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Practical Application Development with Spring BOOT

Module 3: Básico de uma aplicação Spring Boot

Agenda

- **Revisão do Spring Essentials**
- Spring BooT - Overview
- Spring BooT – Introduction;
- Spring BooT – Components;
- Spring BooT – Features;
- Funcionamento;
- Construção de aplicação;

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Module Objectives

- Ao final deste modulo você saberá:
  - O que é Spring Boot 3.0.
  - Instalar o STS.
  - Desenvolver uma pequena API.

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Básico de uma aplicação Spring Boot

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O que é Spring initializr?

spring initializr

Project
- Gradle - Groovy
- Gradle - Kotlin
- Maven

Language
- Java
- Kotlin
- Groovy

Spring Boot
- 4.0.0 (SNAPSHOT)
- 4.0.0 (M2)
- 3.5.6 (SNAPSHOT)
- 3.5.5
- 3.4.10 (SNAPSHOT)
- 3.4.9

Project Metadata

Group	acc.br
Artifact	MeuPrimeiroApp
Name	MeuPrimeiroApp
Description	Demo project for Spring Boot
Package name	acc.br.MeuPrimeiroApp
Packaging	Jar / War
Java	24 / 21 / 17

Dependencies ADD DEPENDENCIES... CTRL + B

Spring Web WEB
Build web, including RESTful, applications using Spring MVC. Uses Apache Tomcat as the default embedded container.

GENERATE CTRL + ⏎ | EXPLORE CTRL + SPACE | ...

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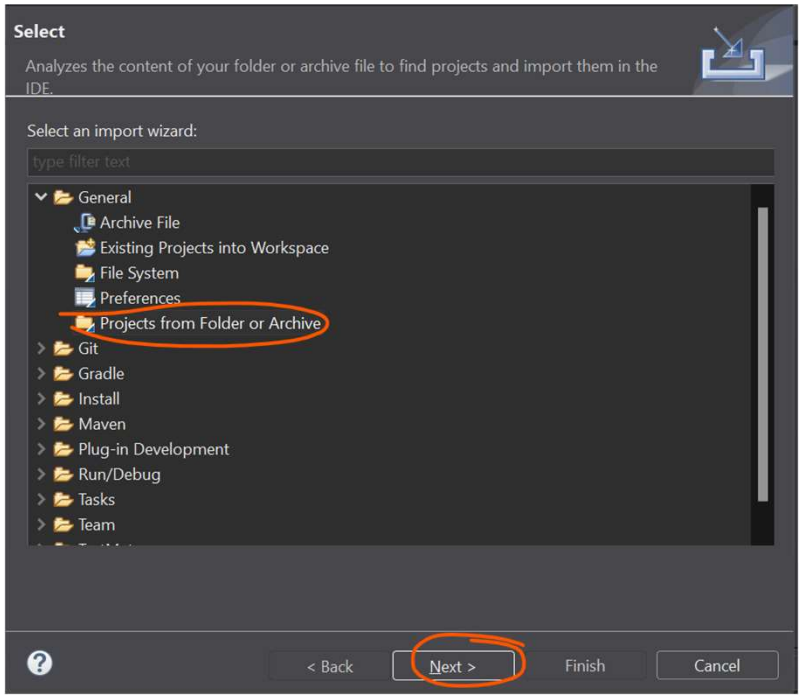
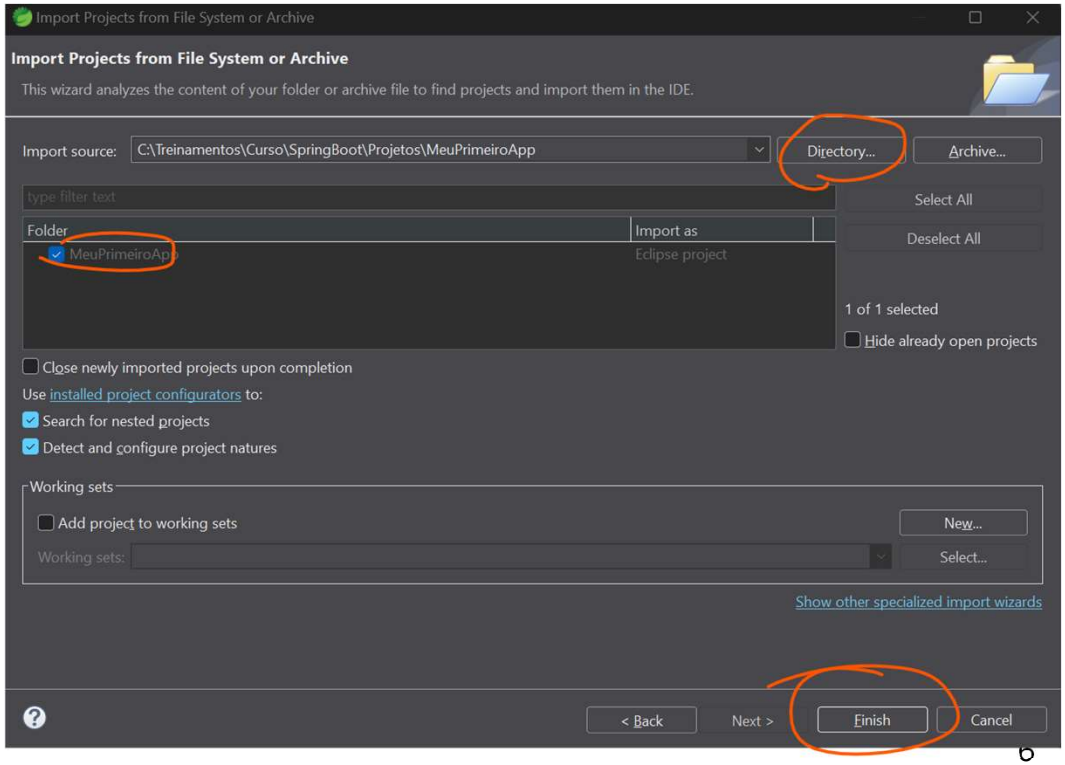
Importar o .ZIP

Após o Download, descompatar o arquivo .zip

Menu file-> Import… -> General -> Project From folder or achive





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Spring Boot

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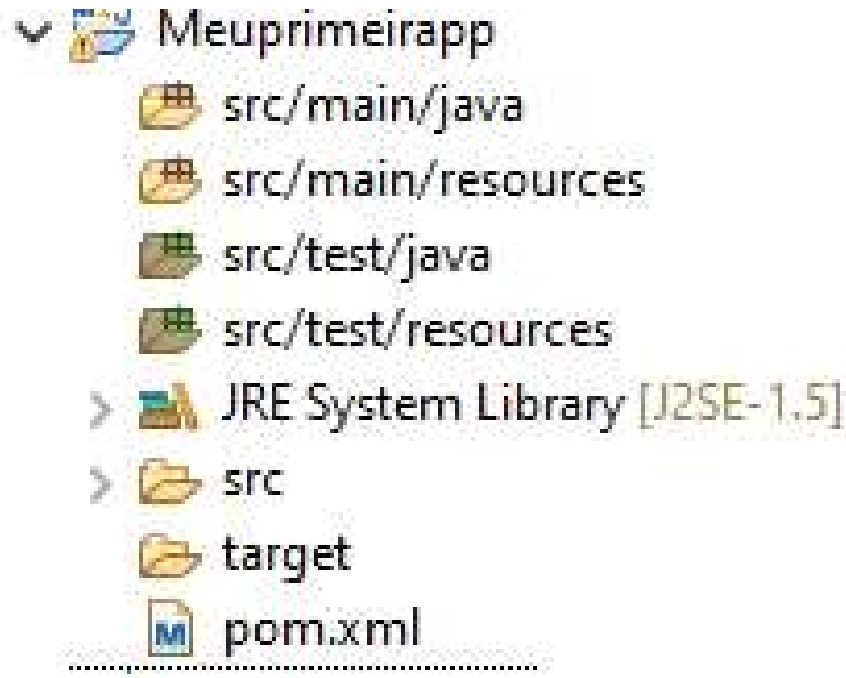
pom.xml



Meuprimeirapp/pom.xml

```
Meuprimeirapp/pom.xml
http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.c
  <modelVersion>4.0.0</modelVersion>
  <groupId>acc.springboot</groupId>
  <artifactId>Meuprimeirapp</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <name>Meu primeiro app spring Boot</name>
  <description>Um exemplo do @sprigBootApplication annotation</description>
</project>
```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Spring Boot

2f486967682070657266f726d616e63652e2044656c6976657265642e2f486967682070657266f726d616e63652e2044656c6976657265642e2f486967682070657266f726d616e63652e2044656c6976657265642e2f486967682070657266f726d616e63652e2044656c6976657265642e2f486967682070657266f726d616e63652e2044656c6976657265642e2f486967682070

```java
package acc.br.springboot;

import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;

//Anotação do Spring MVC que indica que nossa classe é um controller web que aceita
@RestController
//Esta anotação ativa o recurso de configuração automática do módulo de inicializac
@SpringBootApplication
public class Myapplication {

    @RequestMapping("/") // Anotação do Spring MVC que provê informação sobre rotea
    String home() {
        return "Hello World!";
    }

    public static void main(String[] args) {
        SpringApplication.run(Myapplication.class, args);
    }

}
```


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Spring Boot

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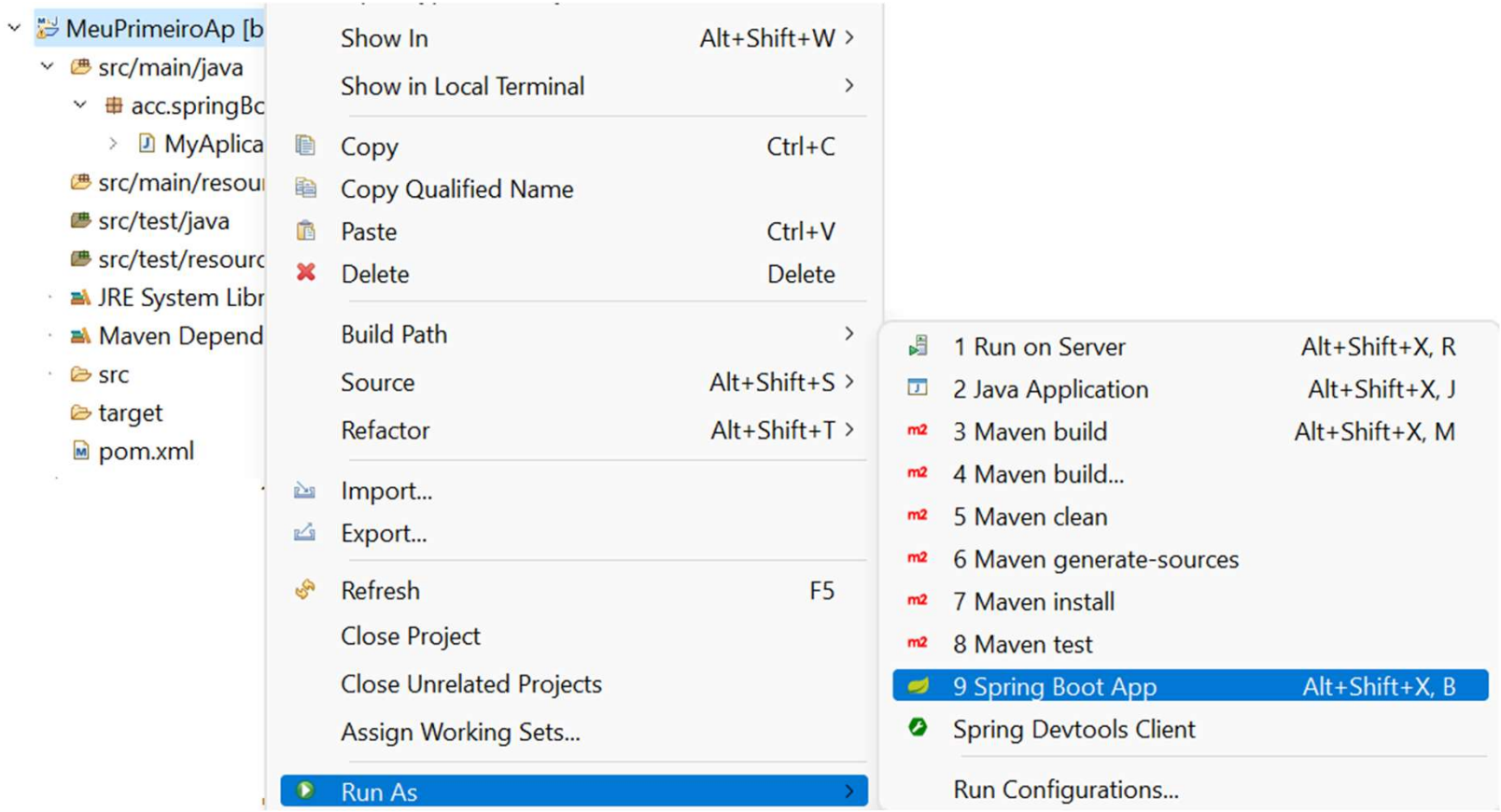

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Spring Boot

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```
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 =========|_|==============|___/=/_/_/_/
 :: Spring Boot ::                (v2.5.2)

2023-03-15 13:04:21.455  INFO 34144 --- [           main] acc.springBoot.MyAplication              : Starting MyAplication using Java 11.0.1
2023-03-15 13:04:21.460  INFO 34144 --- [           main] acc.springBoot.MyAplication              : No active profile set, falling back to
2023-03-15 13:04:23.199  INFO 34144 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat initialized with port(s): 8080 (
2023-03-15 13:04:23.221  INFO 34144 --- [           main] o.apache.catalina.core.StandardService   : Starting service [Tomcat]
2023-03-15 13:04:23.221  INFO 34144 --- [           main] org.apache.catalina.core.StandardEngine  : Starting Servlet engine: [Apache Tomcat
2023-03-15 13:04:23.413  INFO 34144 --- [           main] o.a.c.c.C.[Tomcat].[localhost].[/]       : Initializing Spring embedded WebApplica
2023-03-15 13:04:23.413  INFO 34144 --- [           main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initializat
2023-03-15 13:04:24.147  INFO 34144 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat started on port(s): 8080 (http)
2023-03-15 13:04:24.171  INFO 34144 --- [           main] acc.springBoot.MyAplication              : Started MyAplication in 3.339 seconds (
```

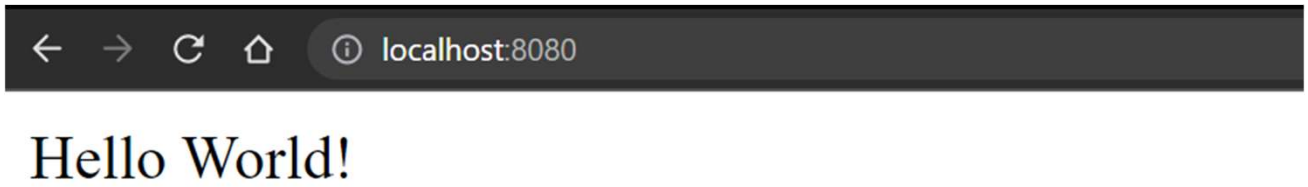

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Spring Boot

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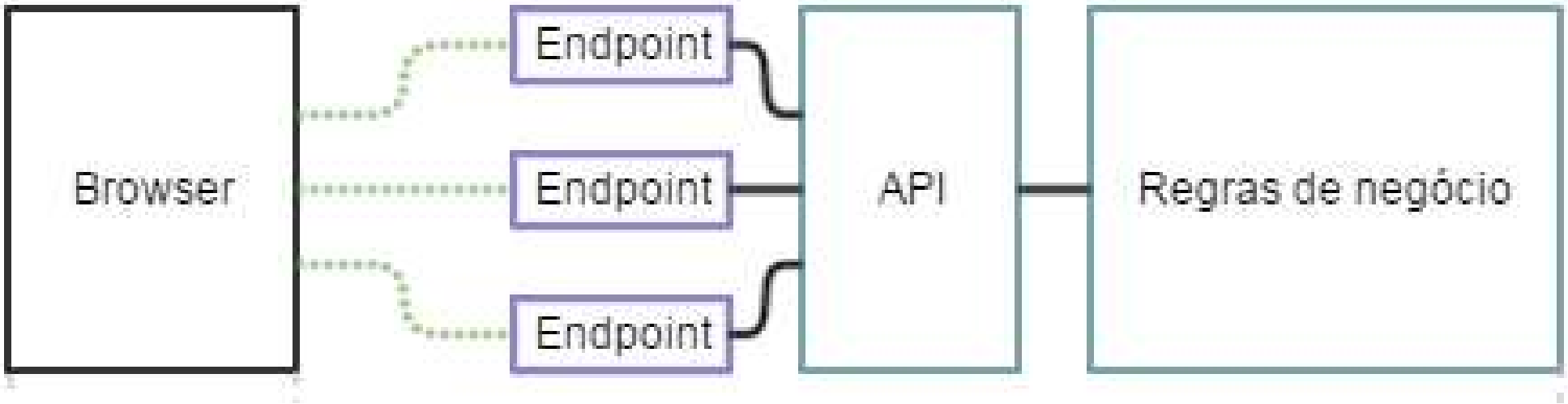
Endpoints – São pontos de acesso a uma aplicação;



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Spring Boot

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@PostMapping("/hello"); @RequestMapping(value="/hello", RequestMethod.POST)

@GetMapping("/hello"); @RequestMapping(value="/hello", RequestMethod.GET)

@PutMapping("/hello"); @RequestMapping(value="/hello", RequestMethod.PUT)

@DeleteMapping("/hello"); @RequestMapping(value="/hello", RequestMethod.DELETE)

```
@PostMapping
public String helloPost() {
    return "hello post";
}
```

```
@PutMapping
public String helloGet() {
    return "hello put";
}
```

```
@GetMapping
public String hello() {
    return "hello";
}
```

```
@DeleteMapping
public String helloDelete() {
    return "hello delete";
}
```


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Spring Boot

2f486967682070657266f726d616e63652e2044656c6976657265642e2f486967682070657266f726d616e63652e2044656c6976657265642e2f486967682070657266f726d616e63652e2044656c6976657265642e2f486967682070657266f726d616e63652e2044656c6976657265642e2f486967682070657266f726d616e63652e2044656c6976657265642e2f486967682070

@SpringBootApplicaton = @Configuration + @ComponentScan + @EnableAutoConfiguration

É uma combinação das seguintes anotações e prove a funcionalidade de todas elas em uma única linha de código;

@RestController = **@Controller + @ResponseBody** ;

Essa anotação é aplicada a uma classe para marcá-la como um manipulador de solicitação.

@RequestMapping é uma das anotações mais comuns usadas em aplicativos da Web Spring.

É uma anotação Spring que nos permite mapear solicitações HTTP com métodos que gostaríamos de executar

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Questions and Comments

- What questions or comments do you have?

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