based on the dependencies present in the classpath
- Reduces the need for explicit configuration.



3. Actuator

A set of production-ready features that provides insights into the running application, including metrics, health checks.



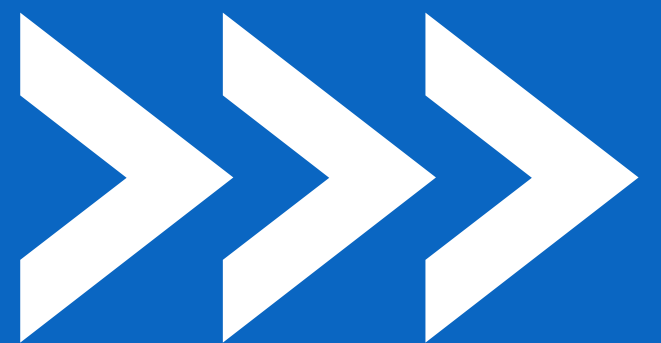


```
dependencies {  
    implementation  
    'org.springframework.boot:spring-boot-  
starter-actuator'  
    developmentOnly  
    'org.springframework.boot:spring-boot-  
devtools'  
    testImplementation  
    'org.springframework.boot:spring-boot-  
starter-test'  
}
```



4. Spring Boot CLI

The Spring Boot Command Line Interface is a tool that allows developers to quickly create, test, and run Spring Boot applications using a command-line interface.



5. Embedded Container

Spring Boot includes embedded servlet containers like Tomcat, Jetty, or Undertow to run web applications as standalone

JAR files
or WAR files.

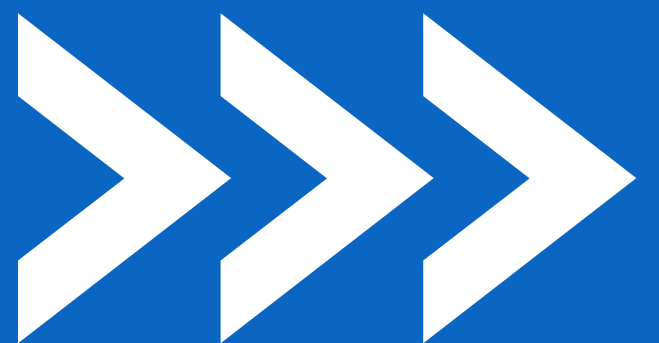


6. Spring Initializr

- A web-based tool or CLI command
- Simplifies project setup by generating a basic Spring Boot project structure with selected dependencies and options.
- Your web-based tool:
<https://start.spring.io/>
- CLI : `spring init`

7. Spring Boot DevTools

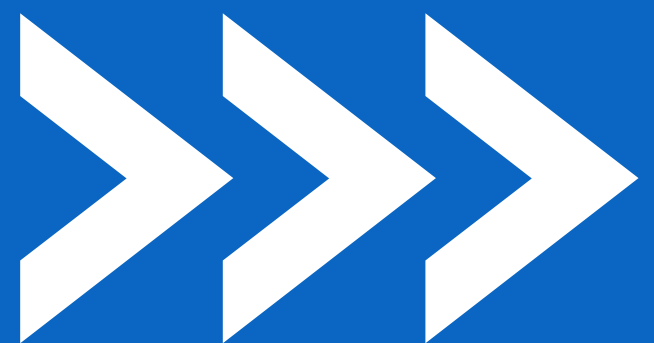
A set of development-time tools that enhance productivity, such as automatic application restarts and live reload of static resources.



```
dependencies {  
    implementation  
    'org.springframework.boot:spring-boot-  
starter'  
    developmentOnly  
    'org.springframework.boot:spring-boot-  
devtools'  
    testImplementation  
    'org.springframework.boot:spring-boot-  
starter-test'  
}
```

8. Spring Boot Data

- The Spring Data module integrated with Spring Boot.
- Simplifies data access by providing consistent data repositories and other data-related features.



9. YAML Configuration

- Spring Boot allows you to configure application properties using YAML files.
- YAML is a human-friendly data serialization language for all programming languages.
- Provides human readable alternative to traditional properties files.

10. Spring Boot Profiles

- Profiles allow you to define sets of configuration properties that can be activated based on the application's environment .
- Enables easy configuration for different deployment scenarios.



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