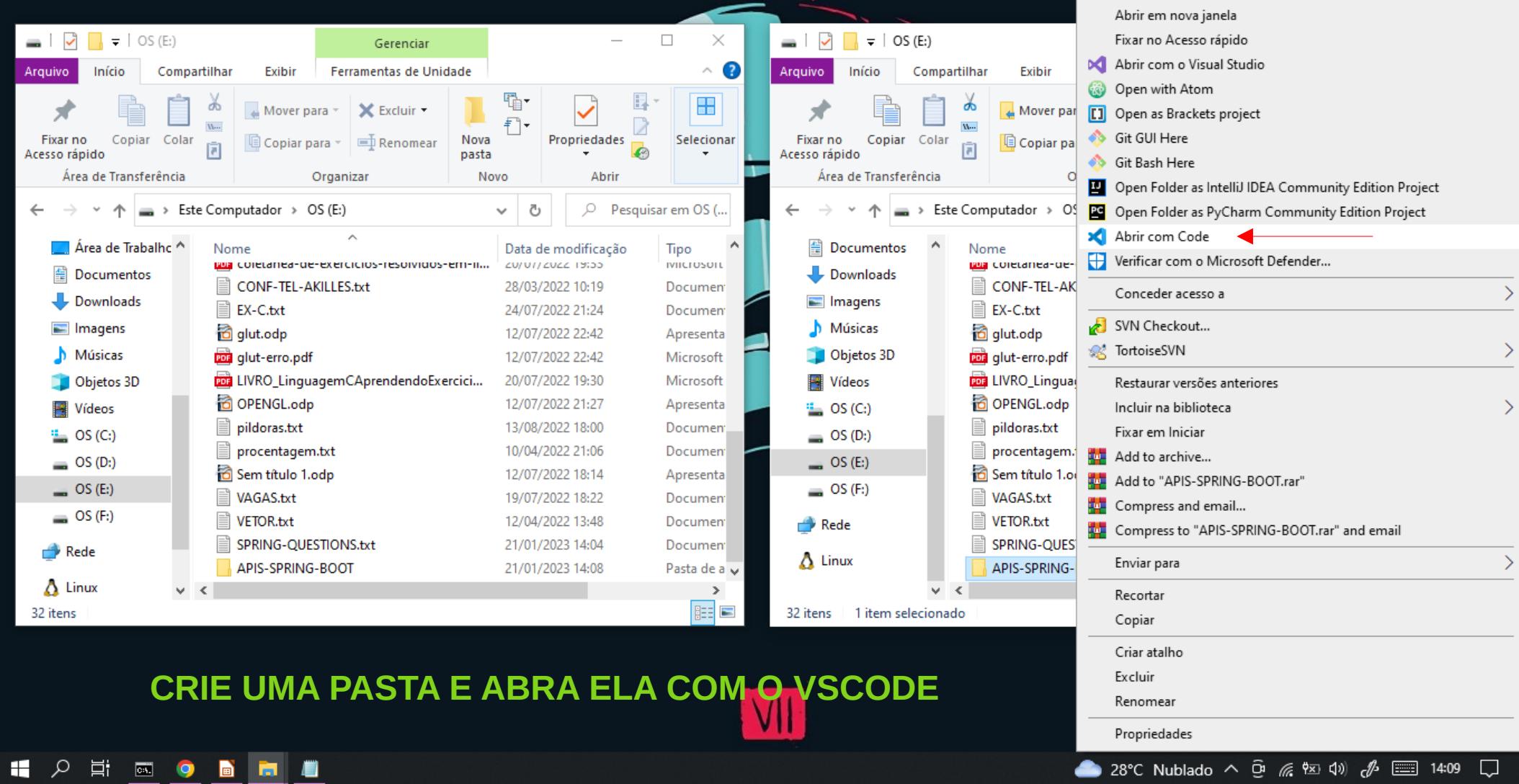
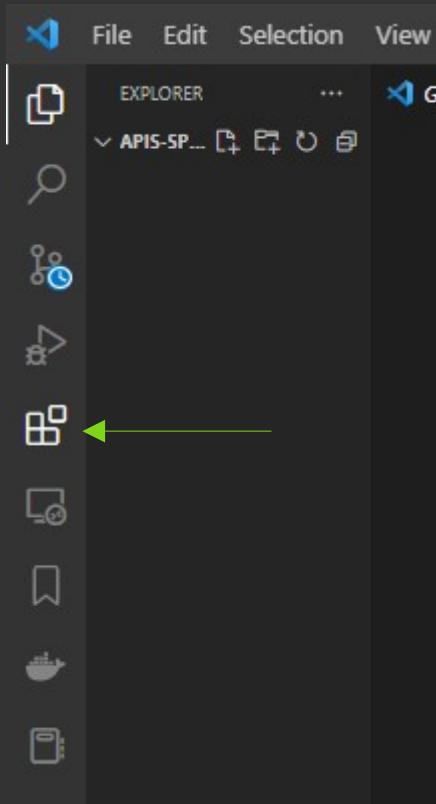


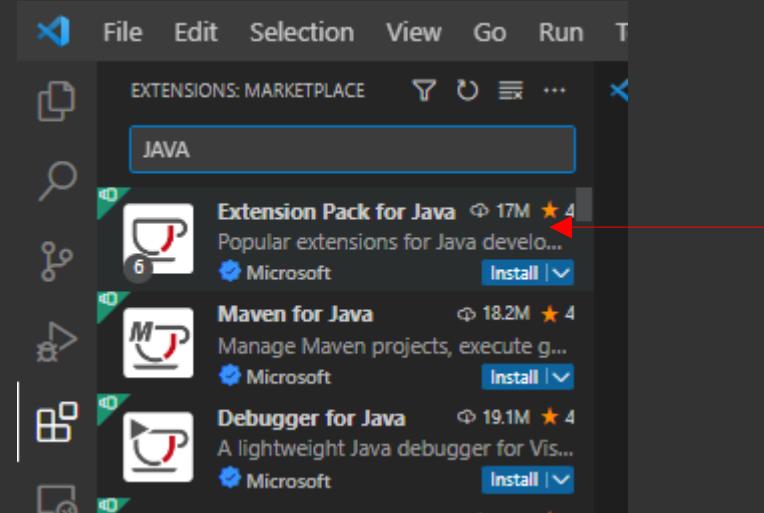
**JAVA SPRING BOOT
2023
NANO**

CONFIGURANDO O VISUAL ESTUDIO CODE



INSTALANDO AS EXTENSÕES NECESSÁRIAS







File Edit Selection View Go Run

Terminal Help

Extension: Extension Pack for Java - APIS-SPRING-BOOT - Visual Studio Code



EXTENSIONS: MARKETPLACE

JAVA

- Extension Pack for Java** ⚡ 17M ★ 4
Popular extensions for Java development
Microsoft [Install](#) | [View details](#)
- Maven for Java** ⚡ 18.2M ★ 4
Manage Maven projects, execute goals...
Microsoft [Install](#) | [View details](#)
- Debugger for Java** ⚡ 19.1M ★ 4
A lightweight Java debugger for Visual Studio Code
Microsoft [Install](#) | [View details](#)
- Project Manager for Java** ⚡ 17M ★ 4
Manage Java projects in Visual Studio Code
Microsoft [Install](#) | [View details](#)
- Test Runner for Java** ⚡ 17.5M ★ 4
Run and debug JUnit or TestNG tests in Visual Studio Code
Microsoft [Install](#) | [View details](#)
- Language Support for Java** ⚡ 21.2M ★ 3.5
Java Linting, Intellisense, formatting, refactoring, and more
Red Hat [Install](#) | [View details](#)
- Spring Initializr Java Extension** ⚡ 2M ★ 3.5
A lightweight extension based on Spring Initializr
Microsoft [Install](#) | [View details](#)
- Java Language Support** ⚡ 1.4M ★ 3
Java support using the Java Compiler API
George Fraser [Install](#)
- Java Debugger** ⚡ 724K ★ 3.5
Java Debugger (break points, variable inspection, step into/step over)

Extension: Extension Pack for Java



Extension Pack for Java

v0.25.7

Preview

Microsoft | ⚡ 17,062,063

★★★★★ (54)

Popular extensions for Java development that provides Java IntelliSense, debugging, testing, Maven/Gradle support, project management, and more.

[Install](#) | [View details](#)

Details

Feature Contributions

Changelog

Extension Pack (6)



IntelliCode

AI-assisted development
Microsoft



Language Support for Java(TM) by Red Hat

Java Linting, Intellisense, formatting, refactoring, and more
Red Hat

[Install](#) | [View details](#)



Debugger for Java

A lightweight Java debugger for Visual Studio Code
Microsoft



Maven for Java

Manage Maven projects, execute goals, generate reports, and more
Microsoft

[Install](#) | [View details](#)

Extension Pack for Java

Extension Pack for Java is a collection of popular extensions that can help write, test and debug Java applications in Visual Studio Code. Check out [Java in VS Code](#) to get started.

Categories

Programming Languages | Snippets

Linters | Debuggers | Format

Extension Packs

Extension Resources

Marketplace

Repository

License

Microsoft

More Info

Published 9/27/2017, 06:30 AM

Last released 11/29/2022, 02:45 PM

File Edit Selection View Go Run Terminal Help

Install New JDK - APIS-SPRING-BOOT - Visual Studio Code

EXTENSIONS: MARKETPLACE JAVA

Install New JDK × Get Started ×

Install New JDK

Adoptium's Temurin Others

Version

- 8 (LTS)
- 11 (LTS)
- 17 (LTS)

JVM

- hotspot

Download
windows-x64
jdk-17.0.6+10 | 180.05 MB

After you finish JDK installation, please reload Visual Studio Code to make it effective.

Reload Window Having trouble?

Get Started with Java Development

Your first steps to set up powerful Java tools in a lightweight, performant editor!

Get your runtime ready
The Extension Pack for Java requires at least one Java runtime to be installed.
Install JDK

Explore your project

Launch, debug and test

Extensions for additional tools and frameworks

**Se for preciso instale o jdk eu já possuia a versão 17
No cmd javac -version
Java -version
Pra saber qual versão**

EXTENSIONS: MARKETPLACE

spring

- Spring Initializr Java Support** ⚡ 2M ★ 3.5
A lightweight extension based on Spring Initializ...
Pivotal [Install](#)
- Spring Boot Tools** ⚡ 1.8M ★ 5
Provides validation and content assist for Spring ...
Pivotal [Install](#)
- Spring Boot Dashboard** ⚡ 1.6M ★ 3.5
Spring Boot Dashboard for VS Code
Microsoft [Install](#)
- Spring Boot Extension Pack** ⚡ 1.3M ★ 5
A collection of extensions for developing Spring ...
Pivotal [Install](#)
- Spring Boot Support** ⚡ 96K ★ 5
Spring Boot properties completion
ecmel [Install](#)
- Java + Spring Extension Pack** ⚡ 53K ★ 5
Some of the most popular and useful Java and S...
Loiane Groner [Install](#)
- Spring Boot Snippets** ⚡ 59K ★ 5
Useful snippets for Spring Boot projects.
Developer Soapbox [Install](#)
- Ra Spring Light Theme** ⚡ 20K ★ 5
Here is the best theme for your eye care!
Rahman Yerli [Install](#)
- Spring Boot Developer Extension ...** ⚡ 28K ★ 5
Useful extensions needed for effectively develop...
Developer Soapbox [Install](#)
- Spring Theme** ⚡ 10K
Spring Theme ported from the Spring TextMate ...
gerane [Install](#)
- Extension Pack for Java** ⚡ 390ms
Popular extensions for Java development that pr...
Microsoft [Install](#)
- Azure Spring Apps** ⚡ 5K ★ 5
An Azure Spring Apps extension for Visual Studi...
Microsoft [Install](#)

Extension: Spring Boot Extension Pack X

Spring Boot Extension Pack v0.2.0

Pivotal | ⚡ 1,375,369 | ★★★★★(13)

A collection of extensions for developing Spring Boot applications

[Install](#)

[Details](#) [Feature Contributions](#)

Extension Pack (3)

- Spring Initializr Java Support** ⚡ 1.3M ★ 5
A lightweight extension based on Spring Init...
Pivotal [Install](#)

Instale essa extensão

Categories

Programming Languages Linters
Extension Packs

Extension Resources

Marketplace Repository Pivotal

More Info

Published 11/28/2017, 17:43:15
Last released 12/14/2022, 10:57:22
Identifier pivotal.vscode-boot-dev-pack

VS Code Spring Boot Application Development Extension Pack

(also known as [Spring Tools 4](#) for Visual Studio Code)

Collection of extensions for developing and deploying Spring Boot Application

Spring Boot

The [Spring Boot Tools](#) extension provides:

- IDE Java tooling for developing and troubleshooting Spring Boot applications.
- Support for editing Spring Boot Application configuration properties files (`.properties` and `.yml`)

Spring Initializr Java

The [Spring Initializr Java Support](#) extension provides support for generating quickstart Spring Boot Java projects with Spring Initializr API.

Spring Boot Dashboard

File Edit Selection View Go Run Terminal Help Extension: Spring Boot Extension Pack - APIS-SPRING-BOOT - Visual Studio Code

EXTENSIONS: MARKETPLACE

spring

Spring Initializr Java Support
A lightweight extension based on Spring Initializ...
Microsoft

Spring Boot Tools
Provides validation and content assist for Spring ...
Pivotal

Spring Boot Dashboard
Spring Boot Dashboard for VS Code
Microsoft

Spring Boot Extension Pack
A collection of extensions for developing Spring ...
Pivotal

Spring Boot Support
Spring Boot properties completion
ecmel [Install](#)

Java + Spring Extension Pack
Some of the most popular and useful Java and S...
Loiane Groner [Install](#)

Spring Boot Snippets
Useful snippets for Spring Boot projects.
Developer Soapbox [Install](#)

Ra Spring Light Theme
Here is the best theme for your eye care!
Rahman Yerli [Install](#)

Spring Boot Developer Extension ...
Useful extensions needed for effectively develop...
Developer Soapbox [Install](#)

Spring Theme
Spring Theme ported from the Spring TextMate ...
gerane [Install](#)

Extension Pack for Java
Popular extensions for Java development that pr...
Microsoft

Azure Spring Apps
An Azure Spring Apps extension for Visual Studi...
Microsoft [Install](#)

Spring Boot Extension Pack v0.2.0

Pivotal | 1,375,369 | ★★★★★(13)

A collection of extensions for developing Spring Boot applications

[Disable](#) [Uninstall](#)

This extension is enabled globally.

Details Feature Contributions

Extension Pack (3)

Spring Initializr Java Support
A lightweight extension based on Spring Init...
Microsoft

Categories

Programming Languages Linters Extension Packs

VS Code Spring Boot Application Development Extension Pack

(also known as [Spring Tools 4](#) for Visual Studio Code)

Collection of extensions for developing and deploying Spring Boot Application

Spring Boot

The [Spring Boot Tools](#) extension provides:

- IDE Java tooling for developing and troubleshooting Spring Boot applications.
- Support for editing Spring Boot Application configuration properties files (`.properties` and `.yml`)

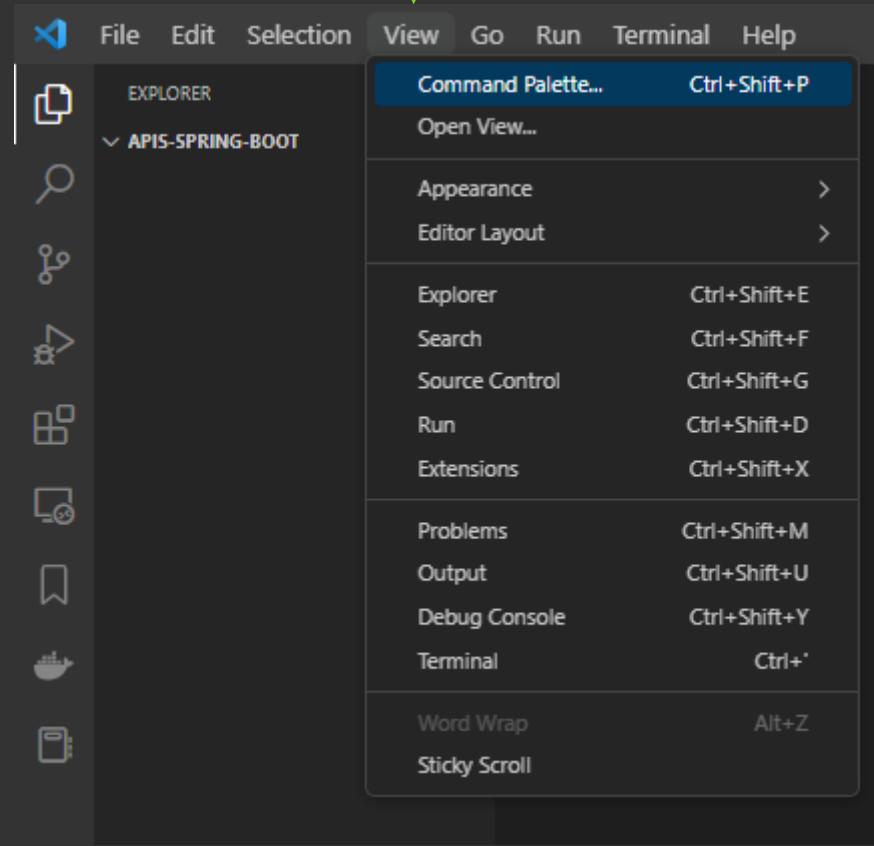
Spring Initializr Java

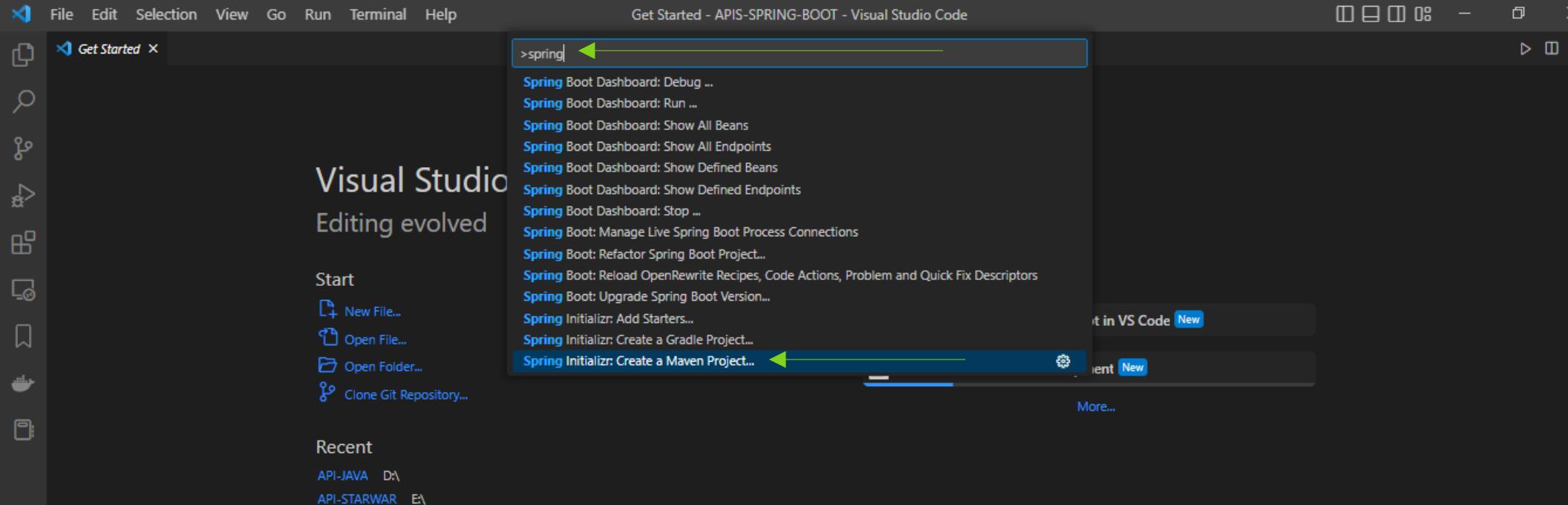
The [Spring Initializr Java Support](#) extension provides support for generating quickstart Spring Boot Java projects with Spring Initializr API.

Spring Boot Dashboard

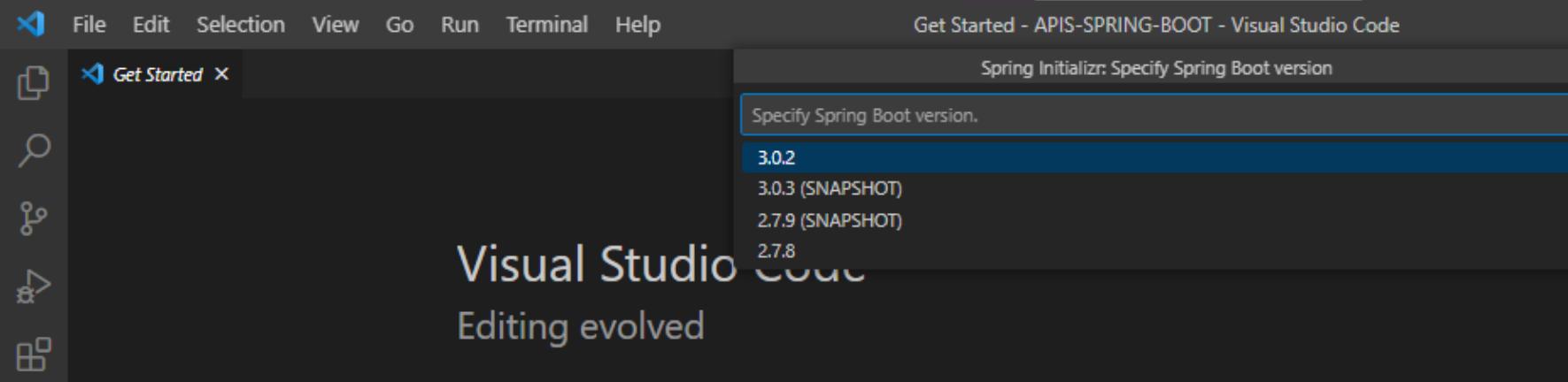
25°C Nublado Go Live 14:22

CRIANDO O PROJETO

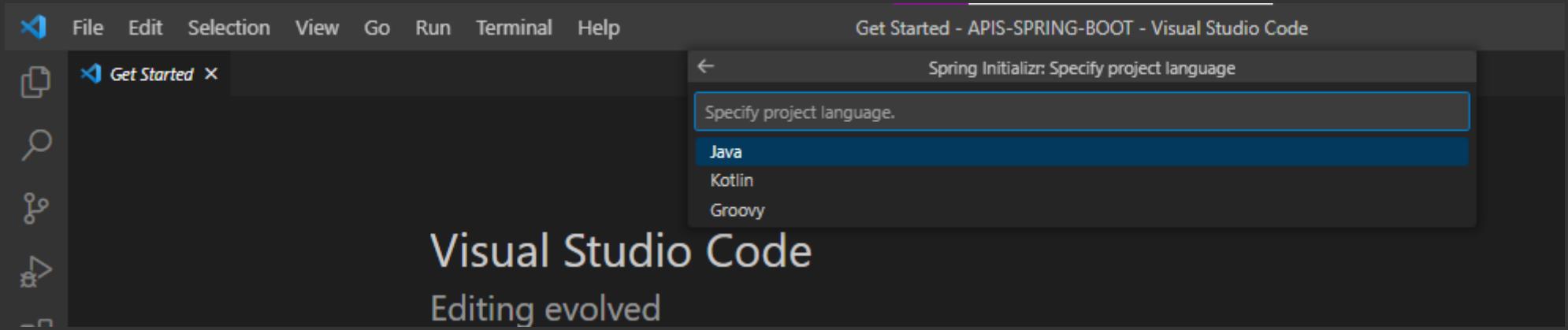




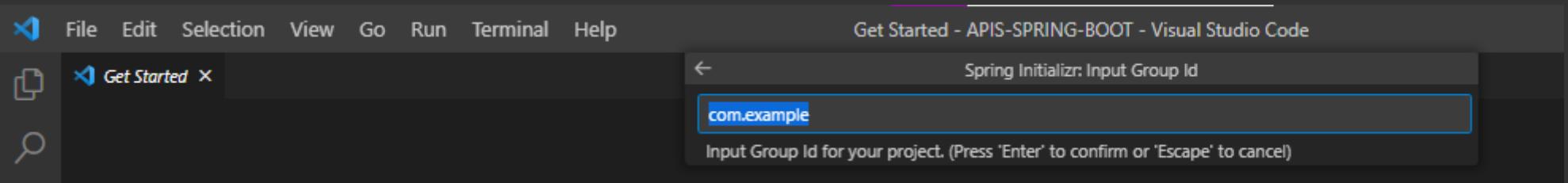
Digite spring e adicione spring initializr do maven
Essa que esta marcada ai



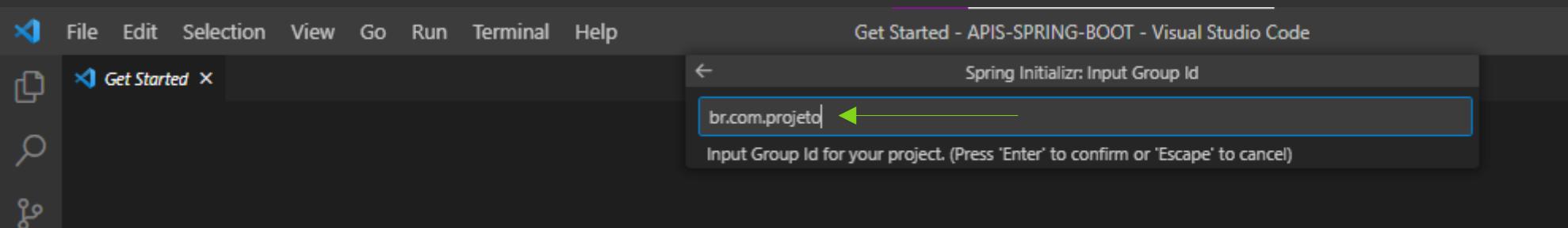
Escolha sua versão nada impede de troca-la mais tarde



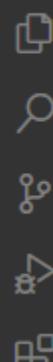
Escolha a linguagem do projeto



Group é o lugar onde vai ficar o projeto



Depois de dar o nome tecle enter



Get Started X



Spring Initializr: Input Artifact Id

demo

Input Artifact Id for your project. (Press 'Enter' to confirm or 'Escape' to cancel)

Visual Studio Code

Editing evolved

De nome ao projeto



Get Started X



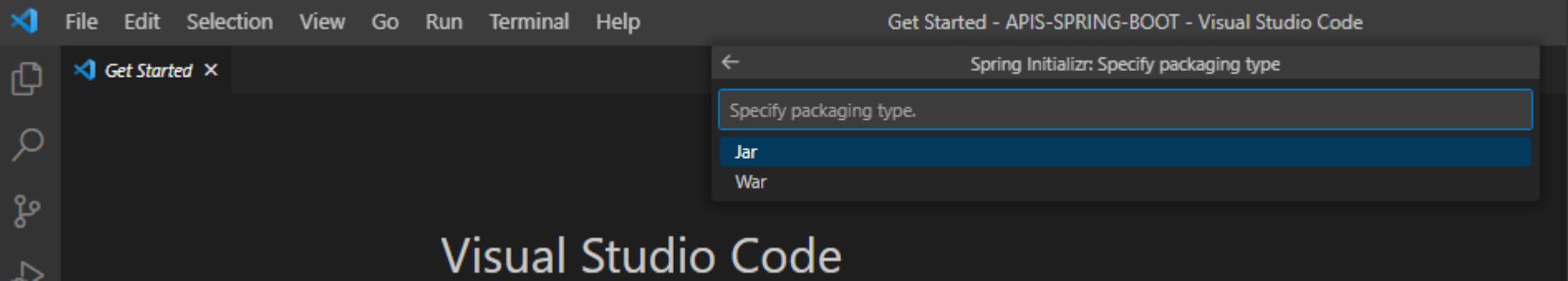
Spring Initializr: Input Artifact Id

api|

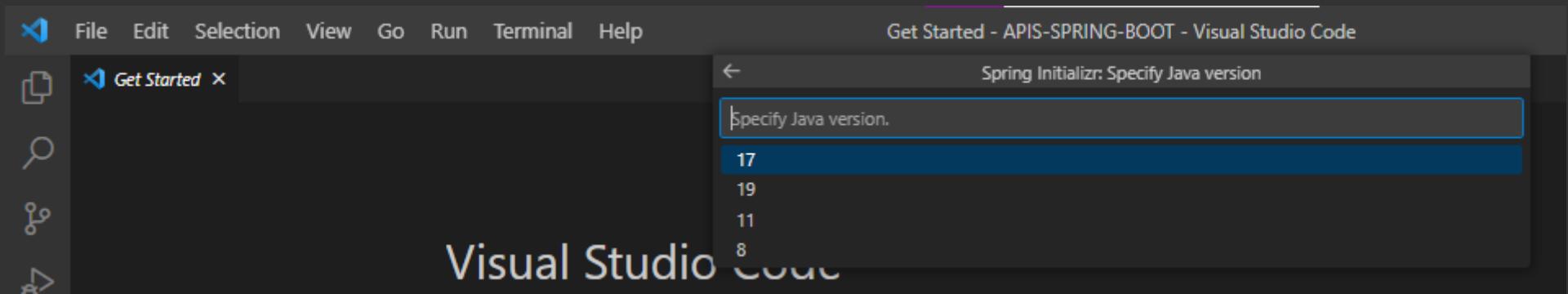
Input Artifact Id for your project. (Press 'Enter' to confirm or 'Escape' to cancel)

Visual Studio Code

Editing evolved



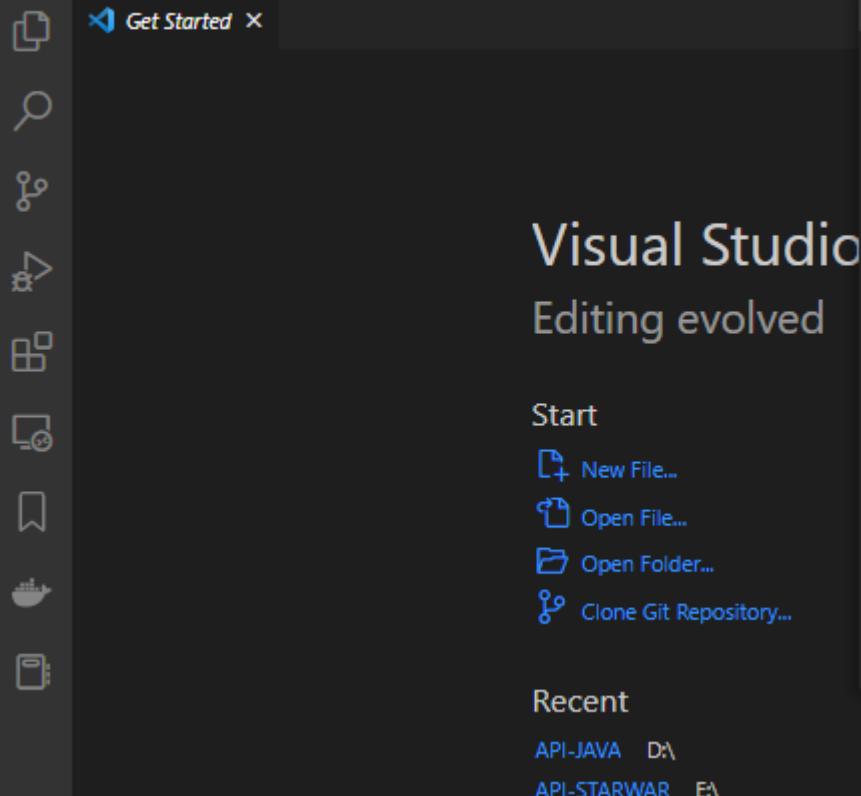
**Defina o empacotamento pra jar isso pode ser mudado
futuramente**



**Escolha a versão compativel com a sua versão de java e do jdk a minha
como disse é a 17 mais nesse ano 2023 já existe a 19**

File Edit Selection View Go Run Terminal Help

Get Started - APIS-SPRING-BOOT - Visual Studio Code



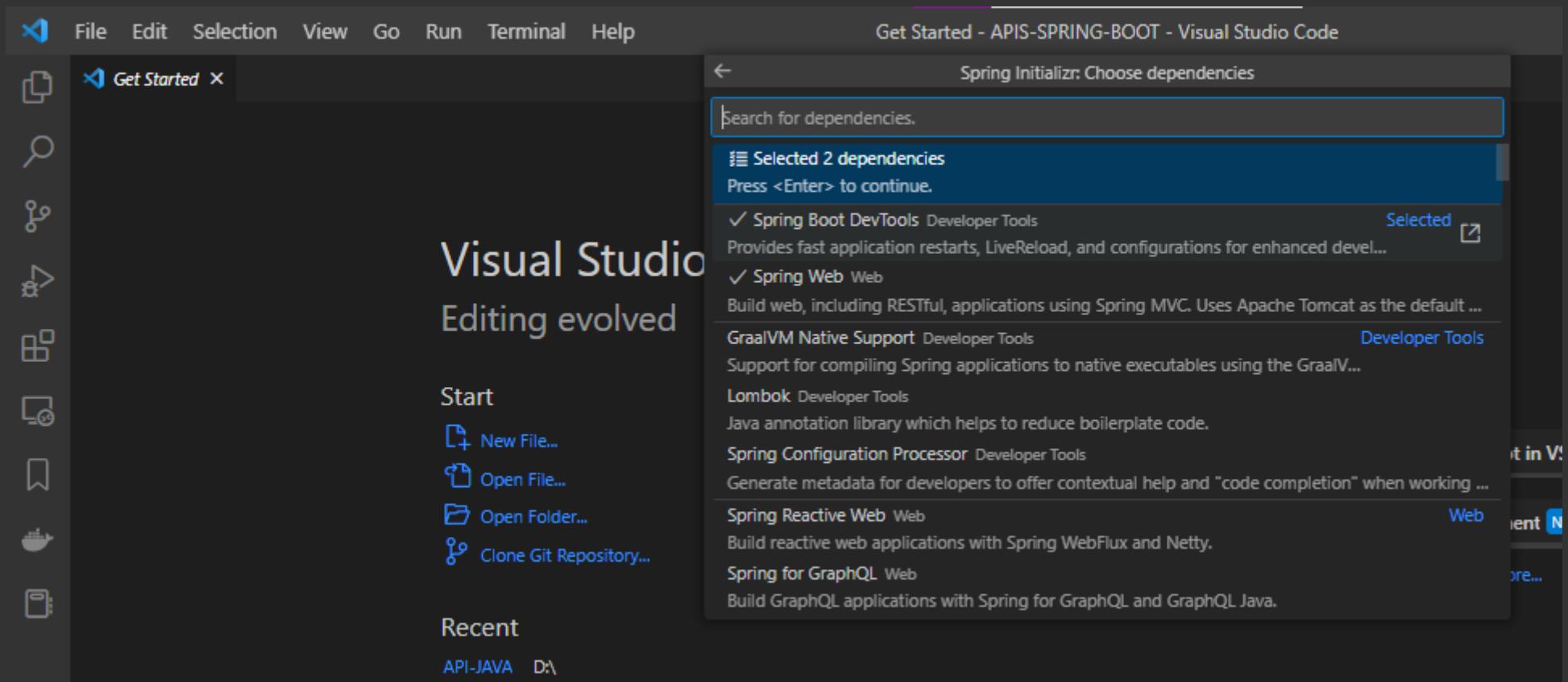
← Spring Initializr: Choose dependencies

Search for dependencies.

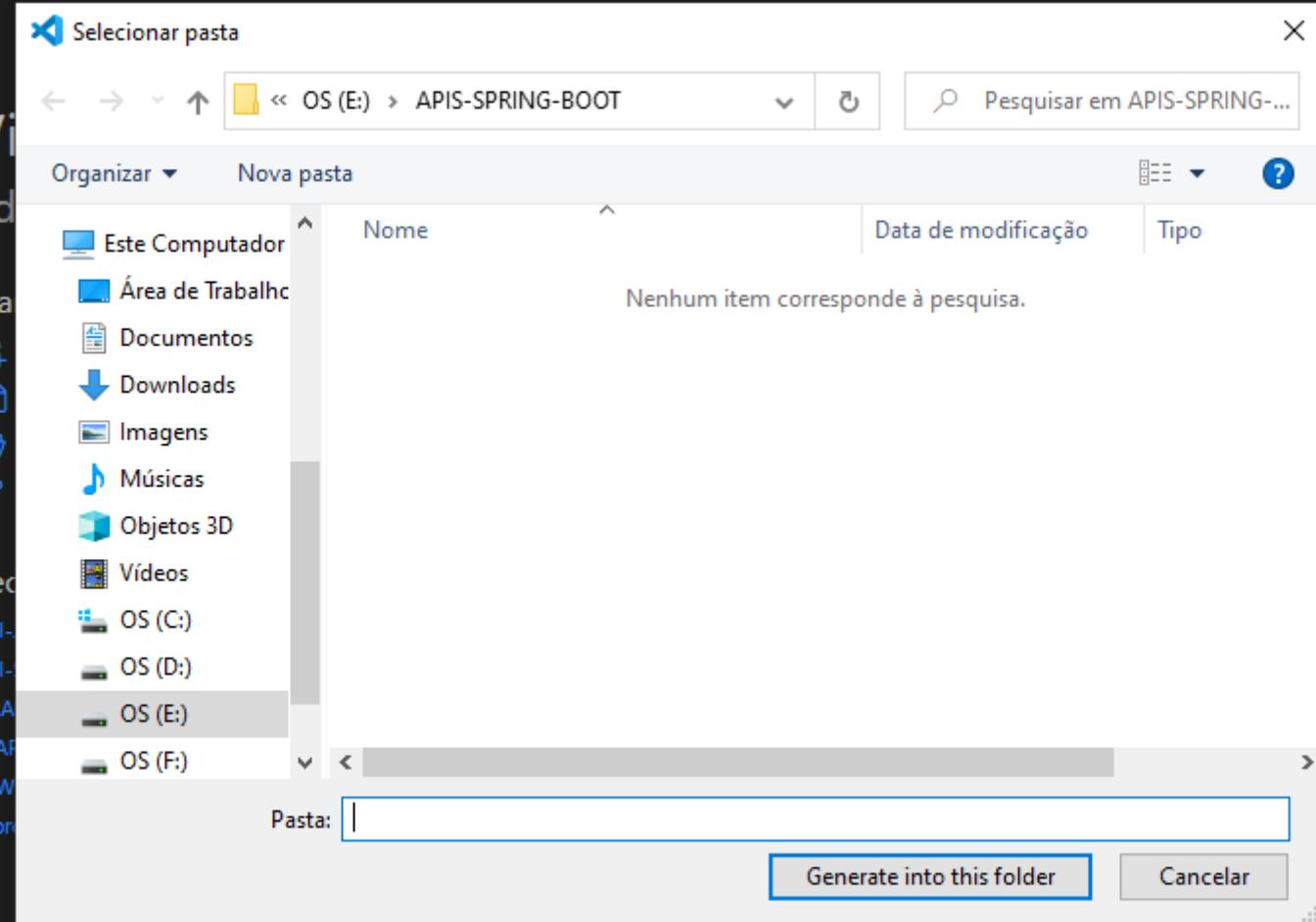
Selected 0 dependencies
Press <Enter> to continue.

GraalVM Native Support	Developer Tools	Developer Tools
Support for compiling Spring applications to native executables using the GraalV...		
Spring Boot DevTools	Developer Tools	
Provides fast application restarts, LiveReload, and configurations for enhanced development expe...		
Lombok	Developer Tools	
Java annotation library which helps to reduce boilerplate code.		
Spring Configuration Processor	Developer Tools	
Generate metadata for developers to offer contextual help and "code completion" when working ...		
Spring Web	Web	Web
Build web, including RESTful, applications using Spring MVC. Uses Apache Tomcat as the def...		
Spring Reactive Web	Web	Web
Build reactive web applications with Spring WebFlux and Netty.		
Spring for GraphQL	Web	Web
Build GraphQL applications with Spring for GraphQL and GraphQL Java.		

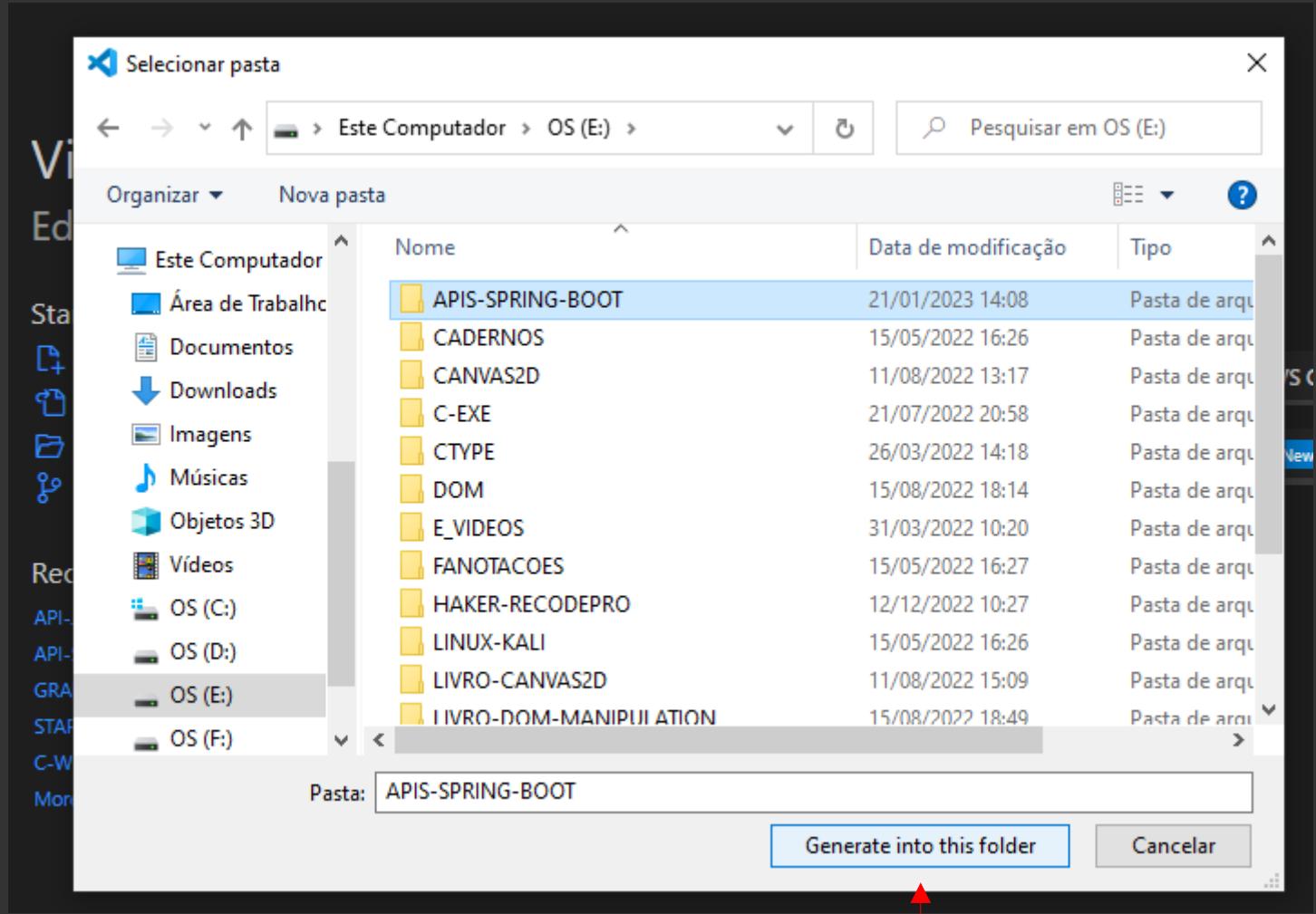
Adicione agora as dependencias do projeto
O que são dependencias? São funções que o spring usa

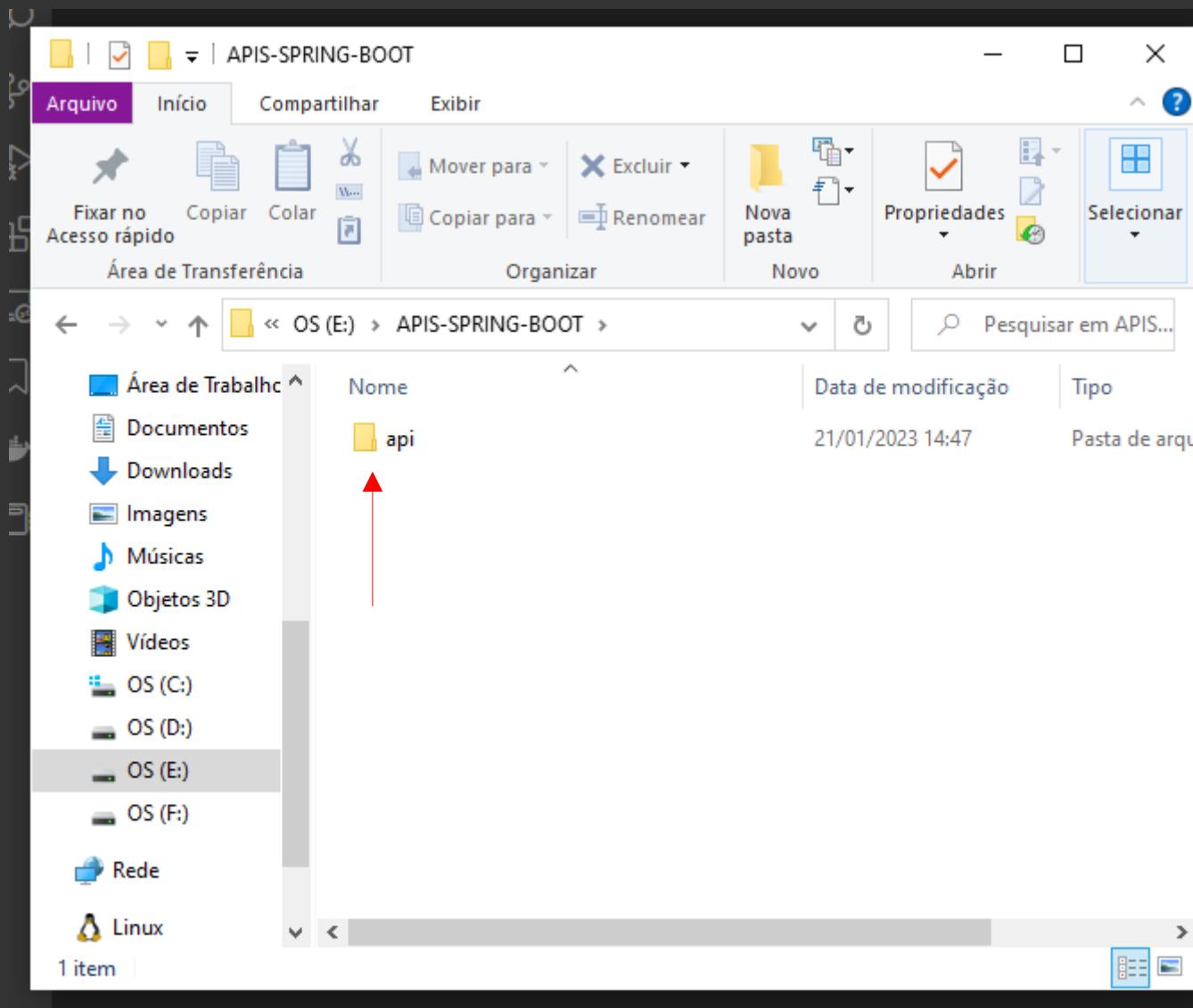


**Click para selecionar spring boot dev tools e spring web
Por fim de enter para selecionar**

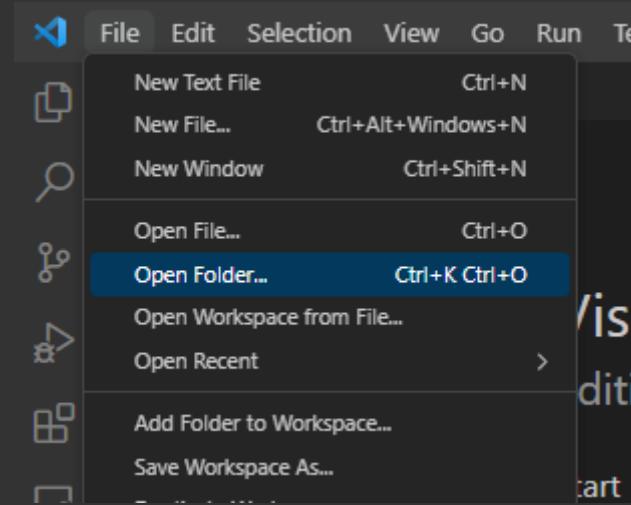


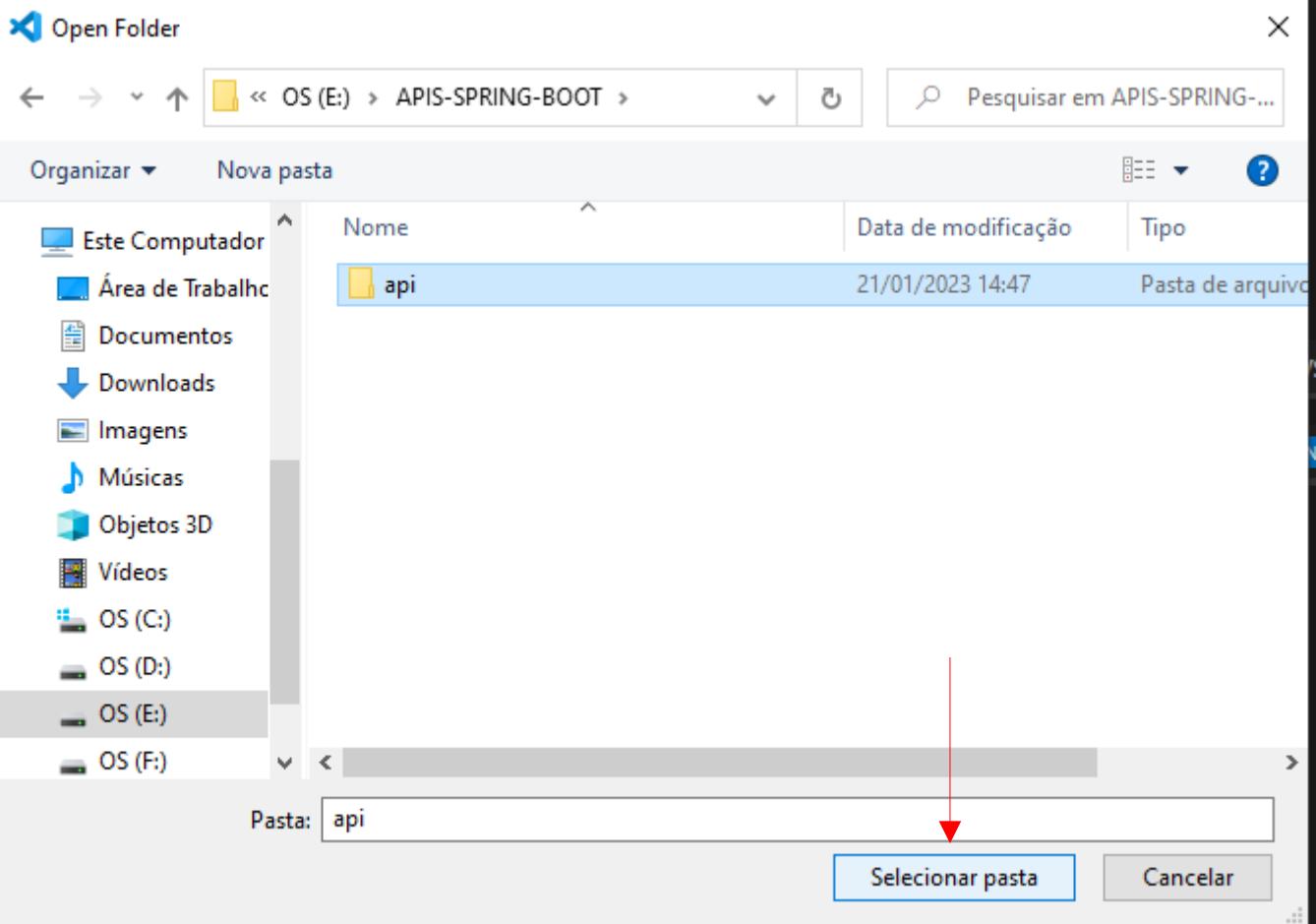
Ele abre para você escolher onde vai salvar o projeto
Você pode escolher qualquer pasta para salvar seu projeto





Abrindo a pasta que criamos







EXPLORER

- ... **Get Started** x
- API
 - > .mvn
 - > .vscode
 - > src
 - .gitignore
 - HELP.md
 - mvnw
 - mvnw.cmd
 - pom.xml

Visual Studio Code

Editing evolved

Start

- New File...
- Open File...
- Open Folder...
- Clone Git Repository...

Recent

- APIS-SPRING-BOOT E:\
 - API-JAVA D:\
 - API-STARWARS E:\
 - GRAFICOS-JS F:\
 - STAR-WARS F:\
- More...

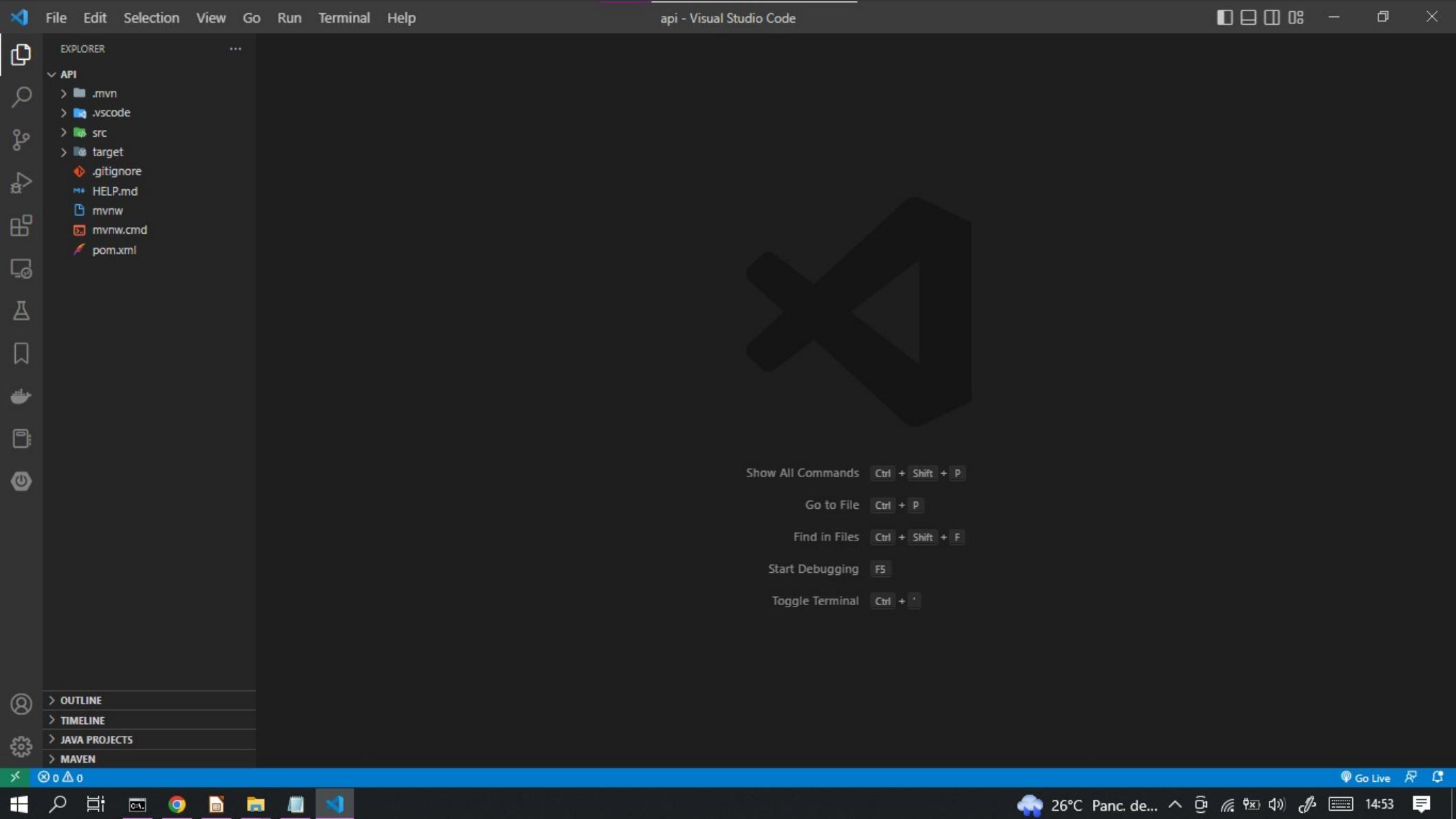
Walkthroughs

- Getting Started with Spring Boot in VS Code New

- Get Started with Java Development New

More...

Espere todos os arquivos serem baixados



EXECUTANDO PROJETO

File Edit Selection View Go Run Terminal Help

ApiApplication.java - api - Visual Studio Code

EXPLORER

API

- .mvn
- .vscode
- src
 - main
 - java\br\com\projeto\api
 - Aplication.java
 - resources
 - test
 - target
 - .gitignore
 - HELP.md
 - mvnw
 - mvnw.cmd
 - pom.xml

ApiApplication.java X

src > main > java > br > com > projeto > api > ApiApplication.java > Language Support for Java(TM) by Red Hat > {} br.com.projeto.api

```
1 package br.com.projeto.api;
2
3 import org.springframework.boot.SpringApplication;
4 import org.springframework.boot.autoconfigure.SpringBootApplication;
5
6 @SpringBootApplication
7 public class ApiApplication {
8
9     Run | Debug ←
10    public static void main(String[] args) {
11        SpringApplication.run(primarySource: ApiApplication.class, args);
12    }
13 }
14
```

Preste atenção nessas duas opções
Podemos rodar a aplicação com a opção run ou ir la embaixo em...



File Edit Selection View Go Run Terminal Help

ApiApplication.java - api - Visual Studio Code



EXPLORER

...

ApiApplication.java X

src > main > java > br > com > projeto > api > ApiApplication.java > Language Support for Java(TM) by Red Hat > {} br.c

```
1 package br.com.projeto.api;  
2  
3 import org.springframework.boot.SpringApplication;  
4 import org.springframework.boot.autoconfigure.SpringBootApplication;  
5  
6 @SpringBootApplication  
7 public class ApiApplication {  
8  
9     public static void main(String[] args) {  
10         SpringApplication.run(primarySource: ApiApplication.class, args);  
11     }  
12 }  
13 }  
14 }
```



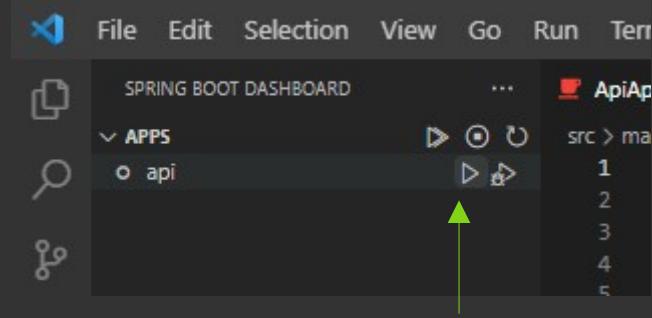
Nessa opção spring boot dashboard

A screenshot of a code editor showing a Spring Boot application structure. The left sidebar shows a project tree with 'SPRING BOOT DASHBOARD' at the root, expanded to show 'APPS' and 'api'. The main editor area shows the 'ApiApplication.java' file:

```
1 package br.com.  
2  
3 import org.spring  
4 import org.spring  
5  
6 @SpringBootApp  
7 public class Ap  
8  
9     Run | Debug  
10    public stat  
11        SpringA  
12    }  
13 }  
14 }
```

The status bar at the bottom of the editor shows the path: 'C:\Users\...'. A green arrow points from the bottom left towards the power icon in the bottom right corner of the editor window.

E rodamos o projeto
Tanto faz qualquer uma das escolhas



EXECUTE O PROJETO PARA FAZER UM TESTE

SPRING BOOT DASHBOARD

APPENDIX

o api

ApiApplication.java

ApiApplication.java pom.xml

dom.x

```
2 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3   xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">
4     <modelVersion>4.0.0</modelVersion>
5     <parent>
6       <groupId>org.springframework.boot</groupId>
7       <artifactId>spring-boot-starter-parent</artifactId>
8       <version>3.0.2</version>
9       <relativePath/> 
10    </parent>
```

[PROBLEMS](#) [OUTPUT](#) [TERMINAL](#)

◀ TERMINAL

Spring Boot (v3.0.2)

```
2023-01-21T15:10:28.415-03:00 INFO 968 --- [ restartedMain] br.com.projeto.api.ApiApplication : Starting ApiApplication using Java 17.0.5 with PID 968 (E:\APIS-SPRING-BOOT\api\target\classes started by brito in E:\APIS-SPRING-BOOT\api)
```

```
2023-01-21T15:10:28.424-03:00 INFO 968 --- [ restartedMain] br.com.projeto.api  
.ApiApplication : No active profile set, falling back to 1 default profile  
e: "default"
```

```
2023-01-21T15:10:28.920-03:00 INFO 968 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
```

```
2023-01-21T15:10:28.924-03:00 INFO 968 --- [ restartedMain] o.apache.catalina.core.StandardService : Starting service [Tomcat]
```

```
2023-01-21T15:10:28.937+03:00 INFO 968 --- [ restartedMain] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/10.1.5]
2023-01-21T15:10:28.991+03:00 INFO 968 --- [ restartedMain] o.a.c.t.Tomcat : [Tomcat]
```

```
2023-01-21T15:10:28.999-03:00  INFO 968 --- [ restartedMain] o.a.c.c.C.[Tomcat].
[localhost].[] : Initializing Spring embedded WebApplicationContext
2023-01-21T15:10:28.992-03:00  INFO 968 --- [ restartedMain] w.s.c.ServletWebSe
```

```
rverApplicationContext : Root WebApplicationContext: initialization completed in 2023-01-21T15:10:29.197-03:00  INFO 968 --- [ restartedMain] o.s.b.d.a.Optional
```

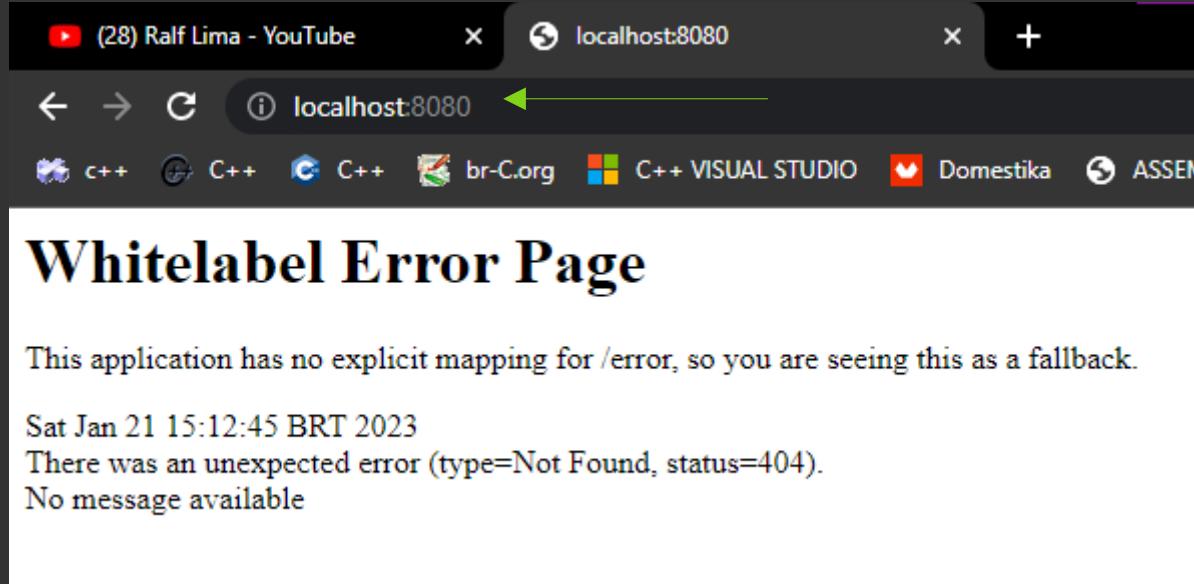
```
in context path : /api  
2023-01-21T15:10:29.269-03:00  INFO 968 --- [ restartedMain] br.com.projeto.api.ApiApplication      : Started ApiApplication in 0.94 seconds (pr  
ocess running for 37.181)
```

Ln 1, Col 1 Tab Size: 4 UTF-8 LF {} XML ⚡ Go Live 🌐 🔔



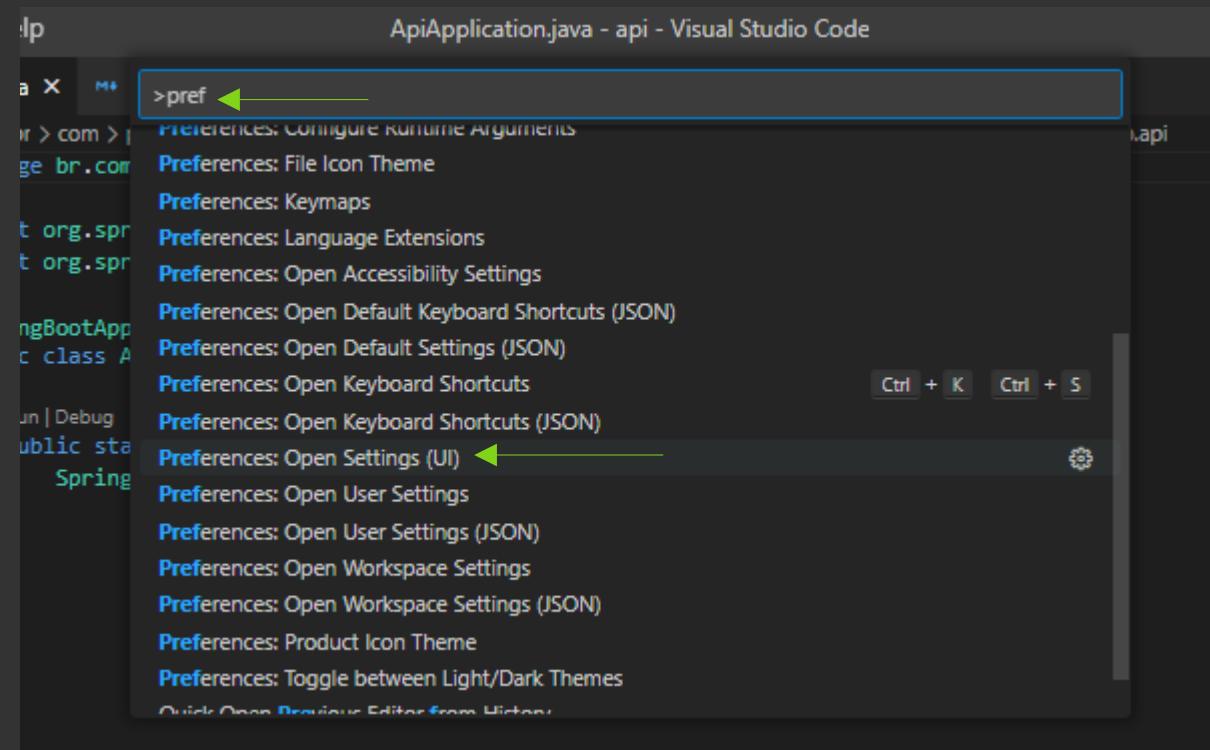
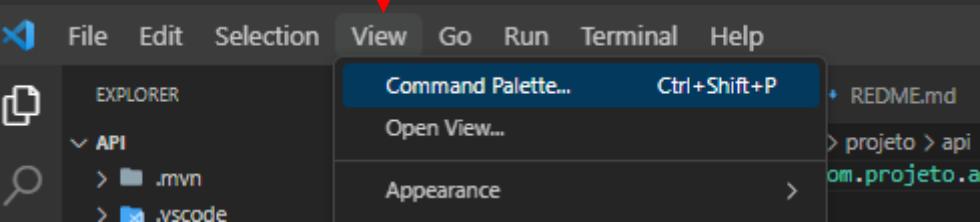
Chuva por parar

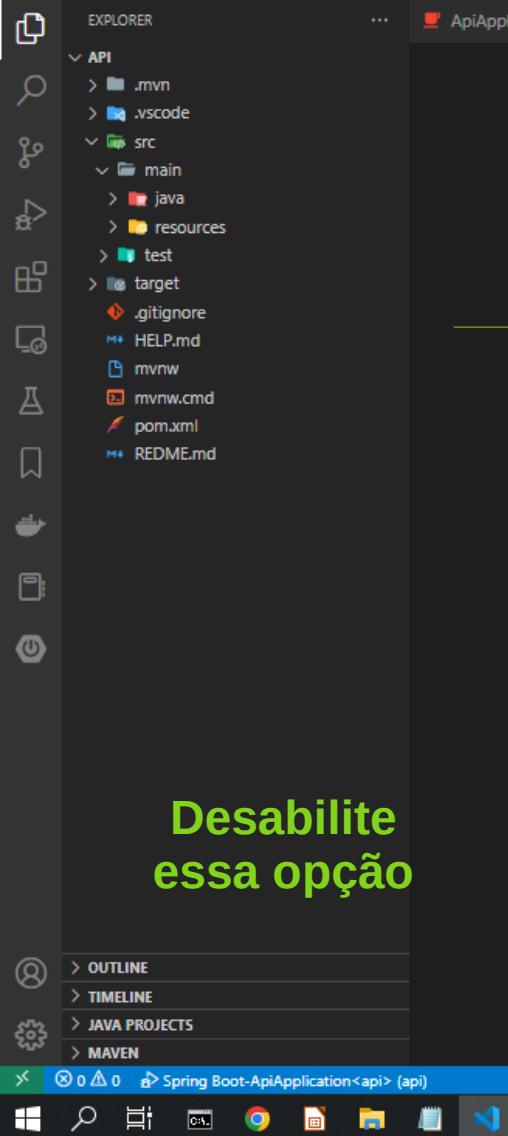




ERRO BOM SIGNIFICA QUE ESTA RODANDO

IMPLEMENTANDO O CONTROLLER PARA CORRIGIR O ERRO





Desabilite essa opção

- Commonly Used
- > Text Editor
- > Workbench
- > Window
- ✓ Features
- Explorer
- Search
- Debug
- Testing
- Source Control
- Extensions
- Terminal
- Task
- Problems
- Output
- Comments
- Remote
- Timeline
- Notebook
- Audio Cues
- Merge Editor
- > Application
- > Security
- > Extensions

Exp

Auto Reveal

Controls whether the Explorer should automatically reveal and select files when opening them.

true ✓

Auto Reveal Exclud

Configure glob patterns for excluding files and folders from being revealed and selected in the Explorer when they are opened. Read more about glob patterns [here](#).

**/node module

**/bower component

Add Pattern

Compact Folder

Controls whether the Explorer should render folders in a compact form. In such a form, single child folders will be compressed in a combined tree element. Useful for Java package structures, for example.

Confirm Delete

Controls whether the Explorer should ask for confirmation when deleting a file via the trash

Confirm Drag And Drop

Controls whether the Explorer should ask for confirmation to move files and folders via drag and drop.

Confirm Undo

Controls whether the Explorer should ask for confirmation when undoing

default

The screenshot shows the Visual Studio Code interface with a Java Spring Boot project open. The Explorer sidebar on the left displays the project structure:

- API
- .mvn
- .vscode
- src
 - main
 - java
 - br
 - com
 - projeto
 - api
 - ApiApplication.java
 - resources
 - test
 - target
 - .gitignore
 - HELP.md
 - mvnw
 - mvnw.cmd
 - pom.xml
 - REDME.md

Agora as pastas aparecem em cascata

The screenshot shows a Java project named "API" in the Explorer sidebar. The project structure includes a ".mvn" folder, a ".vscode" folder, a "src" folder containing "main", "java", "br", "com", and "projeto" subfolders, and an "api" folder. Inside the "api" folder, there is an "Ap" file. A context menu is open over the "api" folder, with the "New Folder..." option highlighted. Other options in the menu include "New File...", "Reveal in File Explorer" (Shift+Alt+R), "Open in Integrated Terminal", "Add Folder to Java Source Path", "Remove Folder from Java Source Path", and "Find in Folder..." (Shift+Alt+F).

```
1 package br.com.projeto.api;
2
3 import org.springframework.boot.SpringApplication;
4 import org.springframework.boot.autoconfigure.SpringBootApplication;
5
6 @SpringBootApplication
7 public class ApiApplication {
8
9     public static void main(String[] args) {
10         SpringApplication.run(primarySource: ApiApplication.class, args);
11     }
12 }
```

**Crie uma nova pasta dentro da pasta api com o nome controle
Precisa ser este nome é obrigatorio? não**

The screenshot shows the Visual Studio Code interface with the following details:

- File Menu:** File, Edit, Selection, View, Go, Run, Terminal
- Terminal:** Shows the command "ApiApplication.java" being typed.
- Explorer:** Displays the project structure:
 - API
 - .mvn
 - .vscode
 - src
 - main
 - java
 - br
 - com
 - projeto
 - api
 - controle
 - resources
 - test
 - target
 - .gitignore
 - HELP.md
 - mvnw
 - mvnw.cmd
 - pom.xml
 - README.md

The screenshot shows the VS Code interface with a dark theme. The Explorer sidebar on the left displays the project structure:

- API
- .mvn
- .vscode
- src
 - main
 - java
 - br
 - com
 - projeto
 - api
 - controle
 - resources
 - test
 - target
 - .gitignore
 - HELP.md
 - mvnw
 - mvnw.cmd
 - pom.xml
 - RFDFMF.md

The 'controle' folder is selected. A context menu is open over the 'controle' folder, with the 'New File...' option highlighted in blue.

ApiApplication.java

```
1 package br.com.projeto.api;  
2  
3 import org.springframework.boot.SpringApplication;  
4 import org.springframework.boot.autoconfigure.SpringBootApplication;  
5  
6 @SpringBootApplication  
7 public class ApiApplication {  
8  
9     public static void main(String[] args) {  
10         SpringApplication.run(primarySource:)
```

Criando uma class controle dentro da pasta controle

The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** Controle.java - api - Visual Studio Code
- Explorer View (Left):** Shows the project structure:
 - API
 - .mvn
 - .vscode
 - src
 - main
 - java
 - br
 - com
 - projeto
 - api
 - controle
 - Controle.java
 - resources
 - test
 - target
 - .gitignore
 - HELP.md
 - mvnw
 - mvnw.cmd
 - pom.xml
 - REDME.md
- Code Editor (Center):** Shows the file `Controle.java` with the following content:

```
src > main > java > br > com > projeto > api > controle > Controle.java > Controle
1 package br.com.projeto.api.controle;
2
3 public class Controle {
4
5 }
```
- Completion Panel (Right):** A dropdown menu showing suggestions for the word `Controle`, which includes:
 - class Controle
 - interface Controle
 - enum Controle
 - record Controle()
 - abstract class Controle
 - @interface Controle

A screenshot of the Visual Studio Code interface. The menu bar includes File, Edit, Selection, View, Go, Run, Terminal, and Help. The title bar shows "Controle.java - api - Visual Studio Code". The Explorer sidebar on the left shows a project structure under "API": .mvn, .vscode, src, main, java, br, com, projeto. The main editor area displays Java code:

```
src > main > java > br > com > projeto > api > controle > Controle.java > Controle
1 package br.com.projeto.api.controle;
2
3 @RestController
4 public RestControllerEndpoint - org.springframework.boot...
5
6 }
7
```

A code completion tooltip is open at line 4, showing the suggestion "public RestControllerEndpoint - org.springframework.boot..." with a tooltip below it containing "org.springframework.boot.actuate.endpoint.web.annotation.RestControllerEndpoint".

Adicione a anotaion **@RestController** e seu import



EXPLORER

- ... ApiApplication.java
- ... Controle.java 1
- ... REDME.md

src > main > java > br > com > projeto > api > controle > Controle.java > Controle

- 1 package br.com.projeto.api.controle;
- 2 Controle
- 3 @RestController
- 4 public class Controle {
- 5 }
- 6 }
- 7 }

Controle.java 1

ApiApplication.java

- > resources
- > test
- > target
 ↳ .gitignore
- M+ HELP.md
- mvnw
- mvnw.cmd
- pom.xml
- M+ REDME.md

```
1 package br.com.projeto.api.controle;
2
3 @RestController
4 public class Controle {
5 }
6 }
7 }
```

org.springframework.web.bind.annotation.RestController

A convenience annotation that is itself annotated with `@Controller` and `@ResponseBody`.

Types that carry this annotation are treated as controllers where `@RequestMapping` methods assume `@ResponseBody` semantics by default.

NOTE: `@RestController` is processed if an appropriate `HandlerMapping` - `HandlerAdapter` pair is configured such as the `RequestMappingHandlerMapping` - `RequestMappingHandlerAdapter` pair which are the default in the MVC Java config and the MVC namespace.

- **Since:**
 - 4.0
- **Author:**

The screenshot shows a Java project structure in the Explorer sidebar and the corresponding code in the main editor area.

Project Structure:

- API** (selected)
- .mvn
- .vscode
- src** (selected)
- main
 - java
 - br
 - com
 - projeto
 - api
 - controle
 - Controle.java
 - resources
 - test
 - target
 - .gitignore
 - HELP.md
 - mvnw
 - mvnw.cmd
 - pom.xml
 - REDME.md

Controle.java - api - Visual Studio Code

Controle.java

```
src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Java(TM) by Red Hat > Controle.java
```

```
1 package br.com.projeto.api.controle;
2
3 import org.springframework.web.bind.annotation.RestController;
4
5 @RestController
6 public class Controle {
7
8
9 }
10
```

A screenshot of the Visual Studio Code interface. The menu bar includes File, Edit, Selection, View, Go, Run, Terminal, and Help. The title bar shows "Controle.java - api - Visual Studio Code". The Explorer sidebar on the left shows a project structure under "API": ".mvn", ".vscode", "src" (selected), "main", "java", "br", "com", "projeto", "api", "controle", "Controle.java" (1 file). The main editor area displays Java code:

```
2  
3     import org.springframework.web.bind.annotation.RestController;  
4  
5     @RestController  
6     public class Controle {  
7  
8         @Get  
9         public GetExchange - org.springframework.web.service.annotation.GetExchange  
10            GetMapping - org.springframework.web.bind.annotation.GetMapping  
11        }  
12        Generated - jakarta.annotation  
13        Generated - javax.annotation.processing  
14    }
```

The code editor has a tooltip for the "@Get" annotation, which includes:

- Since: 6.0
- Author: Rossen Stoyanchev

The status bar at the bottom shows "Language Support for Java(TM) by Red Hat > Controle > mensagem()

Adicione a anotation **@GetMapping** e seu import

The screenshot shows a Java project structure in the Explorer sidebar and a code editor window in Visual Studio Code.

File Explorer (Left):

- API
 - .mvn
 - .vscode
 - src
 - main
 - java
 - br
 - com
 - projeto
 - api
 - controle
 - resources
 - test
 - target
 - .gitignore
 - HELP.md
 - mvnw
 - mvnw.cmd
 - pom.xml
 - REDME.md

Controle.java - api - Visual Studio Code

ApiApplication.java Controle.java README.md

```
src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Java(TM) by Red Hat > Controle.java
```

```
1 package br.com.projeto.api.controle;
2
3 import org.springframework.web.bind.annotation.GetMapping;
4 import org.springframework.web.bind.annotation.RestController;
5
6 @RestController
7 public class Controle {
8
9     @GetMapping
10    public String mensagem(){
11        return "Hello World";
12    }
13
14 }
```

The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** Controle.java - api - Visual Studio Code
- Explorer View:** Shows the project structure under API:
 - .mvn
 - .vscode
 - src
 - main
 - java
 - br
 - com
 - projeto
 - api
 - controle
 - Controle.java
 - resources
 - test
 - target
 - .gitignore
 - HELP.md
 - mvnw
 - mvnw.cmd
 - pom.xml
 - REDME.md
- Editor View:** Controle.java file open, showing the following code:

```
1 package br.com.projeto.api.controle;
2
3 import org.springframework.web.bind.annotation.GetMapping;
4 import org.springframework.web.bind.annotation.RestController;
5
6 @RestController
7 public class Controle {
8
9     @GetMapping("")
10    public String mensagem(){
11        return "Hello World";
12    }
13
14 }
```
- Bottom Status Bar:** Rota especificada dentro dos parentesis ""
De run e volte no navegador e atualize a pagina

The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Editor Title:** Controle.java - api - Visual Studio Code
- Editor Content:** The code for `Controle.java` is displayed, which defines a REST controller for "Hello World".

```
src > main > java > br > com > projeto > api > controle > Controle.java > ...
1 package br.com.projeto.api.controle;
2
3 import org.springframework.web.bind.annotation.GetMapping;
4 import org.springframework.web.bind.annotation.RestController;
5
6 @RestController
7 public class Controle {
8
9     @GetMapping("")
10    public String mensagem(){
11        return "Hello World";
12    }
13
14 }
15
```

- Sidebar:** Shows the project structure under "SPRING BOOT DASHBOARD" with "APPS" expanded and "api" selected.
- Left Panel:** Displays various icons for file operations like Open, Save, Find, and Run.

File Edit Selection View Go Run Terminal Help ApiApplication.java - api - Visual Studio Code

EXPLORER

API

- .mvn
- .vscode
- src
 - main
 - java
 - br
 - com
 - projeto
 - api
 - controle
 - Controle.java

src > main > java > br > com > projeto > api > ApiApplication.java > ...

```
1 package br.com.projeto.api;
2
3 import org.springframework.boot.SpringApplication;
4 import org.springframework.boot.autoconfigure.SpringBootApplication;
5
6 @SpringBootApplication
7 public class ApiApplication {
8     Run | Debug
9     public static void main(String[] args) {
10         SpringApplication.run(primarySource: ApiApplication.class, args);
11     }
12 }
13
14 }
```

RESOLVI O ERRO EXECUTANDO POR AQUI RUN

PROBLEMS OUTPUT TERMINAL

TERMINAL

```
'/actuator'
2023-01-21T16:07:10.769-03:00 INFO 6944 --- [on(1)-127.0.0.1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing
spatcherServlet'
2023-01-21T16:07:10.784-03:00 INFO 6944 --- [on(1)-127.0.0.1] o.s.web.servlet.DispatcherServlet : Initializin
2023-01-21T16:07:10.790-03:00 INFO 6944 --- [on(1)-127.0.0.1] o.s.web.servlet.DispatcherServlet : Completed i
2023-01-21T16:07:10.876-03:00 INFO 6944 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat star
th context path ''
2023-01-21T16:07:11.048-03:00 INFO 6944 --- [ restartedMain] br.com.projeto.api.ApiApplication : Started Api
process running for 8.088)
```

This method cannot be moved, since no possible targets have been found. Only a class which is reachable from within this method can be a valid target. The target must therefore be the declaring class of a parameter or field type. In addition the target must be writable.

Source: Language Support for Java(TM) by Red Hat (Extension)

Ln 14, Col 1 Tab Size: 4 UTF-8 LF {} Java Go Live

Spring Boot-ApiApplication<api> (api)

26°C Nublado



File Edit Selection View Go Run Terminal Help

Controle.java - api - Visual Studio Code



EXPLORER

...

ApiApplication.java

Controle.java X

REDME.md



API

.mvn

.vscode

src

main

java

br

com

projeto

api

controle

Controle.java

ApiApplication.java

resources

test

target

.gitignore

HELP.md

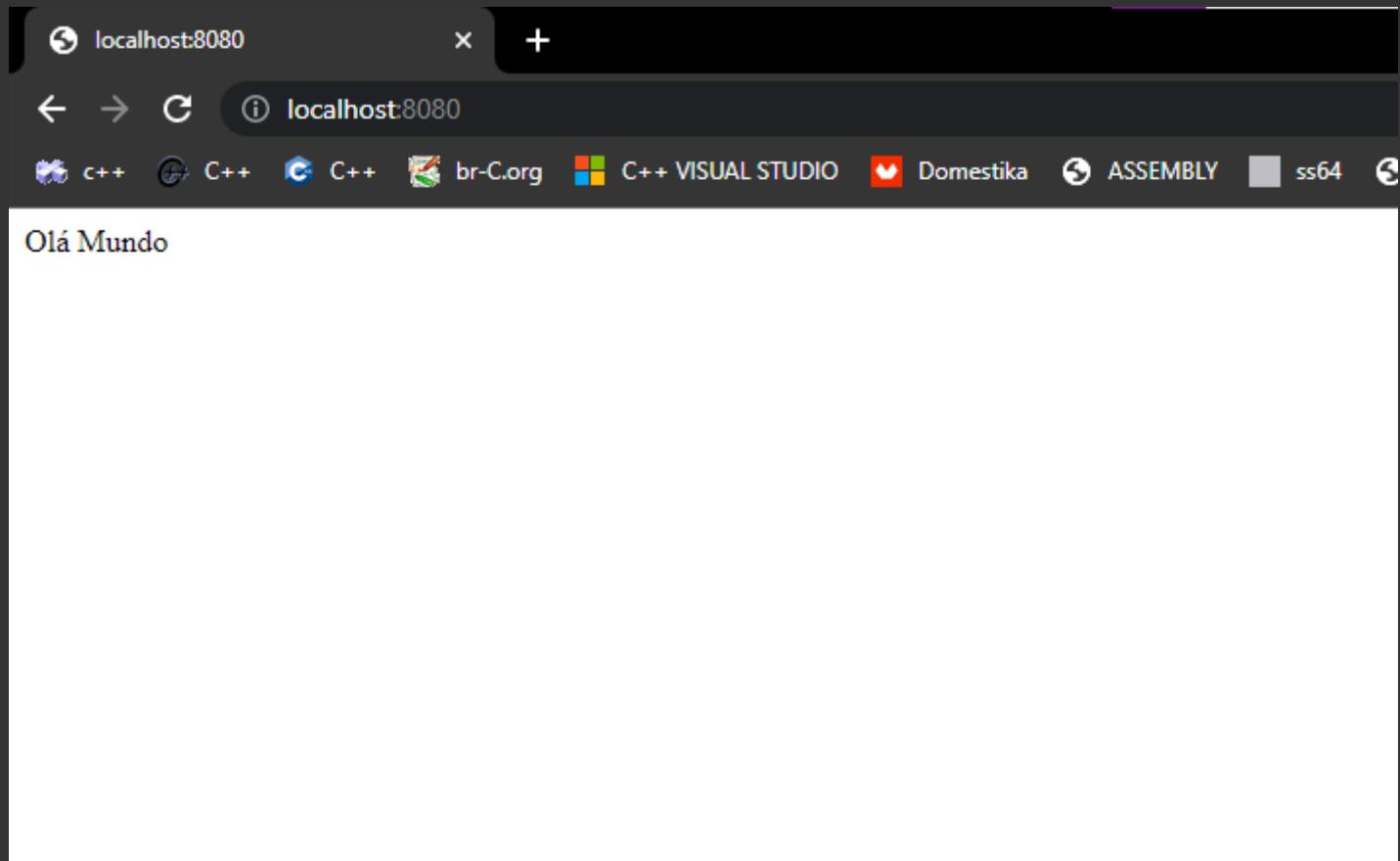
mvnw

mvnw.cmd

pom.xml

REDME.md

```
src > main > java > br > com > projeto > api > controle > Controle.java > ...
1 package br.com.projeto.api.controle;
2
3 import org.springframework.web.bind.annotation.GetMapping;
4 import org.springframework.web.bind.annotation.RestController;
5
6 @RestController
7 public class Controle {
8
9     http://127.0.0.1:8080/
10    @GetMapping("/")
11    public String mensagem(){
12        return "Hello World";
13    }
14}
15
```



```
5  
6 @RestController  
7 public class Controle {  
8  
9     http://127.0.0.1:8080/  
10    @GetMapping("/") ←  
11    public String mensagem(){  
12        return "Hello World";  
13    }  
14 }  
15 }
```

Resolvi adicionando o / na url

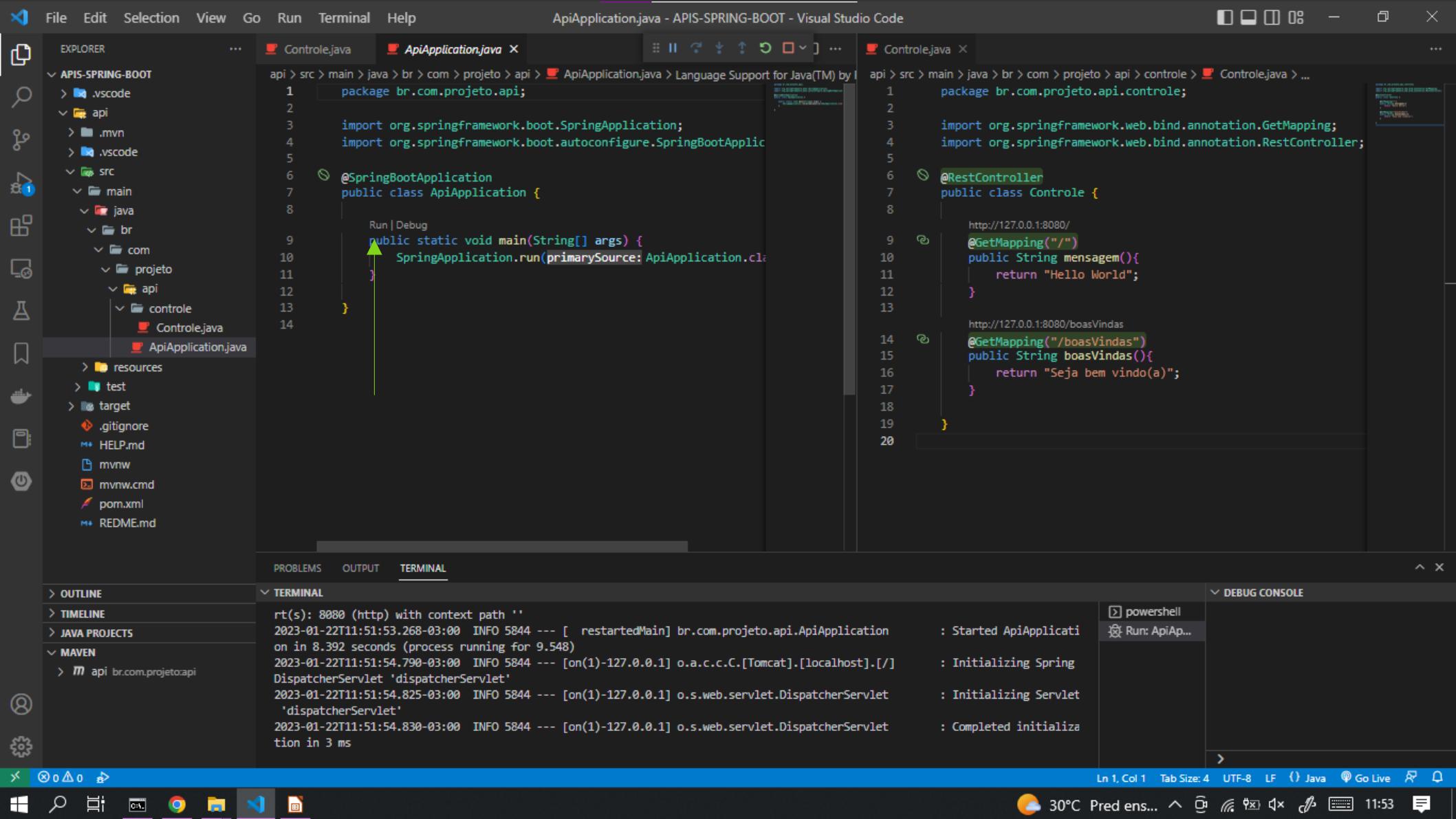
#6 **@PathVariable**

The screenshot shows the Visual Studio Code interface with the following details:

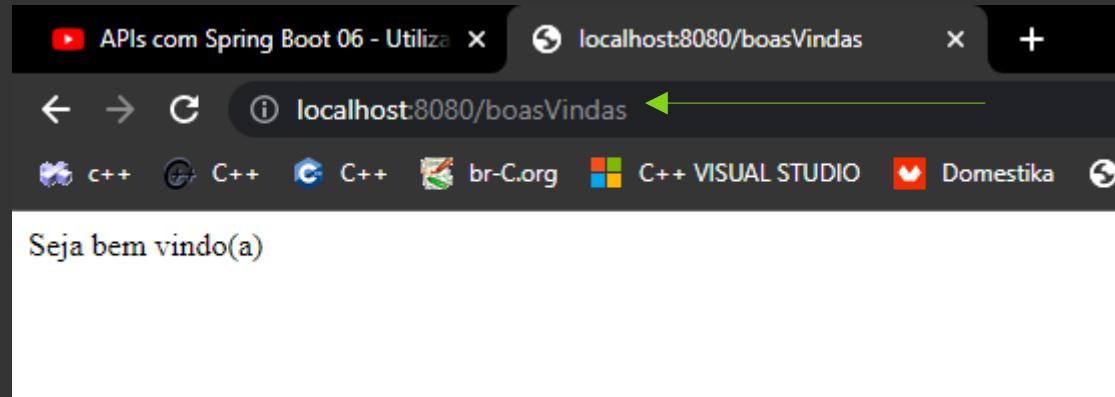
- Explorer View:** Shows the project structure under "APIS-SPRING-BOOT". The "src/main/java" folder contains "br.com.projeto.api" which further contains "controle" and "Controle.java". Other files like "ApiApplication.java", ".gitignore", and "pom.xml" are also listed.
- Code Editor:** Displays the "Controle.java" file content:

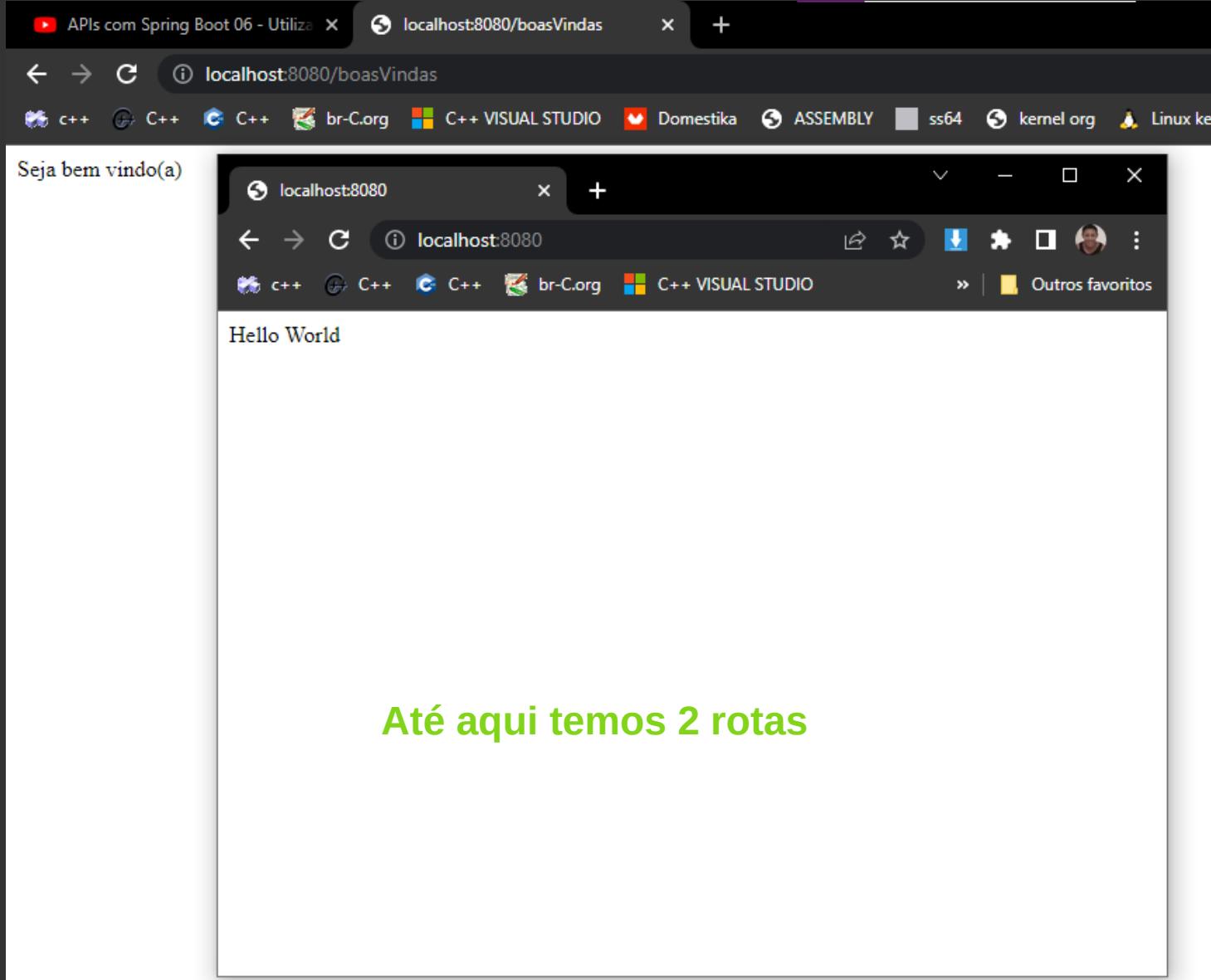
```
1 package br.com.projeto.api.controle;
2
3 import org.springframework.web.bind.annotation.GetMapping;
4 import org.springframework.web.bind.annotation.RestController;
5
6 @RestController
7 public class Controle {
8
9     @GetMapping("/")
10    public String mensagem(){
11        return "Hello World";
12    }
13
14    @GetMapping("/boasVindas")
15    public String boasVindas(){
16        return "Seja bem vindo(a)";
17    }
18
19 }
20
```
- Terminal:** Shows the command line prompt "PS E:\APIS-SPRING-BOOT>".
- Bottom Status Bar:** Includes tabs for PROBLEMS, OUTPUT, and TERMINAL, with TERMINAL being the active tab.

**Crie uma nova rota
Depois disso salve va no
navegador e atualize
E insira a nova rota**



rota







EXPLORER

APIS-SPRING-BOOT

> .vscode

< api

> .mvn

> .vscode

< src

< main

< java

< br

< com

< projeto

< api

< controle

Controle.java 3

ApiApplication.java

> resources

> test

> target

< .gitignore

< HELP.md

< mvnw

< mvnw.cmd

< pom.xml

< README.md

Controle.java 3

```
api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Java(TM) by Red Hat > Controle > boasVindas()  
1      package br.com.projeto.api.controle;  
2  
3      import org.springframework.web.bind.annotation.GetMapping;  
4      import org.springframework.web.bind.annotation.RestController;  
5  
6      @RestController  
7      public class Controle {  
8  
9          @GetMapping("/")  
10         public String mensagem(){  
11             return "Hello World";  
12         }  
13  
14         @GetMapping("/boasVindas/{nome}")  
15         public String boasVindas(@PathVariable{  
16             return "Seja bem vindo(a)"  
17         }  
18  
19     }
```



Adicione a **@PathVariable** e seu import

• PathParam - jakarta.websocket.server
• PathVariable - org.springframework.web.bind.annotation
• PatchExchange - org.springframework.web.service.a...
• PatchMapping - org.springframework.web.bind.annot...

jakarta.websocket.server

Used to annotate method

endpoints the the ServerF

with a ServerEndpointVal

template.

File Edit Selection View Go Run Terminal Help

Controle.java - APIS-SPRING-BOOT - Visual Studio C

EXPLORER

APIS-SPRING-BOOT

- .vscode
- api
- .mvn
- .vscode
- src
 - main
 - java
 - br
 - com
 - projeto
 - api
 - controle
 - Controle.java
 - resources
 - test
 - target
 - .gitignore
 - HELP.md
 - mvnw
 - mvnw.cmd
 - pom.xml
 - README.md

Controle.java X

api > src > main > java > br > com > projeto > api > controle > Controle.java > ...

```
2
3     import org.springframework.web.bind.annotation.GetMapping;
4     import org.springframework.web.bind.annotation.PathVariable;
5     import org.springframework.web.bind.annotation.RestController;
6
7     @RestController
8     public class Controle {
9
10        @GetMapping("/")
11        public String mensagem(){
12            return "Hello World";
13        }
14
15        @GetMapping("/boasVindas/{nome}")
16        public String boasVindas(@PathVariable String nome){
17            return "Seja bem vindo(a)";
18        }
19
20    }
```

{nome} faz o spring pegar o nome dinamicamente
@PathVariable adicionado ao metodo só falta concatenar

File Edit Selection View Go Run Terminal Help

Controle.java - APIS-SPRING-BOOT - Visual Studio Code

EXPLORER

APIS-SPRING-BOOT

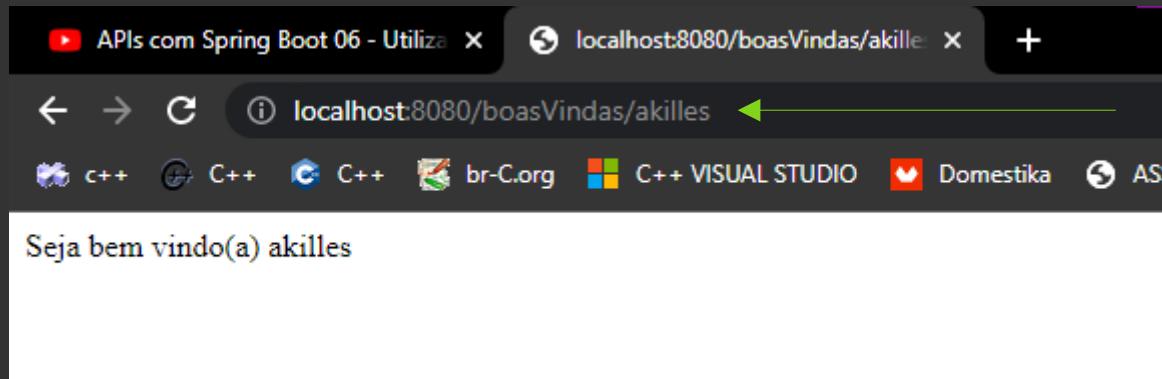
- .vscode
- api
- .mvn
- .vscode
- src
 - main
 - java
 - br
 - com
 - projeto
 - api
 - controle
 - Controle.java
 - ApiApplication.java
- resources
- test
- target
- .gitignore
- HELP.md
- mvnw
- mvnw.cmd
- pom.xml
- README.md

Controle.java

api > src > main > java > br > com > projeto > api > controle > Controle.java > ...

```
2
3     import org.springframework.web.bind.annotation.GetMapping;
4     import org.springframework.web.bind.annotation.PathVariable;
5     import org.springframework.web.bind.annotation.RestController;
6
7     @RestController
8     public class Controle {
9
10        @GetMapping("/")
11        public String mensagem(){
12            return "Hello World";
13        }
14
15        @GetMapping("/boasVindas/{nome}")
16        public String boasVindas(@PathVariable String nome){
17            return "Seja bem vindo(a)" + nome;
18        }
19
20    }
```

Concatenando com nome
Agoar salve volte no navegador e teste





Se não for passado nenhum nome da esse erro
Mas tá de boa até aqui

File Edit Selection View Go Run Terminal Help

Controle.java - APIS-SPRING-BOOT - Visual Studio

EXPLORER

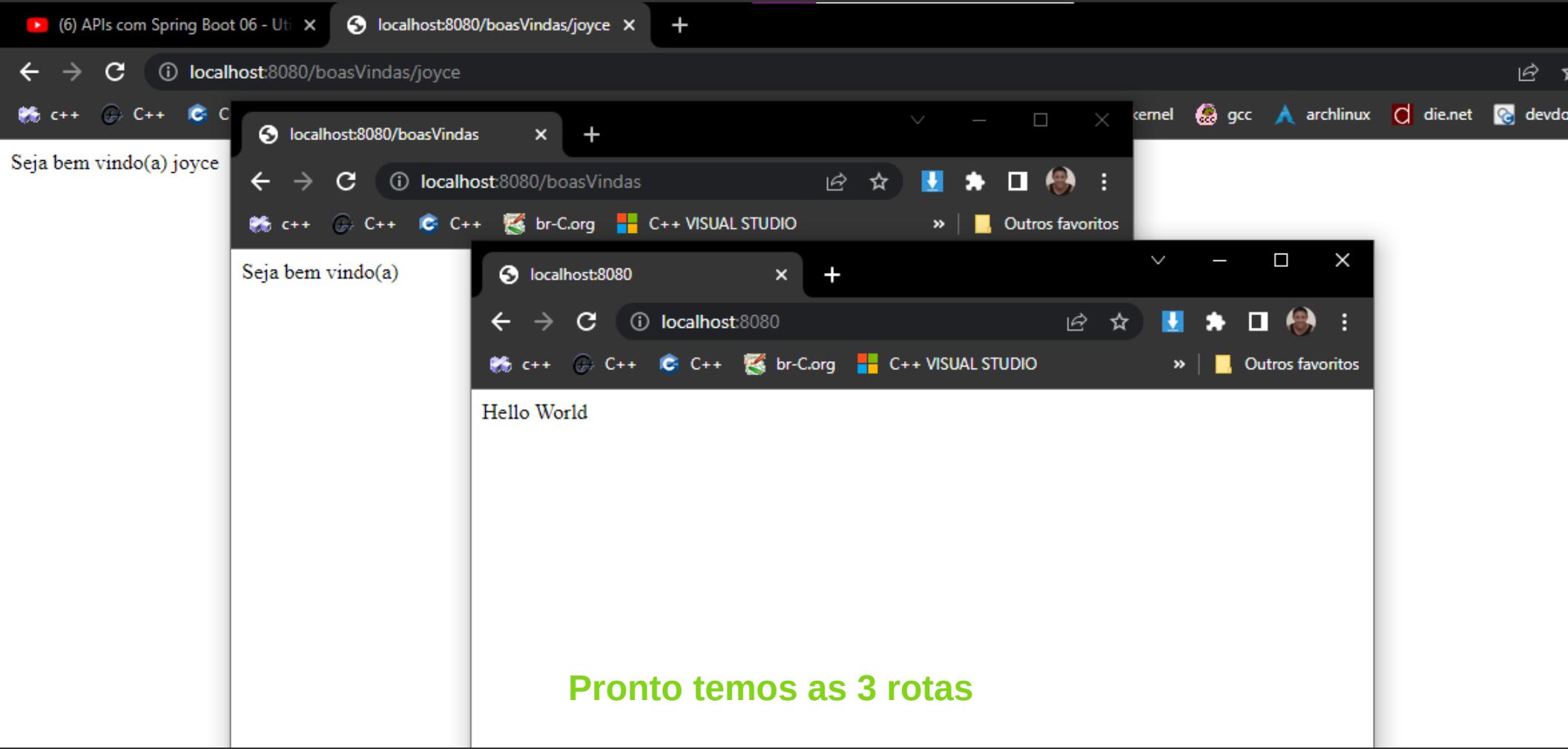
APIS-SPRING-BOOT

- .vscode
- api
- .mvn
- .vscode
- src
 - main
 - java
 - br
 - com
 - projeto
 - api- controle
 - Controle.java
 - ApiApplication.java
- resources
- test
- target
 - .gitignore
 - HELP.md
 - mvnw
 - mvnw.cmd
 - pom.xml
 - REDME.md

Controle.java

```
2
3     import org.springframework.web.bind.annotation.GetMapping;
4     import org.springframework.web.bind.annotation.PathVariable;
5     import org.springframework.web.bind.annotation.RestController;
6
7     @RestController
8     public class Controle {
9
10        @GetMapping("/")
11        public String mensagem(){
12            return "Hello World";
13        }
14
15        @GetMapping("/boasVindas")
16        public String boasVindas(){
17            return "Seja bem vindo(a) ";
18        }
19
20        @GetMapping("/boasVindas/{nome}")
21        public String boasVindas(@PathVariable String nome){
22            return "Seja bem vindo(a) " + nome;
23        }
24
25    }
```

Podemos resolver o erro adicionando a rota que falta



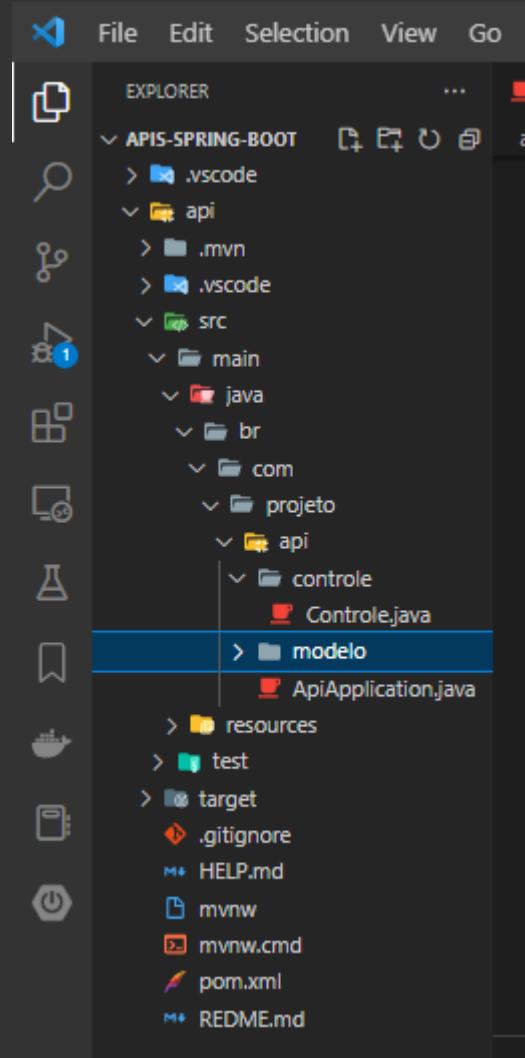
#7
MODELOS

**o que são modelos?
servem pra capturar os dados vindos de uma url
e criam tabelas sem precisar escrever o sql**

The screenshot shows the VS Code interface with a Java Spring Boot project named "APIS-SPRING-BOOT". The project structure in the Explorer sidebar includes ".vscode", "api", ".mvn", ".vscode", "src", "main", "java", "br", "com", "projeto", and "api". The "api" folder under "src/main/java" is currently selected. A context menu is open over this folder, with the "New Folder..." option highlighted. Other options in the menu include "New File...", "Reveal in File Explorer", "Open in Integrated Terminal", "Add Folder to Java Source Path", "Remove Folder from Java Source Path", and "Find in Folder...".

```
2
3     import org.springframework.web.bind.annotation.*;
4     import org.springframework.web.bind.annotation.*;
5     import org.springframework.web.bind.annotation.*;
6
7     @RestController
8     public class Controle {
9
10        @GetMapping("/")
11        public String mensagem(){
12            return "Hello World";
13        }
}
```

Crie uma nova pasta dentro da pasta api chamada modelo



The screenshot shows the Visual Studio Code interface with a Java Spring Boot project named "APIS-SPRING-BOOT". The project structure in the Explorer sidebar includes ".vscode", "api", ".mvn", ".vscode", "src", "main", "java", "br", "com", "projeto", "api", "controle", "Controle.java", "modelo", "ApiApplication.java", "resources", "test", "target", ".gitignore", "HELP.md", "mvnw", and "mvnw.cmd". The "controle" folder and "Controle.java" file are currently selected. The code editor displays the "Controle.java" file:

```
2
3 import org.springframework.web.bind.annotation.*;
4 import org.springframework.web.bind.annotation.RestController;
5 import org.springframework.web.bind.annotation.RequestMapping;
6
7 @RestController
8 public class Controle {
9
10    @RequestMapping("/")
11    public String mensagem(){
12        return "Hello World";
13    }
14
15    @RequestMapping("/boasVindas")
16    public String boasVindas(){
17        return "Bem-vindo ao meu projeto!";
18    }
}
```

A context menu is open over the "modelo" folder, with the "New File..." option highlighted. Other options in the menu include "New Folder...", "Reveal in File Explorer", "Open in Integrated Terminal", "Add Folder to Java Source Path", and "Remove Folder from Java Source Path".

Dentro da pasta **modelo** crie uma classe chamada **Pessoa.java**



File Edit Selection View Go Run Terminal Help

• Pessoa.java - APIS-SPRING-BOOT - Visual Studio



EXPLORER
APIS-SPRING-BOOT



> .vscode
< api
> .mvn
> .vscode
< src



< main
< java
< br
< com
< projeto
< api
< controle
Controle.java



< modelo
Pessoa.java
ApiApplication.java



> resources
> test
> target
.gitignore



HELP.md
mvnw



mvnw.cmd
pom.xml
REDME.md

Controle.java
Pessoa.java

api > src > main > java > br > com > projeto > api > modelo > Pessoa.java

```
1 package br.com.projeto.api.modelo;  
2  
3 public class Pessoa {  
4     |  
5 }  
6
```

class Pessoa
interface Pessoa
enum Pessoa
record Pessoa()
abstract class Pessoa
@interface Pessoa

PROBLEMS OUTPUT TERMINAL

The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** Pessoa.java - APIS-SPRING-BOOT - Visual Studio Code.
- Explorer View:** Shows the project structure:
 - APIS-SPRING-BOOT
 - .vscode
 - api
 - .mvn
 - .vscode
 - src
 - main
 - java
 - br
 - com
 - projeto
 - api
 - controle
 - Controle.java
 - modelo
 - Pessoa.java
 - Pessoa.java 2
 - ApiApplication.java
- Code Editor:** The file Pessoa.java is open, showing the following code:

```
1 package br.com.projeto.api.modelo;
2
3 public class Pessoa {
4     private String nome;
5     private String idade;
6 }
7
8 }
```
- Toolbar:** Standard VS Code icons for file operations like Open, Save, Find, and Refresh.

Inicialmente crie esses 2 atributos nome e idade

**Lembrando que uma classe em java serve de modelo para construir objetos
atravez do seu construtor**

**Lembre-se de deixar os atributos sempre privados pois podemos manipula-
los atravez dos metodos get e set**

The screenshot shows the Visual Studio Code interface with the following details:

- File Menu:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** Pessoajava - APIS-SPRING-BOOT
- Explorer View:** Shows the project structure under 'APIS-SPRING-BOOT'. The 'src' folder contains 'main' which has 'java', 'br', 'com', 'projeto', 'api', 'controle', and 'modelo' subfolders. 'Controle.java' and 'Pessoa.java' are listed under 'controle'. 'ApiApplication.java' is listed under 'modelo'.
- Code Editor:** The file 'Pessoa.java' is open. The code is as follows:

```
api > src > main > java > br > com > projeto > api > modelo > Pessoa.java > Pessoa.java
1 package br.com.projeto.api.modelo;
2
3 public class Pessoa {
4
5     // Atributos
6     private String nome; ←
7
8 }
```

A yellow lightbulb icon is positioned next to the line 'private String nome;'. A context menu is open at this position, titled 'Quick Fix...'.- Context Menu (Quick Fix):**
 - Remove 'nome', keep assignments with side effects
 - More Actions...
 - Generate Getter and Setter for 'nome' (highlighted in blue)
 - Generate Getter for 'nome'
 - Generate Setter for 'nome'
 - Generate Constructors...
 - Add final modifier for 'nome'
- Bottom Status Bar:** PROBLEMS 2, OUTPUT, TERMINAL.

Selecione toda a linha do nome e click na lampada e escolha gerar os metodos getters e setters



File Edit Selection View Go Run Terminal Help

Pessoa.java - APIS-SPRING-BOOT - Visual St



EXPLORER

APIS-SPRING-BOOT
> .vscode
api
> .mvn
> .vscode
src
 main
 java
 br
 com
 projeto
 api
 controle
 Controle.java
 modelo
 Pessoa.java
 ApiApplication.java
 resources
 test
target
 .gitignore
 HELP.md
 mvnw
 mvnw.cmd
 pom.xml
 REDME.md

Controle.java

Pessoa.java X

PROBLEMS OUTPUT TERMINAL

```
api > src > main > java > br > com > projeto > api > modelo > Pessoa.java > ...
1  package br.com.projeto.api.modelo;
2
3  public class Pessoa {
4
5      // Atributos
6      private String nome;
7      private String idade;
8
9
10     // Get e Set
11    public String getNome() {
12        return nome;
13    }
14    public void setNome(String nome) {
15        this.nome = nome;
16    }
17    public String getIdade() {
18        return idade;
19    }
20    public void setIdade(String idade) {
21        this.idade = idade;
22    }
23
24
25
26 }
```

Repita o procedimento para idade

**Obs: quando gerei os metodos os metodos da idade ficaram por cima do nome
dai como no original era o nome por cima eu coloquei
Tente preservar a ordem dos attributos e coloque os getters e setters nessa
mesma ordem**

File Edit Selection View Go Run Terminal Help

Pessoajava - APIS-SPRING-BOOT - Visual S

EXPLORER

APIS-SPRING-BOOT

- > .vscode
- > api
- > .mvn
- > .vscode
- > src
- > main
- > java
- > br
- > com
- > projeto
- > api
- > controle
- > Controle.java
- > modelo
- > Pessoa.java
- > ApiApplication.java

Controle.java

```
api > src > main > java > br > com > projeto > api > modelo > Pessoajava > ...
1 package br.com.projeto.api.modelo;
2
3 public class Pessoa {
4
5     // Atributos
6     private String nome;
7     private String idade;
8
9
10    // Get e Set
11    public String getNome() {
12        return nome;
13    }
14    public String getIdade() {
15        return idade;
16    }
17    public void setNome(String nome) {
18        this.nome = nome;
19    }
20    public void setIdade(String idade) {
21        this.idade = idade;
22    }
23
24
25 }
```

Pessoajava X

PROBLEMS OUTPUT TERMINAL

Colocados na ordem manualmente

#8

Vinculando modelos e controles

**Devemos criar uma rota que retorne obrigatoriamente um nome e uma idade
Pois tenho essas características no modelo pessoa**

File Edit Selection View Go Run Terminal Help • Controle.java - APIS-SPRING-BOOT - Visual Studio Code

EXPLORER

APIS-SPRING-BOOT

- .vscode
- api
- .mvn
- .vscode
- src
- main
- java
- br
- com
- projeto
- api
- controle

Controle.java 3 Pessoajava

api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Java(TM) by Red Hat > Controle

```
2
3     import org.springframework.web.bind.annotation.GetMapping;
4     import org.springframework.web.bind.annotation.PathVariable;
5     import org.springframework.web.bind.annotation.RestController;
6
7     @RestController
8     public class Controle {
9
10        @GetMapping("/")
11        public String mensagem(){
12            return "Hello World";
13        }
14
15        @GetMapping("/boasVindas")
16        public String boasVindas(){
17            return "Seja bem vindo(a) ";
18        }
19
20        @GetMapping("/boasVindas/{nome}")
21        public String boasVindas(@PathVariable String nome){
22            return "Seja bem vindo(a) " + nome;
23        }
24
25        public Pes
26    }
```

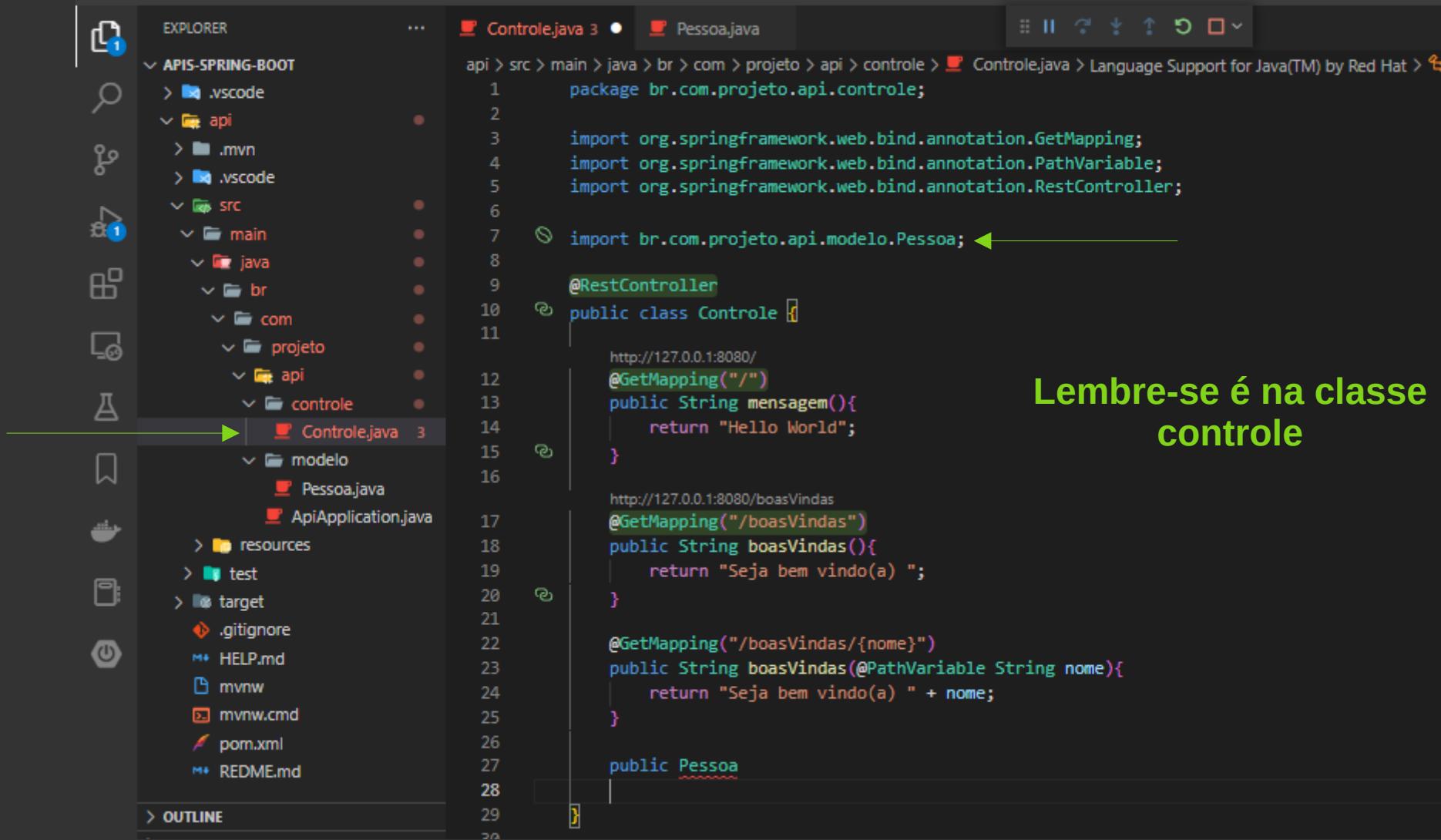
Crie a rota e importe Pessoa e adicione seu importe

PROBLEMS 3 OUTPUT TERMINAL

Pessoajava

br.com.projeto.api.modelo.Pessoa

linksResolver : Exposing 1 endpoint(
TomcatWebServer : Tomcat started on port
Application : Started ApiApplicati
on in 1.686 seconds (proc
PersistentValve - org.apache.catalina.valves
INFO 5844 --- [restartedmain] .ConditionnevaluationueltaloggingListener : Condition evaluation



Lembre-se é na classe controle



File Edit Selection View Go Run Terminal Help

Controle.java - APIS-SPRING-BOOT - Visual Studio



EXPLORER

APIS-SPRING-BOOT

.vscode

api

.mvn

.vscode

src

main

java

br

com

projeto

api

controle

Controle.java 1

modelo

Pessoa.java

ApiApplication.java

resources

test

target

.gitignore

HELP.md

mvnw

mvnw.cmd

pom.xml

README.md

Controle.java 1 X

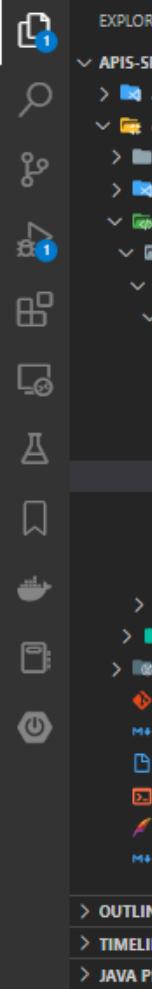
Pessoa.java

Controle.java - APIS-SPRING-BOOT - Visual Studio

```
api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Java
      import org.springframework.web.bind.annotation.RestController;
      import br.com.projeto.api.modelo.Pessoa;
      @RestController
      public class Controle {
          http://127.0.0.1:8080/
          @GetMapping("/")
          public String mensagem(){
              return "Hello World";
          }
          http://127.0.0.1:8080/boasVindas
          @GetMapping("/boasVindas")
          public String boasVindas(){
              return "Seja bem vindo(a) ";
          }
          @GetMapping("/boasVindas/{nome}")
          public String boasVindas(@PathVariable String nome){
              return "Seja bem vindo(a) " + nome;
          }
          public Pessoa pessoa(){
          }
      }
```

A ideia é pegar o nome e a idade mais não via url devemos usar o requestbody

O nome da rota é pessoa



Controle.java 3 ● Pessoajava

```
api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Java(TM) by Red Hat > Controle > pessoa()
```

```
5     import org.springframework.web.bind.annotation.RestController;
6
7     import br.com.projeto.api.modelo.Pessoa;
8
9     @RestController
10    public class Controle {
11
12        @GetMapping("/")
13        public String mensagem(){
14            return "Hello World";
15        }
16
17        @GetMapping("/boasVindas")
18        public String boasVindas(){
19            return "Seja bem vindo(a) ";
20        }
21
22        @GetMapping("/boasVindas/{nome}")
23        public String boasVindas(@PathVariable String nome){
24            return "Seja bem vindo(a) " + nome;
25        }
26
27        public Pessoa pessoa(@Request){
```

Adicione a anotation e seu import

org.springframework.web.bind.annotation.RequestAttribute

Annotation to bind a method parameter to a request attribute.

The main motivation is to provide convenient access to request attributes from a controller method with an optional/required check and a cast to the target method parameter type.

- Since:
 - 4.3
- Author:
 - Rossen Stoyanchev
- See Also:
 - RequestMapping
 - SessionAttribute

- RequestAttribute - org.springframework.web.bind.a...
- RequestBody - org.springframework.web.bind.annota...
- RequestHeader - org.springframework.web.bind.annot...
- RequestMapping - org.springframework.web.bind.annot...
- RequestParam - org.springframework.web.bind.annot...
- RequestPart - org.springframework.web.bind.annot...
- RequestScope - org.springframework.web.context.an...

EXPLORER

APIS-SPRING-BOOT

- > .vscode
- < api
 - > .mvn
 - > .vscode
- < src
 - < main
 - < java
 - < br
 - < com
 - < projeto
 - < api
 - < controle
 - Controle.java 3
 - > resources
 - > test
 - > target
 - .gitignore
 - HELP.md
 - mvnw
 - mvnw.cmd
 - pom.xml
 - README.md

Controle.java 3 • Pessoajava

api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Java(

```
2
3 import org.springframework.web.bind.annotation.GetMapping;
4 import org.springframework.web.bind.annotation.PathVariable;
5 import org.springframework.web.bind.annotation.RequestBody;
6 import org.springframework.web.bind.annotation.RestController;
7
8 import br.com.projeto.api.modelo.Pessoa;
9
10 @RestController
11 public class Controle {
12
13     http://127.0.0.1:8080/
14     @GetMapping("/")
15     public String mensagem(){
16         return "Hello World";
17     }
18
19     http://127.0.0.1:8080/boasVindas
20     @GetMapping("/boasVindas")
21     public String boasVindas(){
22         return "Seja bem vindo(a) ";
23     }
24
25     @GetMapping("/boasVindas/{nome}")
26     public String boasVindas(@PathVariable String nome){
27         return "Seja bem vindo(a) " + nome;
28     }
29
30     public Pessoa pessoa(@RequestBody){}
31 }
```

The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** Controle.java - APIS-SPRING-BOOT - Visual.
- Explorer View:** Shows the project structure under "APIS-SPRING-BOOT". The "src/main/java" folder contains "br.com.projeto.api.control" which has "Controle.java" selected. Other files include "Pessoa.java" and "ApiApplication.java".
- Code Editor:** Displays the "Controle.java" file content:

```
7
8     import br.com.projeto.api.modelo.Pessoa;
9
10    @RestController
11    public class Controle {
12
13        http://127.0.0.1:8080/
14        @GetMapping("/")
15        public String mensagem(){
16            return "Hello World";
17        }
18
19        http://127.0.0.1:8080/boasVindas
20        @GetMapping("/boasVindas")
21        public String boasVindas(){
22            return "Seja bem vindo(a) ";
23
24        @GetMapping("/boasVindas/{nome}")
25        public String boasVindas(@PathVariable String nome){
26            return "Seja bem vindo(a) " + nome;
27        }
28
29        public Pessoa pessoa(@RequestBody Pessoa p){
30            return p;
31        }
32    }
```
- Annotations:** Three green arrows point from the text "Pessoa é o tipo de dado que espero" to the word "Pessoa" in the code editor.
- Text Annotations:**
 - "Pessoa é o tipo de dado que espero" is located in the upper right area.
 - "Nome desse objeto do tipo Pessoa p" is located in the middle right area.
 - "O que retornamos" is located at the bottom right area.

**Quando usamos o @RequestBody não podemos usar o @GetMapping
Pois ele não tem suporte ao @RequestBody**

Dai usamo o
@PostMapping

Lembrando que todos os verbos http tem seus POST GET DELETE UPDATE ETC...

File Edit Selection View Go Run Terminal Help • Controle.java - APIS-SPRING-BOOT - Visual Studio Code jakarta.annotation.PostConstruct

EXPLORER ... Controle.java 1 Pessoajava

APIS-SPRING-BOOT .vscode api .mvn .vscode src main java br com projeto api controle Controle.java Language Support

```
    7
    8     import br.com.projeto.api.modelo.Pessoa;
    9
   10    @RestController
   11    public class Controle {
   12
   13        http://127.0.0.1:8080/
   14        @GetMapping("/")
   15        public String mensagem(){
   16            return "Hello World";
   17
   18        http://127.0.0.1:8080/boasVindas
   19        @GetMapping("/boasVindas")
   20        public String boasVindas(){
   21            return "Seja bem vindo(a) ";
   22
   23        @GetMapping("/boasVindas/{nome}")
   24        public String boasVindas(@PathVariable String nome){
   25            return "Seja bem vindo(a) " + nome;
   26
   27
   28        @Post
   29        public void PostConstruct - jakarta.annotation
   30
   31
   32
   33
   34
   35 }
```

PROBLEMS 1 OUTPUT

TERMINAL 2023-01-22T12:43:17.507+00:00 [INFO] 3044 --- [restartedMain] br.com.projeto.apispringbootApplication : Started ApispringbootApplication in 1.861 seconds (process running for 3094.247)

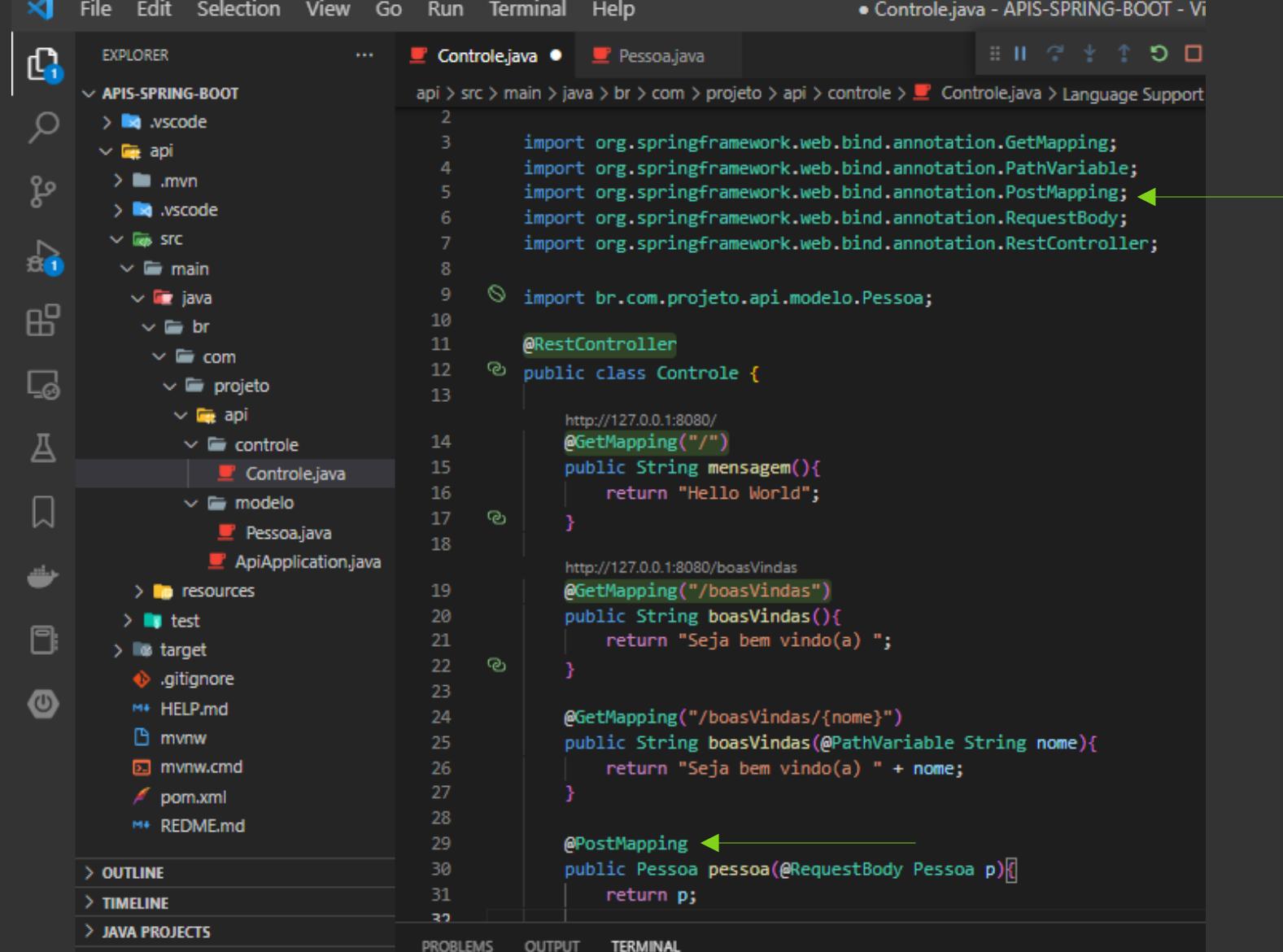
Adicionamos O post e seu import

The `PostConstruct` annotation is used on a method that needs to be executed after dependency injection is done to perform any initialization. This method must be invoked before the class is put into service. This annotation must be supported on all classes that support dependency injection. The method annotated with `PostConstruct` must be invoked even if the class does not request any resources to be injected. Only one method in a given class can be annotated with this annotation. The method on which the `PostConstruct` annotation is applied must fulfill all of the following criteria:

- The method must not have any parameters except in the case of interceptors in which case it takes an `InvocationContext` object as defined by the Jakarta Interceptors specification.
- The method defined on an interceptor class or superclass of an interceptor class must have one of the following signatures:
 - `void (InvocationContext)`
 - `Object (InvocationContext) throws Exception`

Note: A `PostConstruct` interceptor method must not throw application exceptions, but it may be declared to throw checked exceptions including the `java.lang.Exception` if the same interceptor method interposes on business or timeout methods in addition to lifecycle events. If a `PostConstruct` interceptor method returns a value, it is ignored by the container.

- The method defined on a non-interceptor class must have the following signature:



The screenshot shows the VS Code interface with the following details:

- EXPLORER:** Shows the project structure under "APIS-SPRING-BOOT".
 - src folder contains:
 - main folder contains:
 - java folder contains:
 - br folder contains:
 - com folder contains:
 - projeto folder contains:
 - api folder contains:
 - controle folder contains: Controle.java
 - CONTROLE.JAVA:** The current file being edited.

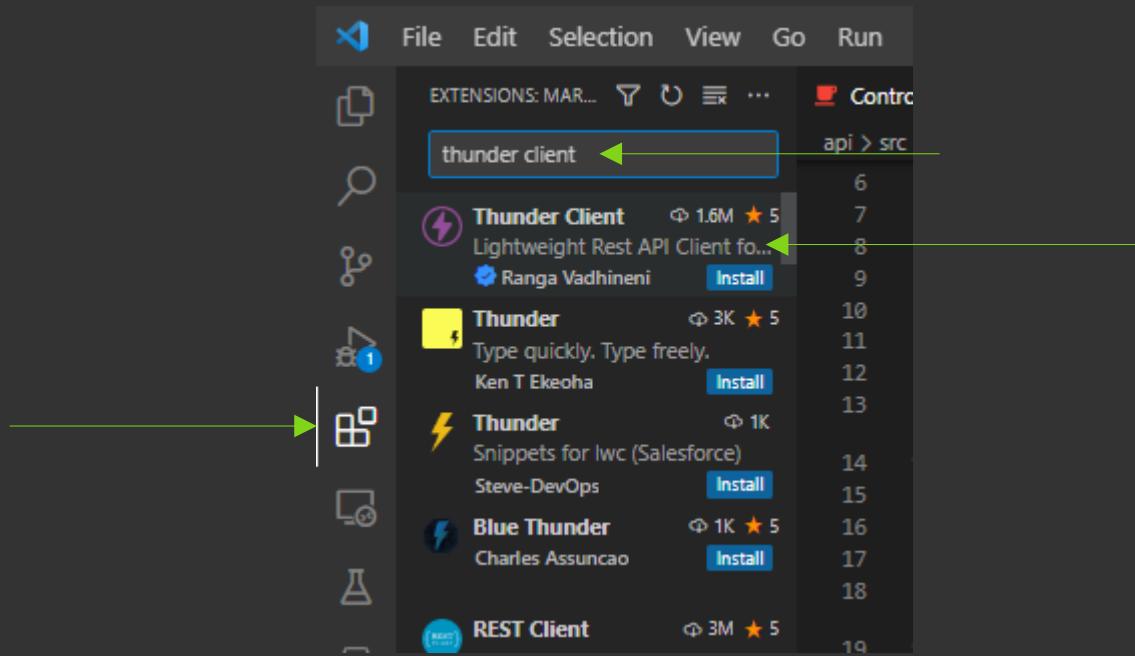
```
6 import org.springframework.web.bind.annotation.RequestBody;
7 import org.springframework.web.bind.annotation.RestController;
8
9 import br.com.projeto.api.modelo.Pessoa;
10
11 @RestController
12 public class Controle {
13
14     @GetMapping("/")
15     public String mensagem(){
16         return "Hello World";
17     }
18
19     @GetMapping("/boasVindas")
20     public String boasVindas(){
21         return "Seja bem vindo(a) ";
22     }
23
24     @GetMapping("/boasVindas/{nome}")
25     public String boasVindas(@PathVariable String nome){
26         return "Seja bem vindo(a) " + nome;
27     }
28
29     @PostMapping("/pessoa")
30     public Pessoa pessoa(@RequestBody Pessoa p){
31         return p;
32     }
33
34 }
```
 - OUTPUT:** Shows the status message "No output has been produced yet."
 - TERMINAL:** Shows the command "code ."

Por fim criamos a rota
/pessoa

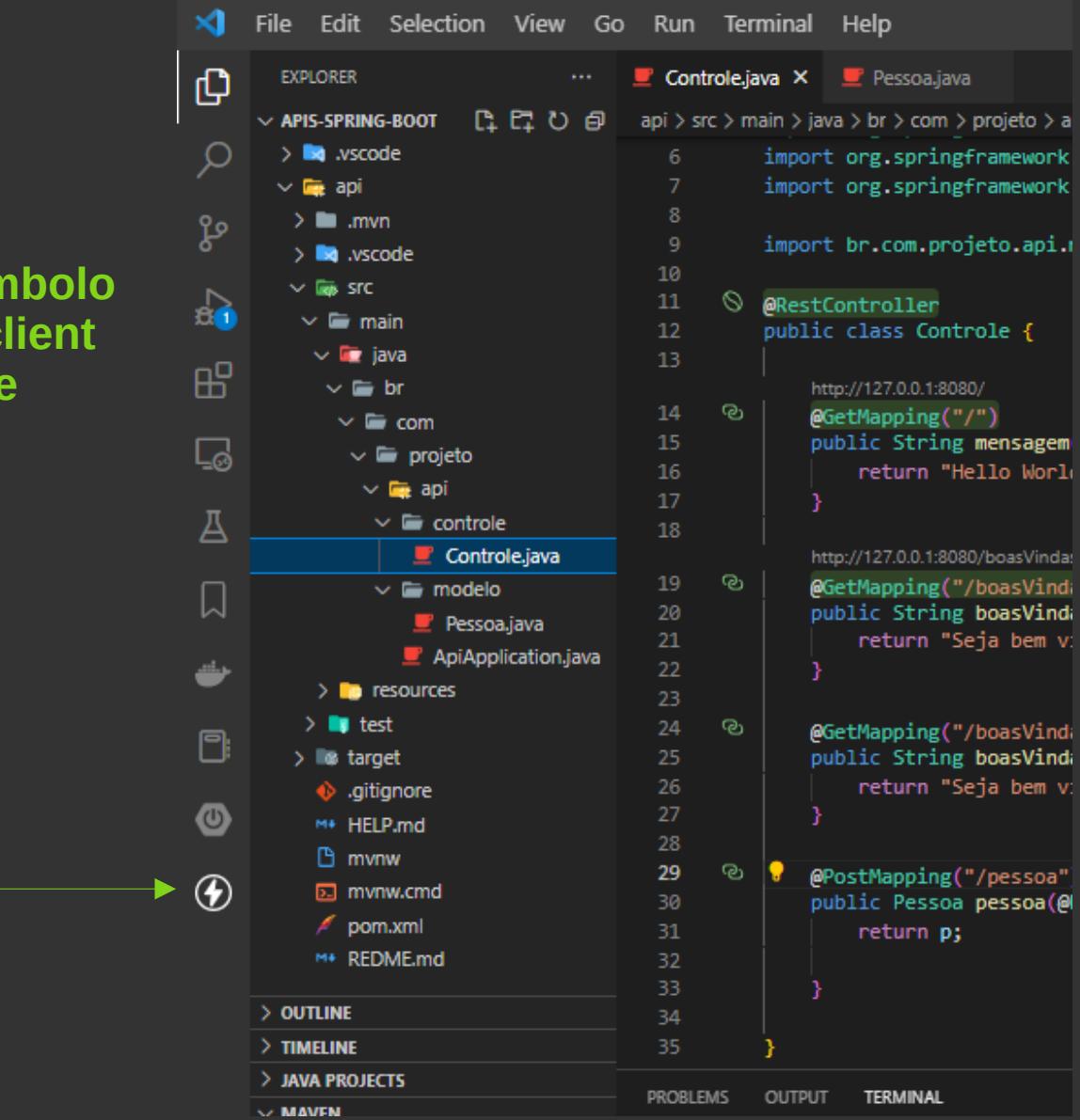
#9
Testando o projeto com thunder

Quando utilizamos o @PostMapping não podemos utilizar o navegador pois ele não tem suporte precisamos baixar uma extenção por isso vamos baixar o thunder client

Se não quisermos poderemos usar o postman ou o insomnia



Repare no simbolo
do thunder client
Click nele

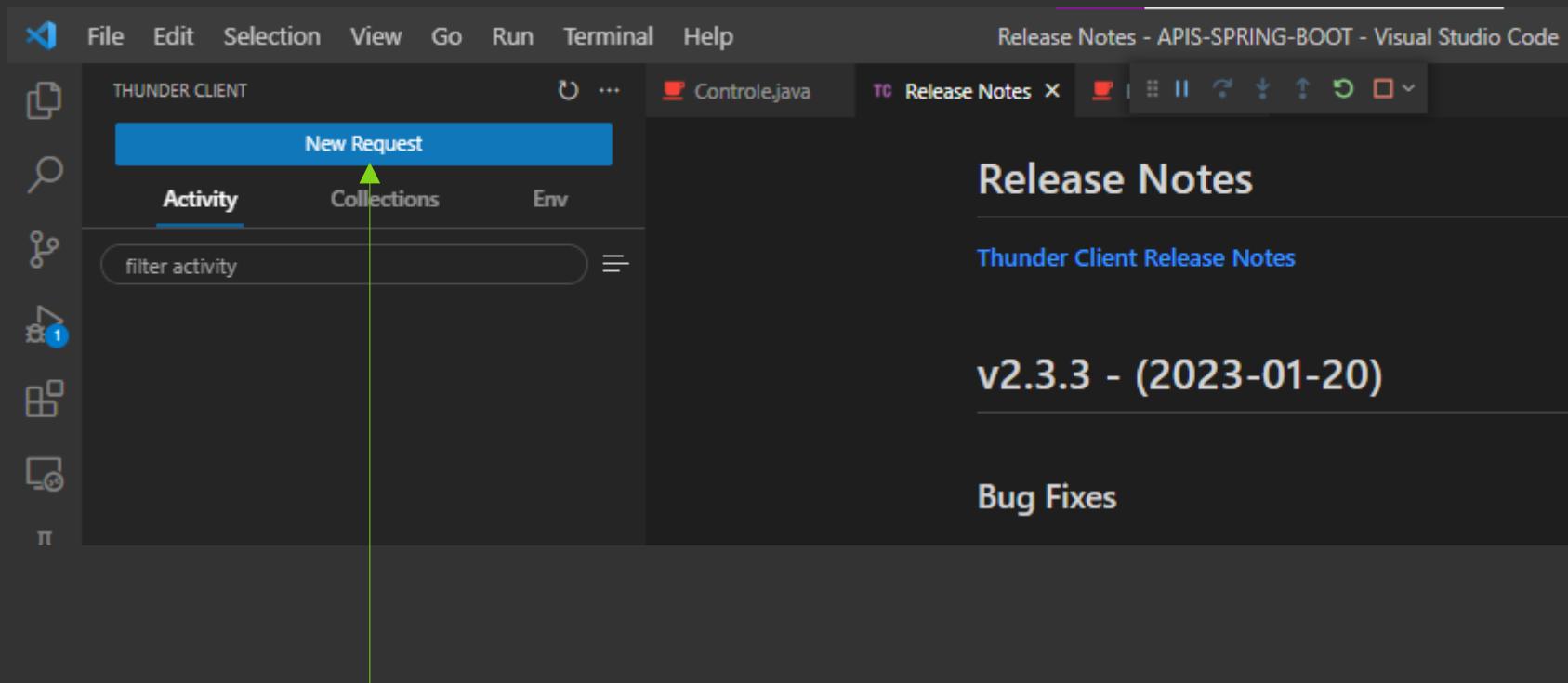


The screenshot shows the Visual Studio Code interface with the following details:

- File Menu:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Explorer Bar:** Shows the project structure under "APIS-SPRING-BOOT".
 - src folder contains main, java, br, com, projeto, api, controle, modelo, and resources.
 - java folder contains Controle.java, Pessoa.java, and ApiApplication.java.
 - resources folder contains application.properties.
 - test folder.
 - target folder.
 - gitignore file.
 - HELP.md file.
 - mvnw file.
 - mvnw.cmd file.
 - pom.xml file.
 - README.md file.
- Editor:** The file "Controle.java" is open, showing Java code for a Spring Controller.

```
6 import org.springframework.web.bind.annotation.GetMapping;
7 import org.springframework.web.bind.annotation.PostMapping;
8 import br.com.projeto.api.modelo.Pessoa;
9 import br.com.projeto.api.servico.ServicoPessoa;
10
11 @RestController
12 public class Controle {
13
14     @GetMapping("/")
15     public String mensagem() {
16         return "Hello World";
17     }
18
19     @GetMapping("/boasVindas")
20     public String boasVindas() {
21         return "Seja bem vindo!";
22     }
23
24     @GetMapping("/boasVindas")
25     public String boasVindas() {
26         return "Seja bem vindo!";
27     }
28
29     @PostMapping("/pessoa")
30     public Pessoa pessoa(@RequestBody Pessoa p) {
31         return p;
32     }
33 }
```
- Status Bar:** Shows the status "APIs-Spring-Boot" and the number "1" in the status bar.

Click em new request



File Edit Selection View Go Run Terminal Help New Request - APIS-SPRING-BOOT - Visual Studio Code

THUNDER CLIENT

New Request

Activity Collections Env filter activity

Controle.java Release Notes

GET https://www.thunderclient.com/welcome Send

Status: Size: Time:

Query Headers 2 Auth Body Tests Pre Run New Response Headers Cookies Results Docs

Query Parameters

parameter value

Welcome to Thunder Client

Your activity will appear here...

Send Request Ctrl + Enter

Import Curl Ctrl + U

Change Environment Ctrl + E

Git Sync Details

PROBLEMS OUTPUT TERMINAL

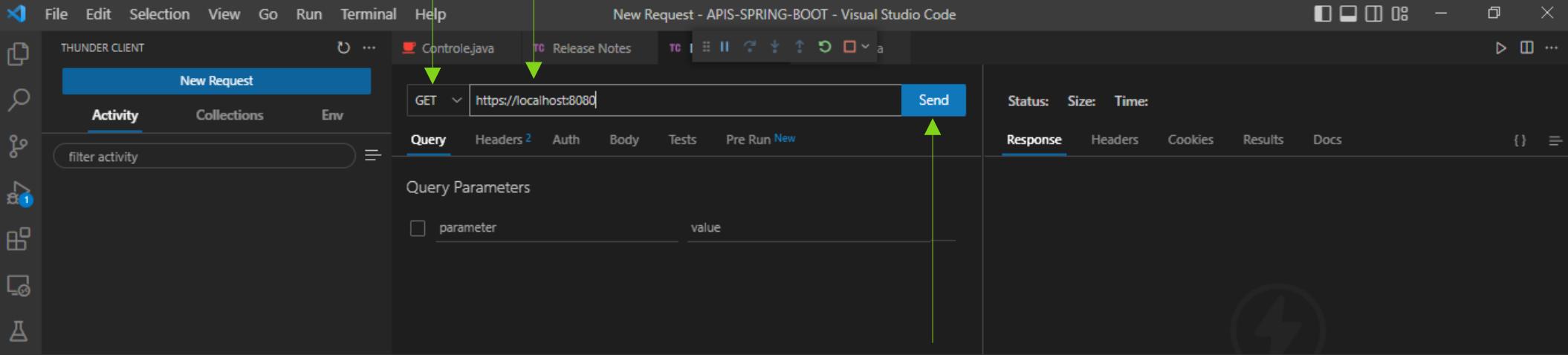
TERMINAL

```
2023-01-22T12:59:05.123-03:00 INFO 5844 --- [ restartedMain] br.com.projeto.api.ApiApplication      : Started ApiApplication in 0.798 seconds (process running for 4041.403)
2023-01-22T12:59:05.139-03:00 INFO 5844 --- [ restartedMain] .ConditionEvaluationDeltaLoggingListener : Condition evaluation unchanged
```

DEBUG CONSOLE

powershell Run: ApiAp...

31°C Parc ens... 13:09

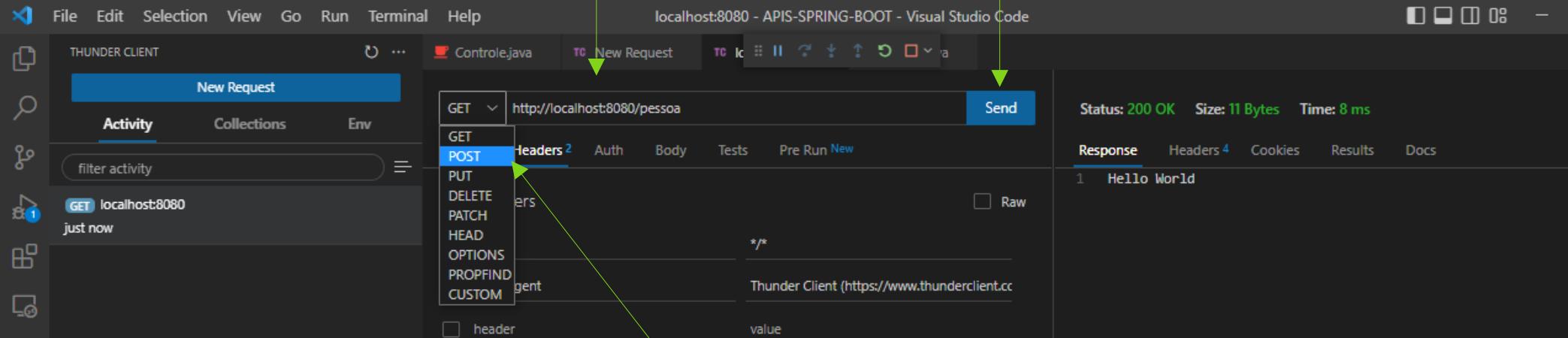


Fazemos um teste na rota hello world digite a url com o metodo get e click em send

A screenshot of the Thunder Client extension in Visual Studio Code. The interface shows a request being sent to `http://localhost:8080/`. The response status is `200 OK`, size is `11 Bytes`, and time is `8 ms`. The response body contains the text `Hello World`.

The Thunder Client sidebar shows a recent activity: a `GET` request to `localhost:8080` just now.

Como deu erro copie e coleia a própria url do navegador dai deu certo



Para acessar a rota /pessoa troque o metodo para POST cole a url e de send

File Edit Selection View Go Run Terminal Help localhost:8080 - APIS-SPRING-BOOT - Visual Studio Code

THUNDER CLIENT

New Request

Activity Collections Env

filter activity

POST localhost:8080 just now

Controle.java New Request

POST http://localhost:8080/pessoa Send

Headers 2 Query Auth Body Tests Pre Run New

Http Headers Raw

Accept */*

User-Agent Thunder Client (https://www.thunderclient.cc)

header value

Status: 400 Bad Request Size: 5.83 KB Time: 57 ms

Response Headers 4 Cookies Results Docs

```
1 {
2   "timestamp": "2023-01-22T16:16:37.356+00:00",
3   "status": 400,
4   "error": "Bad Request",
5   "trace": "org.springframework.http.converter.HttpMessageNotReadableException: Required request body is missing: public br.com.projeto.api.modelo.Pessoa br.com.projeto.api.controle.Controle.pessoa(br.com.projeto.api.modelo.Pessoa)\r\n\r\nat org.springframework.web.servlet.mvc.method.annotation.RequestResponseBodyMethodProcessor.readWithMessageConverters(RequestResponseBodyMethodProcessor.java:166)\r\n\r\nat org.springframework.web.servlet.mvc.method.annotation.RequestResponseBodyMethodProcessor.resolveArgument(RequestResponseBodyMethodProcessor.java:136)\r\n\r\nat org.springframework.web.method.support.HandlerMethodArgumentResolverComposite.resolveArgument(HandlerMethodArgumentResolverComposite.java:122)\r\n\r\nat org.springframework.web.method.support.InvocableHandlerMethod.getMethodArgumentValues(InvocableHandlerMethod.java:181)\r\n\r\nat org.springframework.web.method.support.InvocableHandlerMethod.invokeForRequest(InvocableHandlerMethod.java:148)\r\n\r\nat org.springframework.web.servlet.mvc.method.annotation.ServletInvocableHandlerMethod.invokeAndHandle(ServletInvocableHandlerMethod.java:117)\r\n\r\nat org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter.invokeHandlerMethod(RequestMappingHandlerAdapter.java:884)\r\n\r\nat org.springframework.web.servlet.mvc.method.annotation
```

Deu esse erro pois essa rota espera uma informação via body

PROBLEMS OUTPUT TERMINAL

TERMINAL

```
ted initialization in 1 ms
2023-01-22T13:16:37.351-03:00  WARN 5844 --- [nio-8080-exec-8] .w.s.m.s.DefaultHandlerExceptionResolver : Resolved [org.springframework.http.converter.HttpMessageNotReadableException: Required request body is missing: public br.com.projeto.api.modelo.Pessoa br.com.projeto.api.controle.Controle.pessoa(br.com.projeto.api.modelo.Pessoa)]
```

DEBUG CONSOLE

powershell Run: ApiApp...

31°C Parc ens... 13:16

Click em body

Lembre-se que json não é o único formato temos xml entre outros mais o mais utilizado é jason veja qual eles estão pedindo nesse caso é json e na grande maioria sera

A screenshot of the Thunder Client extension in Visual Studio Code. The interface shows a 'New Request' dialog with the following details:

- Method: POST
- Endpoint: http://localhost:8080/pessoa
- Body tab selected
- Content type: Json
- JSON Content:

```
1 {  
2     "nome": "Cristiano",  
3     "idade": 40  
4 }
```

The 'Send' button is highlighted with a blue arrow pointing to it. To the right, the response area is visible with tabs for Response, Headers, Cookies, Results, and Docs. A large green arrow points from the bottom text towards the 'Send' button.

No body crie seu objeto json
E depois click em send

File Edit Selection View Go Run Terminal Help localhost:8080 - APIS-SPRING-BOOT - Visual Studio Code

THUNDER CLIENT ApiApplication.java localhost:8080

New Request

Activity Collections Env

filter activity

POST localhost:8080 just now

POST http://localhost:8080/pessoa Send

Query Headers 2 Auth Body 1 Tests Pre Run New

Json Xml Text Form Form-encode Graphql Binary

Json Content Format

```
1 {  
2   "nome": "Cristiano",  
3   "idade": 40  
4 }
```

Status: 200 OK Size: 33 Bytes Time: 187 ms

Response Headers 4 Cookies Results Docs

```
1 {  
2   "nome": "Cristiano",  
3   "idade": "40"  
4 }
```

Conseguimos passar o objeto via body
Desse jeito os dados não são passados
pela url e você pode até passar senhas

PROBLEMS OUTPUT TERMINAL

TERMINAL

```
(s): 8080 (http) with context path ''  
2023-01-22T13:41:41.901-03:00 INFO 10316 --- [ restartedMain] br.com.projeto.api.ApiApplication  
in 18.894 seconds (process running for 22.481)  
2023-01-22T13:41:52.193-03:00 INFO 10316 --- [nio-8080-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/]  
spatcherServlet 'dispatcherServlet'  
2023-01-22T13:41:52.194-03:00 INFO 10316 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet  
dispatcherServlet:  
2023-01-22T13:41:52.200-03:00 INFO 10316 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet  
on in 4 ms
```

DEBUG CONSOLE

: Started ApiApplication
: Initializing Spring Di
: Initializing Servlet '
: Completed initializati

powershell Run: ApiAp...

31°C Parc ens... 13:45

#10
Criando a base de dados

Nesse passo podemos usar o mysql ou qualquer outro tipo para criar a base de dados
Nesse caso usarei uma extensão para mysql no próprio vscode

File Edit Selection View Go Run Terminal Help

Extension: MySQL - APIS-SPRING-BOOT - Visual Studio Code

EXTENSIONS: MARKETPLACE

mysql

- MySQL** v1.1M ★ 3.5
MySQL management tool
Jun Han [Install](#)
- MySQL** v767K ★ 4
Database manager for MySQL/Maria...
WeiJian Chen [Install](#)
- MySQL Syntax** v430K ★ 3
MySQL syntax highlighting support
Jake Bathman [Install](#)
- SQLTools MySQL/Mari...** v519K ★ 5
SQLTools MySQL/MariaDB
Matheus Teixeira [Install](#)
- mysql-inline-decorator** v108K ★ 3
Add color coding to inline MySQL st...
odubuc [Install](#)
- MySQL Autocomplete** v24K ★ 5
MySQL Sintax Autocomplete for Vis...
nospinozacr [Install](#)
- MySQL Statement Scr...** v41K ★ 5
Easy mysql statement running with s...
Jared Black [Install](#)
- ES7 JavaScript/Node/...** v38K ★ 5
Simple extension for Node, javascript...
abrahamwilliam007 [Install](#)
- SQLite & MySQL Snipp...** v27K ★ 5
A snippet for MySQL and SQLite, to ...
Rohit Chouhan [Install](#)
- MySQL Tool** v2K ★ 4.5

Extension: MySQL X

MySQL v6.1.3

Weijan Chen | 767,140 | ★★★★☆(191)

Database manager for MySQL/MariaDB, PostgreSQL, SQLite, Redis and ElasticSearch.

[Install](#)

Details Feature Contributions Changelog

Database Client

This project is no longer maintain for free and requires payment to unlock all features. At the same time I will put more effort into developing this project.

The online document is migrate to [doc.database-client.com](#).

vscode marketplace v6.1.3 installs 767k stars 2k rating 4.1/5 (191) license MIT

This project is a database client for VSCode, supports manager MySQL/MariaDB, PostgreSQL, SQLite, Redis, ClickHouse, 达梦, and ElasticSearch, and works as an SSH client, boost your maximum productivity!

Project site: [vscode-database-client](#), 中文文档

PROBLEMS OUTPUT TERMINAL

TERMINAL

DEBUG CONSOLE

Categories

Programming Languages Keymaps

Extension Resources

Marketplace Repository License Weijan Chen

More Info

Published 5/5/2020, 05:03:00
Last released 1/13/2023, 19:54:23
Identifier cweijan.vscode-mysql-client?

Va em extensões e instale essa extensão para o mysql

EXTENSIONS: MARKETPLACE

mysql

- MySQL** v1.1M ★ 3.5
MySQL management tool
Jun Han [Install](#)
- MySQL** Database manager for MySQL/Maria...
Weijan Chen [Install](#)
- MySQL Syntax** v430K ★ 3
MySQL syntax highlighting support
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- SQLTools MySQL/Mari...** v519K ★ 5
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A snippet for MySQL and SQLite, to ...
Rohit Chouhan [Install](#)
- MySQL Tool** v2K ★ 4.5
MySQL management tool is a unifie...
wycliffe Pepela [Install](#)
- MySQL Inline Decorator...** v1K ★ 5
Ilyas Akin [Install](#)
- Go MySQL Highlighter** v5K ★ 5
Syntax highlights MySQL strings in G...
Stirling Marketing Group [Install](#)

Extension: MySQL X



MySQL v6.1.3

Weijan Chen | 767,140 | ★★★★☆(191)

Database manager for MySQL/MariaDB, PostgreSQL, SQLite, Redis and ElasticSearch.

[Disable](#) [Uninstall](#) [⚙️](#)

This extension is enabled globally.

[Details](#) [Feature Contributions](#) [Changelog](#)

Database Client

This project is no longer maintain for free and requires payment to unlock all features. At the same time I will put more effort into developing this project.

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PROBLEMS OUTPUT TERMINAL

TERMINAL

```
(s): 8080 (http) with context path ""
2023-01-22T13:41:41.901-03:00 INFO 10316 --- [ restartedMain] br.com.projeto.api.ApiApplication : Started ApiApp...
2023-01-22T13:41:41.901-03:00 INFO 10316 --- [nio-8080-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Sp...
2023-01-22T13:41:52.193-03:00 INFO 10316 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Initializing Se...
2023-01-22T13:41:52.194-03:00 INFO 10316 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Completed initi...
2023-01-22T13:41:52.200-03:00 INFO 10316 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Initialization in 4 ms
```

DEBUG CONSOLE

powershell

Run: ApiAp...

Categories

Programming Languages Keymaps

Extension Resources

Marketplace Repository License Weijan Chen

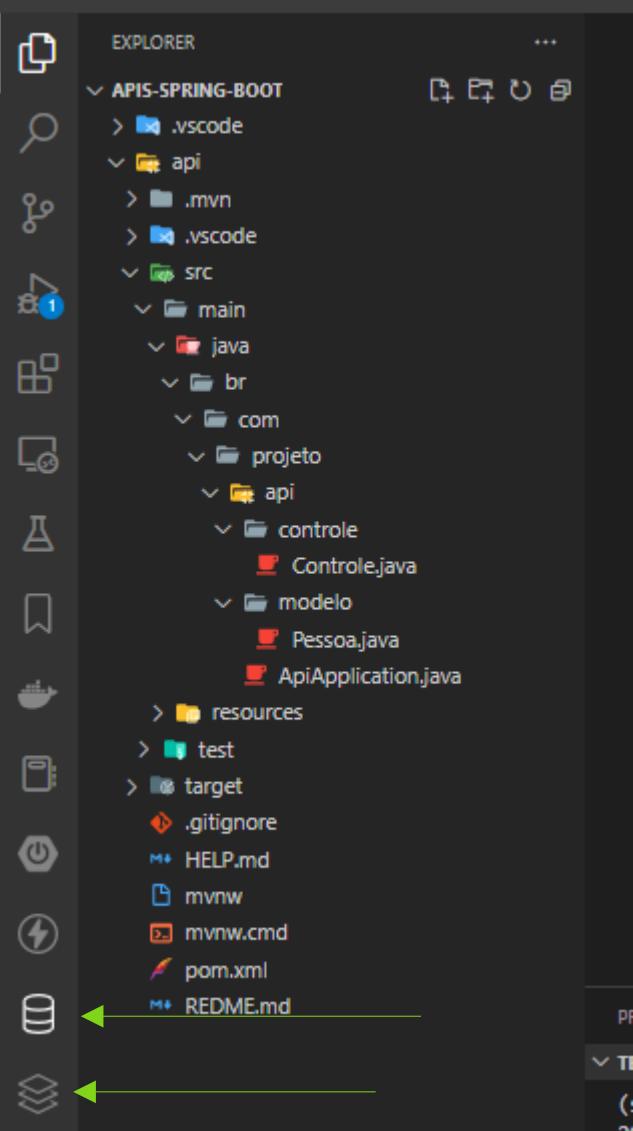
More Info

Published 5/5/2020, 05:03:00 Last released 1/13/2023, 19:54:23

File Edit Selection View Go Run Terminal Help Extension: MySQL - APIS-SPRING-BOOT - Visual Studio Code

31°C Parc ens... 13:53

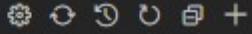
File Edit Selection View Go Run Terminal



Ela cria 2 atalhos click no database



DATABASE



You haven't created any connections [learn more.](#)



Create Connection

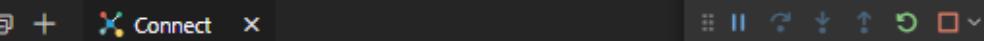


PROBLE

TERMIN

(s): 8

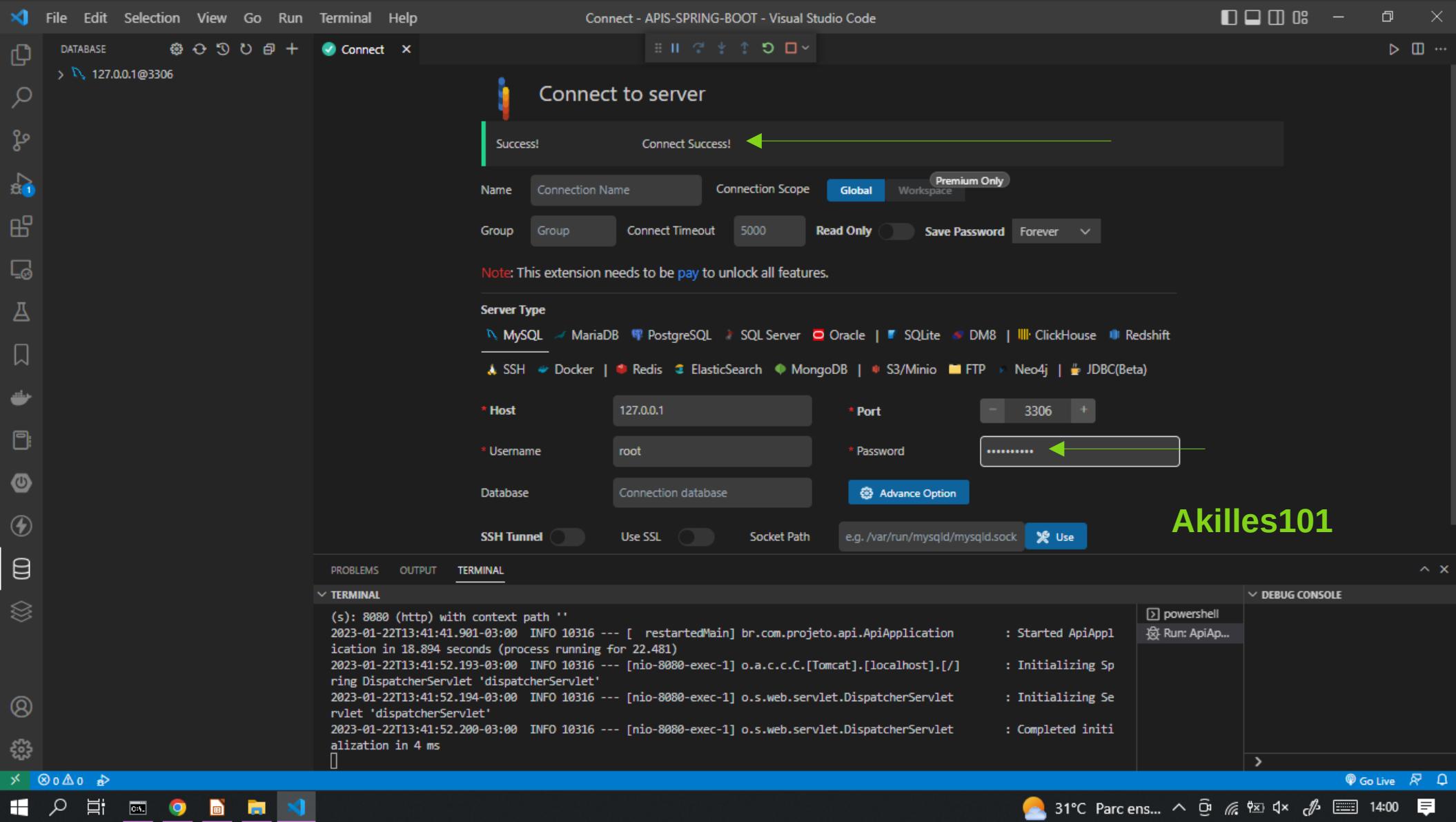




Deixei os dados como
estão só mudei a senha
Depois click em connect

Akilles101

A senha é a verdadeira do mysql



Aqui estão as bases de dados do mysql

File Edit Selection View Go Run Terminal Help Connect - APIS-SPRING-BOOT - Visual Studio Code

DATABASE 127.0.0.1@3306 + -

Connect to server

Success! Connect Success!

Name Connection Name Connection Scope Global Premium Only

Group Group Connect Timeout 5000 Read Only Save Password Forever

Note: This extension needs to be pay to unlock all features.

Server Type

MySQL MariaDB PostgreSQL SQL Server Oracle SQLite DM8 ClickHouse Redshift

SSH Docker Redis ElasticSearch MongoDB S3/Minio FTP Neo4j JDBC(Beta)

* Host 127.0.0.1 * Port 3306

* Username root * Password

Database Connection database Advance Option

SSH Tunnel Use SSL Socket Path e.g. /var/run/mysql/mysqld.sock Use

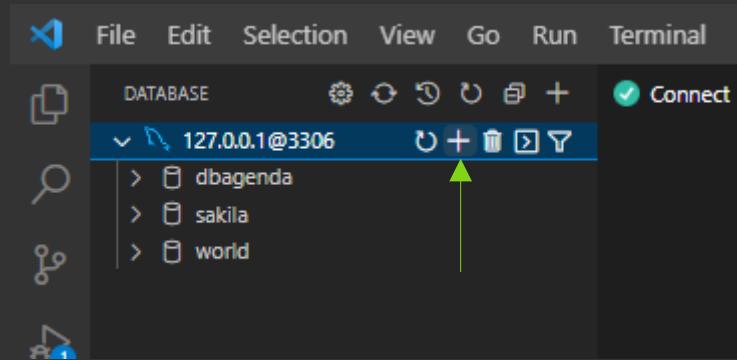
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

TERMINAL

```
(s): 8080 (http) with context path ""
2023-01-22T13:41:41.901-03:00 INFO 10316 --- [ restartedMain] br.com.projeto.api.ApiApplication : Started ApiAppl
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2023-01-22T13:41:52.193-03:00 INFO 10316 --- [nio-8080-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Sp
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2023-01-22T13:41:52.194-03:00 INFO 10316 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Initializing Se
rvlet 'dispatcherServlet'
2023-01-22T13:41:52.200-03:00 INFO 10316 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Completed initi
alization in 4 ms
[
```

powershell Run: ApiAp...

31°C Parc ens... Go Live 14:01



Click no sinal de + para criar o banco de dados

The screenshot shows the MySQL Workbench application window. The top menu bar includes File, Edit, Selection, View, Go, Run, Terminal, and Help. The title bar displays "create-db-template.sql - APIS-SPRING-BOOT - Visual Studio". The left sidebar has icons for Database, Schema, User, and Session, with "DATABASE" selected. Below it, a connection tree shows "127.0.0.1@3306" expanded, listing databases "dbagenda", "sakila", and "world". The main workspace contains a terminal window with the following content:

```
C: > Users > brito > AppData > Roaming > Code > User > globalStorage > cweijan.vscode-mysql-client2 > 16
    ⚡ Active Connection
    ↴ 1   -- Active: 1674406792944@127.0.0.1@3306 MySQL
        ▷ Execute
    2   CREATE DATABASE |
    3   |   DEFAULT CHARACTER SET = 'utf8mb4';
```

The screenshot shows the MySQL Workbench application. On the left, there's a sidebar with icons for File, Edit, Selection, View, Go, Run, Terminal, and Help. Below that is a database browser pane showing a connection to '127.0.0.1@3306' with databases 'dbagenda', 'sakila', and 'world'. The main area is a terminal window titled 'create-db-template.sql' which contains the following SQL code:

```
1 Active Connection
2 Active: 1674406792944@127.0.0.1@3306 MySQL
3 CREATE DATABASE api_spring
4     DEFAULT CHARACTER SET = 'utf8mb4';
```

Depois de dar nome api_spring click em execute

File Edit Selection View Go Run Terminal Help • create-db-template.sql - APIS-SPRING-BOOT - Visual Studio Code

DATABASE 127.0.0.1@3306 8.0.25 Connect create-db-template.sql

C:\> Users > brito > AppData > Roaming > Code > User > globalStorage > cweijan.vscode-mysql-client2 > 1674406792944@127.0.0.1@3306 > create-db-template.sql > ...

Active Connection
1 Active: 1674406792944@127.0.0.1@3306 MySQL
Execute
2 CREATE DATABASE api_spring
3 DEFAULT CHARACTER SET = 'utf8mb4';

Data

CREATE DATABASE api_spring
DEFAULT CHARACTER SET = 'utf8mb4'

+ Input to filter result Free 1 Cost: 536ms < >

CREATE DATABASE api_spring DEFAULT CHARACTER SET = 'utf8mb4'

AffectedRows : 1

Veja que o banco de dados foi criado

PROBLEMS OUTPUT TERMINAL

TERMINAL

```
(s): 8080 (http) with context path ""
2023-01-22T13:41:41.901-03:00 INFO 10316 --- [ restartedMain] br.com.projeto.api.ApiApplication      : Started ApiAppl
ication in 18.894 seconds (process running for 22.481)
2023-01-22T13:41:52.193-03:00 INFO 10316 --- [nio-8080-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/]      : Initializing Sp
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rvlet 'dispatcherServlet'
2023-01-22T13:41:52.200-03:00 INFO 10316 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet      : Completed initi
alization in 4 ms
```

DEBUG CONSOLE

powershell
Run: ApiAp...

Ln 3, Col 39 Spaces: 4 UTF-8 CRLF SQL Go Live

31°C Parc ens... 14:05

Continua na #11

