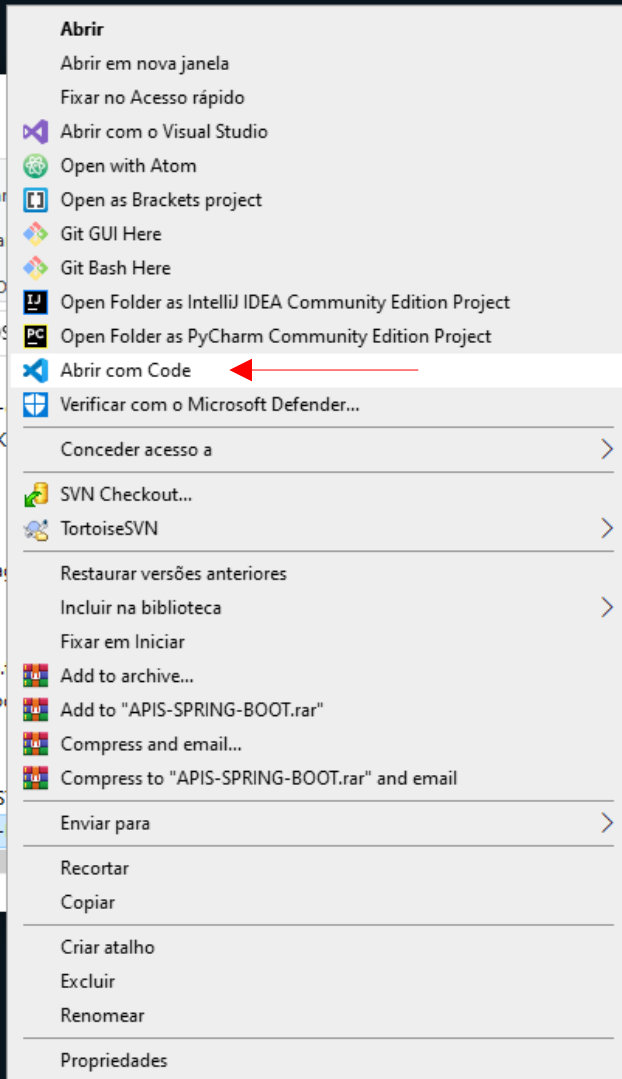
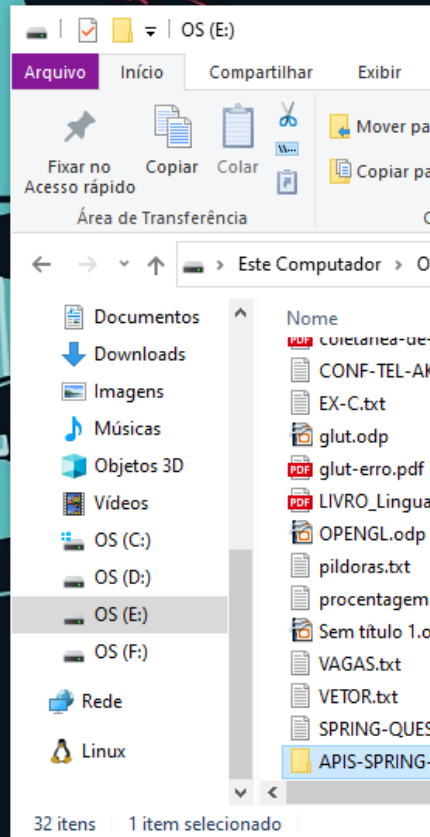
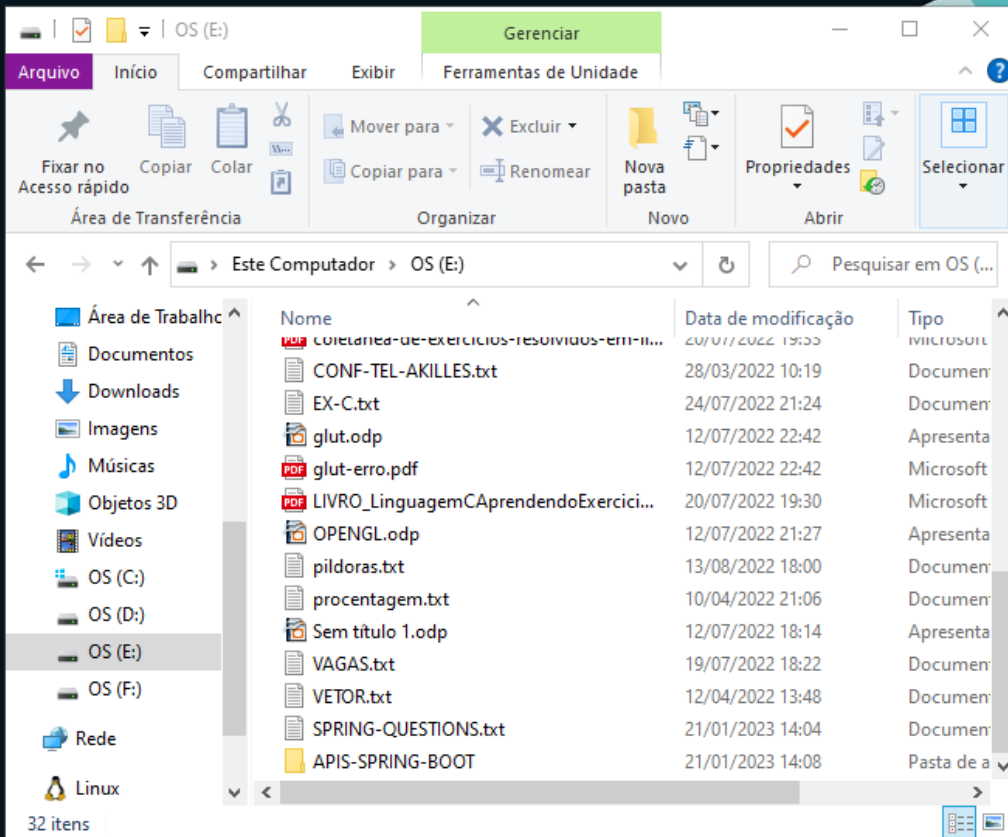


**JAVA SPRING BOOT
2023
NANO**

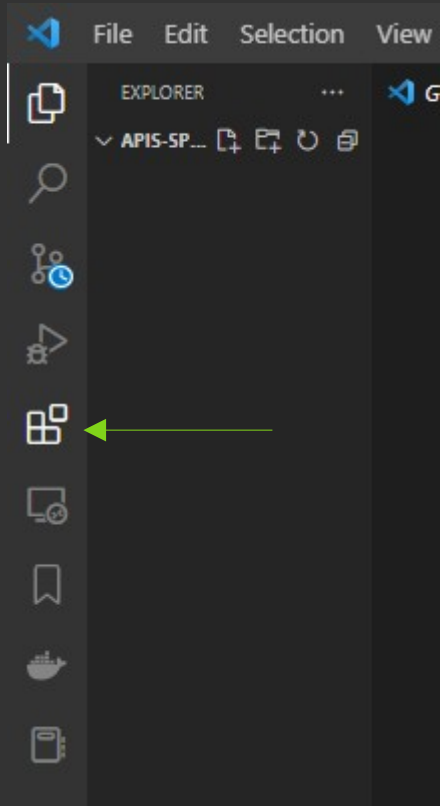
CONFIGURANDO O VISUAL ESTUDIO CODE

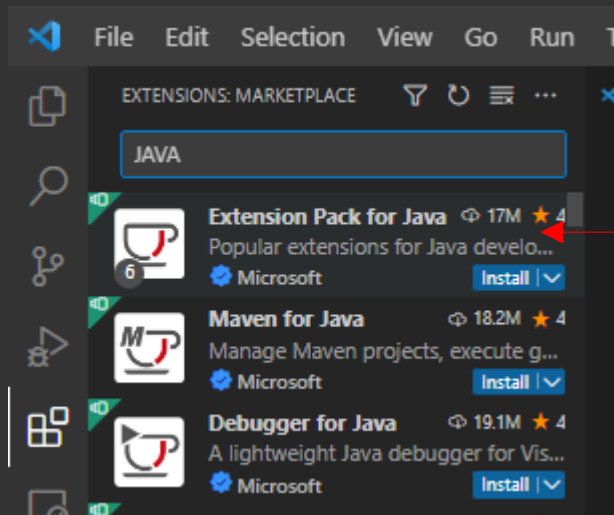


CRIE UMA PASTA E ABRA ELA COM O VSCODE



INSTALANDO AS EXTENSÕES NECESSÁRIAS





EXTENSIONS: MARKETPLACE

JAVA

- Extension Pack for Java** 17M ★ 4
Popular extensions for Java development
Microsoft [Install](#)
- Maven for Java** 18.2M ★ 4
Manage Maven projects, execute goals, generate...
Microsoft [Install](#)
- Debugger for Java** 19.1M ★ 4
A lightweight Java debugger for Visual Studio Code
Microsoft [Install](#)
- Project Manager for Java** 17M ★ 4
Manage Java projects in Visual Studio Code
Microsoft [Install](#)
- Test Runner for Java** 17.5M ★ 4
Run and debug JUnit or TestNG tests
Microsoft [Install](#)
- Language Support for Java(TM) by Red Hat** 21.2M ★ 3.5
Java Linting, Intellisense, formatting, refactoring...
Red Hat [Install](#)
- Spring Initializr Java Support** 2M ★ 3.5
A lightweight extension based on Spring Initializr
Microsoft [Install](#)
- 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, variables, etc.)
Microsoft [Install](#)

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](#)



[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...
Red Hat [Install](#)



Debugger for Java
A lightweight Java debugger for Visual Studio Code
Microsoft [Install](#)



Maven for Java
Manage Maven projects, execute goals, generate...
Microsoft [Install](#)

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

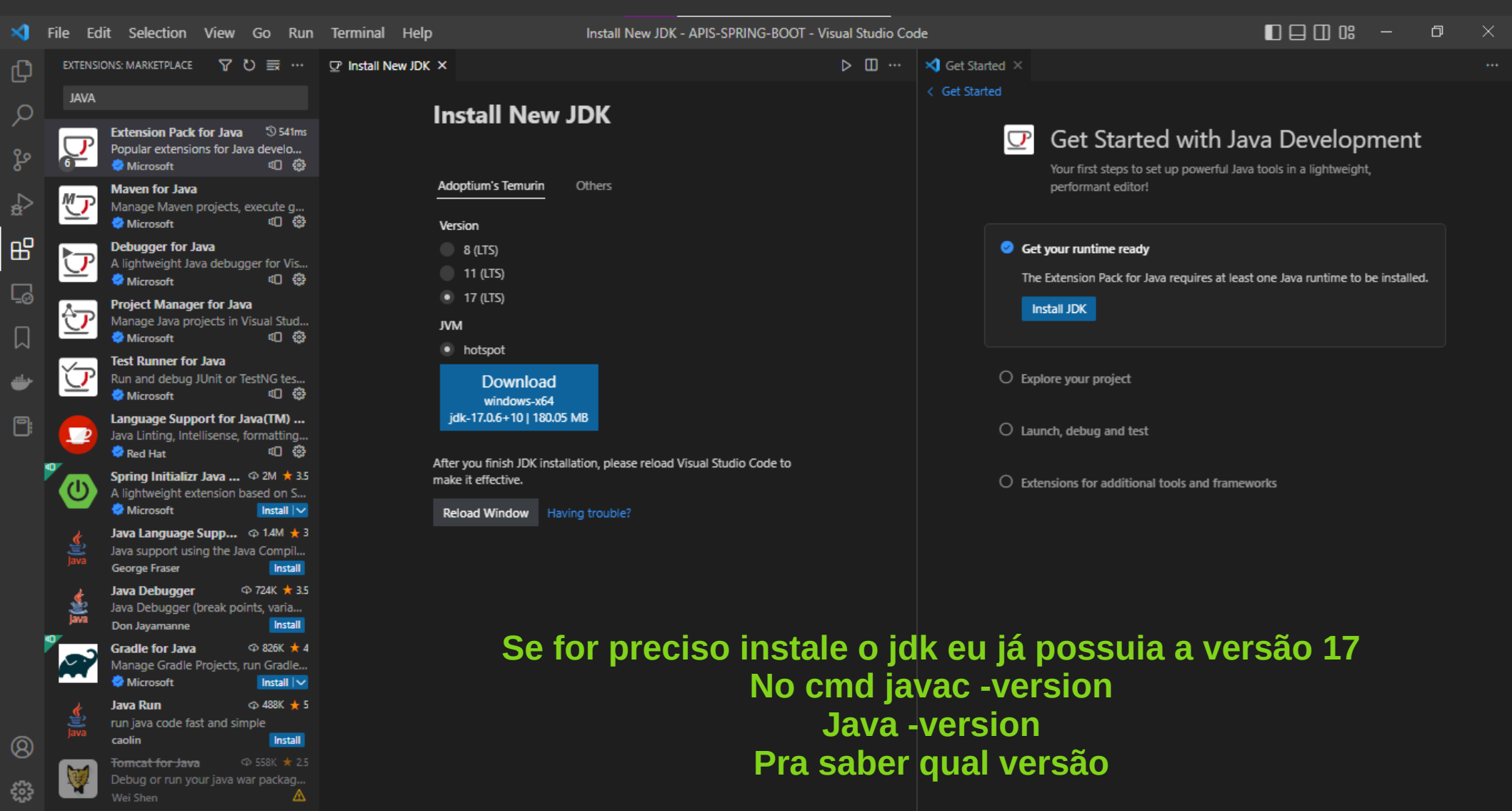
[Programming Languages](#) [Snippets](#)
[Linters](#) [Debuggers](#) [Formatters](#)
[Extension Packs](#)

Extension Resources

[Marketplace](#)
[Repository](#)
[License](#)
[Microsoft](#)

More Info

Published 9/27/2017, 06:30
Last released 11/29/2022, 02:30



Se for preciso instale o jdk eu já possuía 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...
Microsoft [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

Spring Boot Extension Pack v0.2.0

Pivotal | 1,375,369 | ★★★★★ (13)

A collection of extensions for developing Spring Boot applications

[Install](#) [Settings](#)

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

Extension Pack (3)

- Spring Initializr Java Support**
A lightweight extension based on Spring Initi...
Microsoft [Install](#)

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 .yaml)

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

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

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** 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!
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Useful extensions needed for effectively develop...
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Spring Theme ported from the Spring TextMate ...
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Microsoft
- Azure Spring Apps** 5K ★ 5
An Azure Spring Apps extension for Visual Studi...
Microsoft **Install**

Extension: Spring Boot Extension Pack

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 Initi...
Microsoft

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

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Spring Initializr Java

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Spring Boot Dashboard

Categories

[Programming Languages](#) [Linters](#)

[Extension Packs](#)

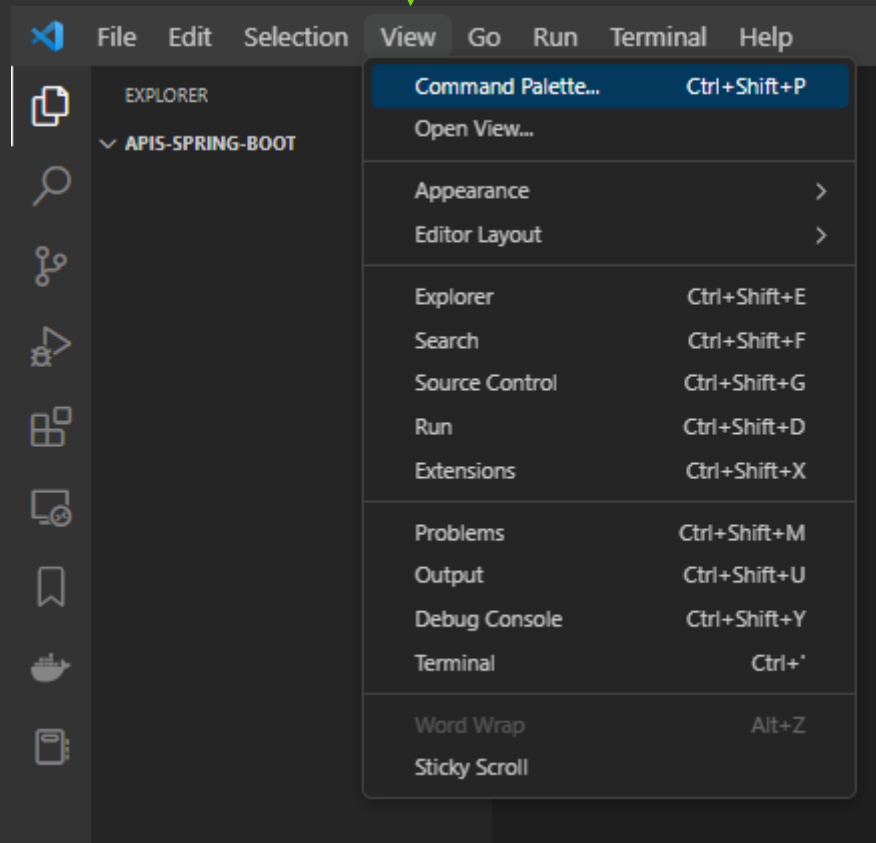
Extension Resources

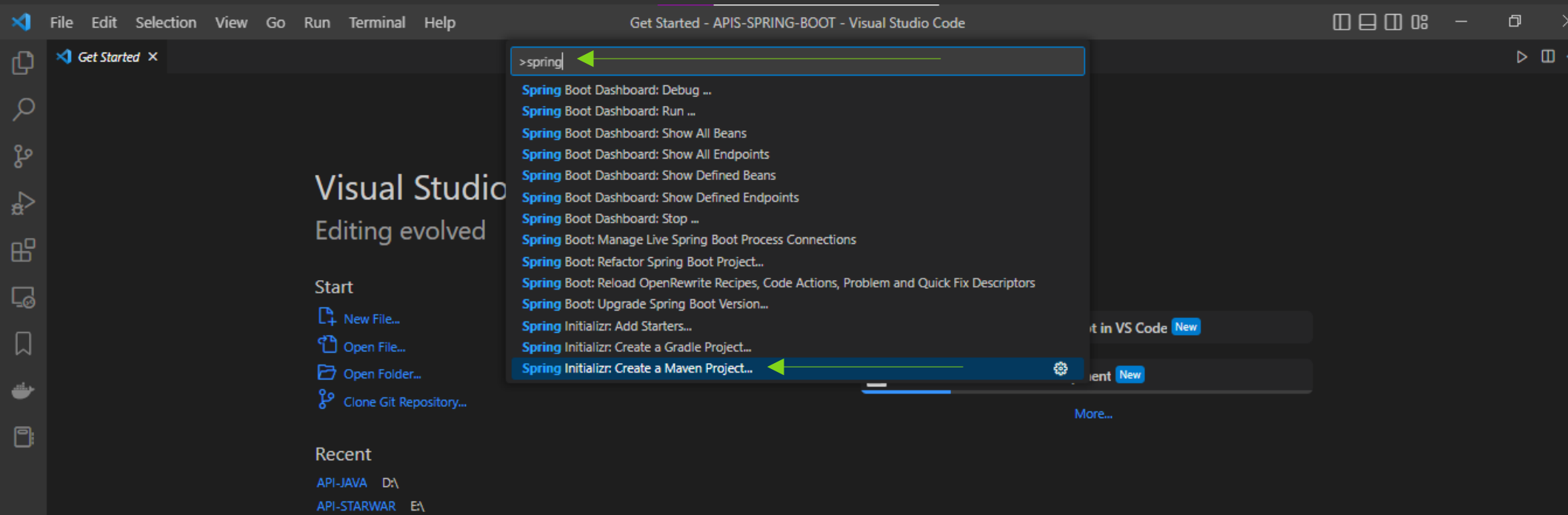
[Marketplace](#)
[Repository](#)
[Pivotal](#)

More Info

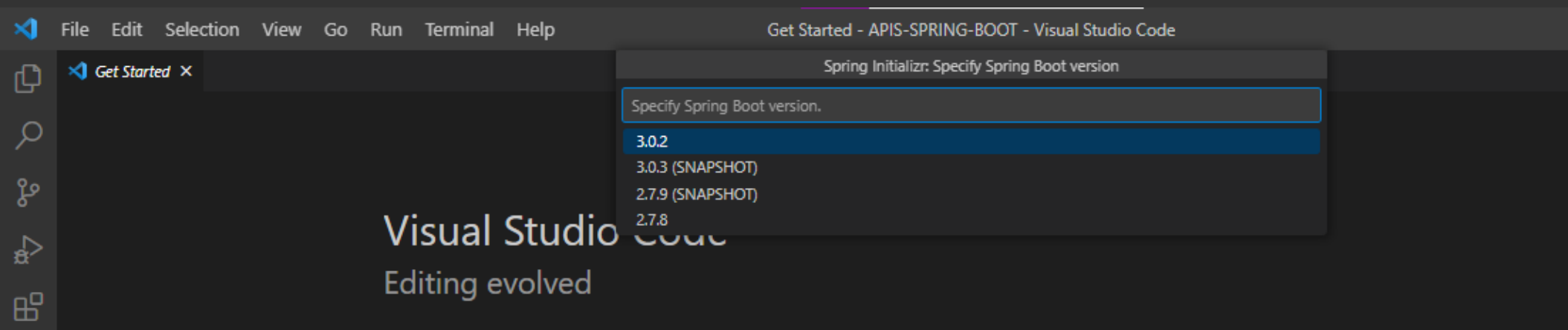
Published	11/28/2017, 17:43:15
Last released	12/14/2022, 10:57:22
Identifier	pivotal.vscode-boot-dev-pack

CRIANDO O PROJETO

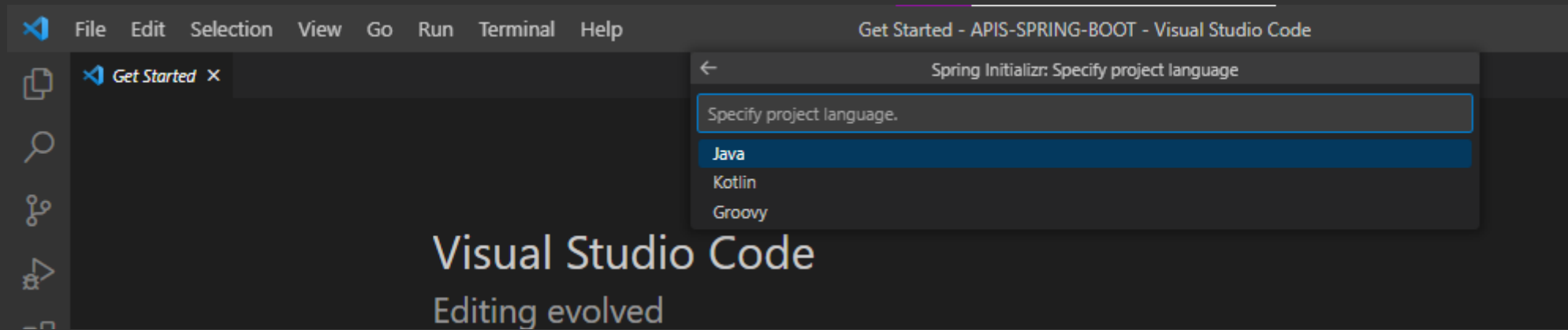




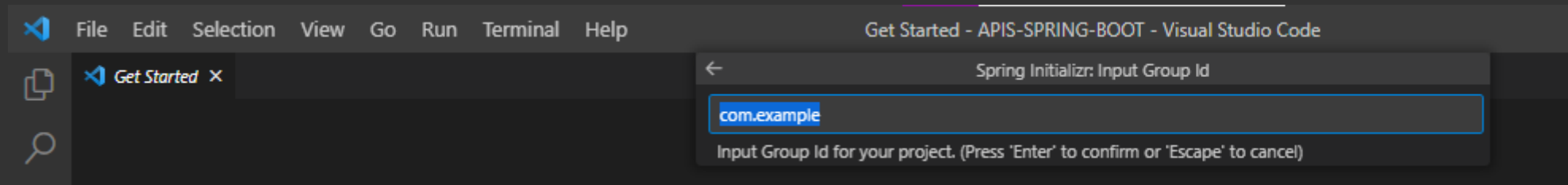
Digite spring e adicione spring inicializr do maven
Essa que esta marcada ai



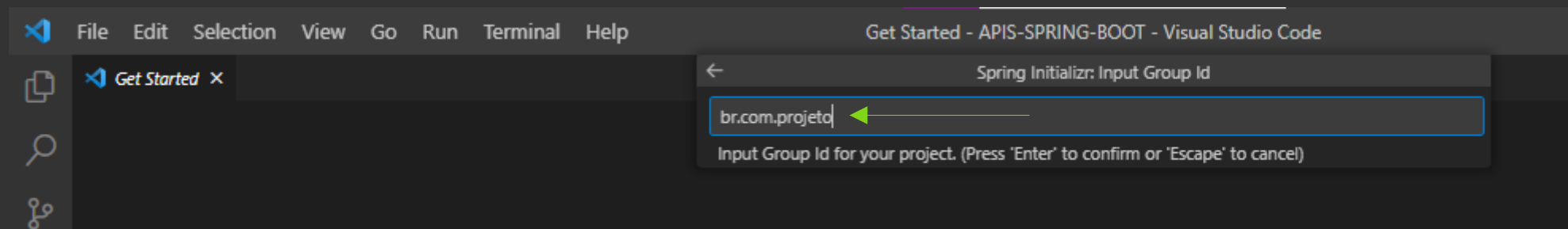
Escolha sua versão nada impede de troca-la mais tarde



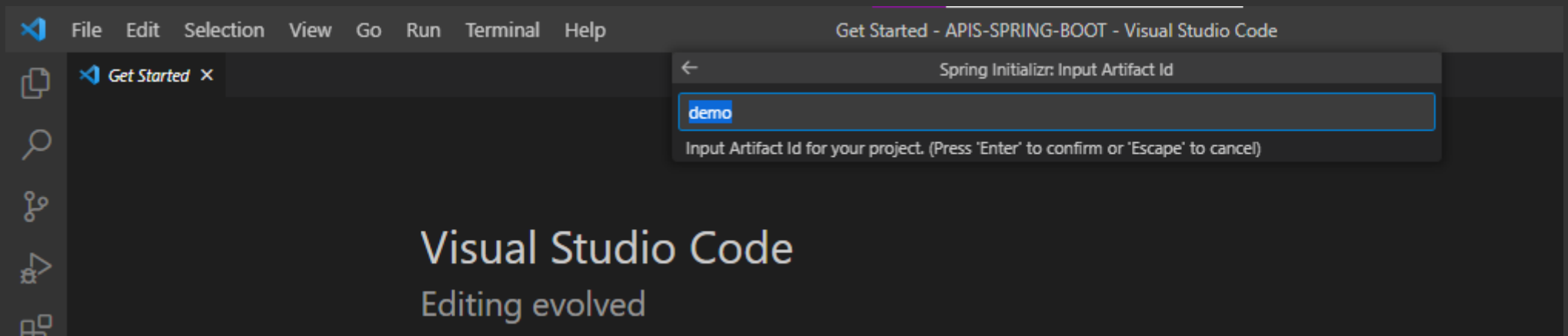
Escolha a linguagem do projeto



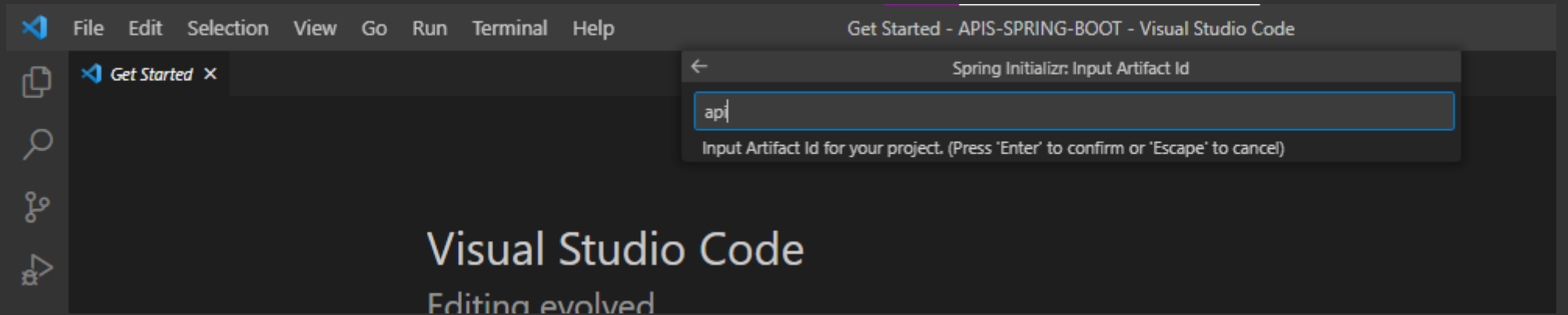
Group é o lugar onde vai ficar o projeto

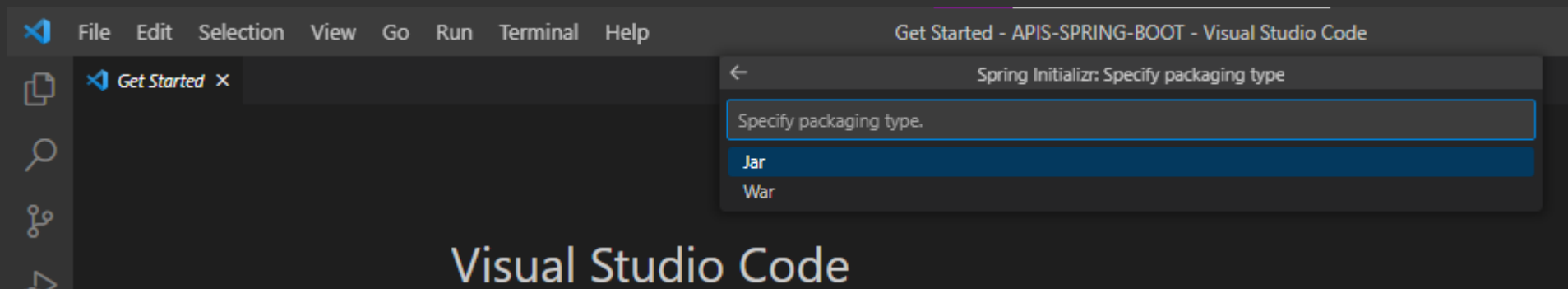


Depois de dar o nome tecla enter

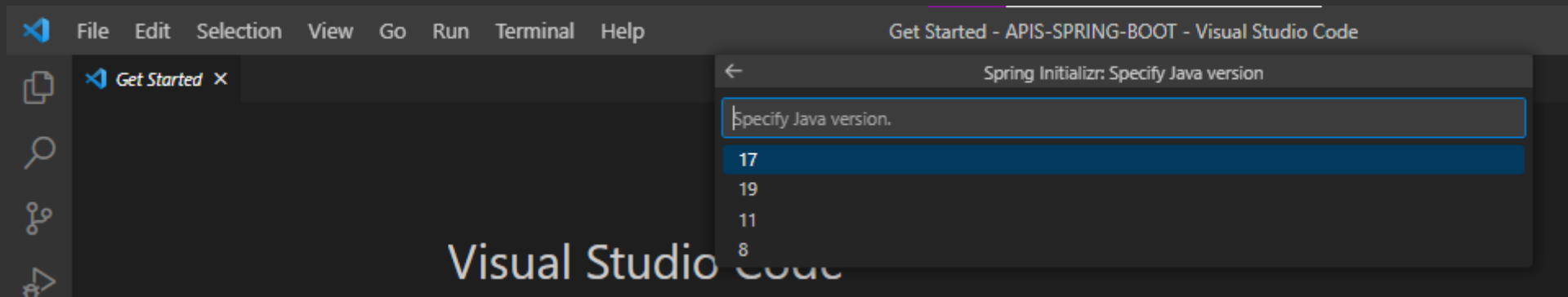


De nome ao projeto

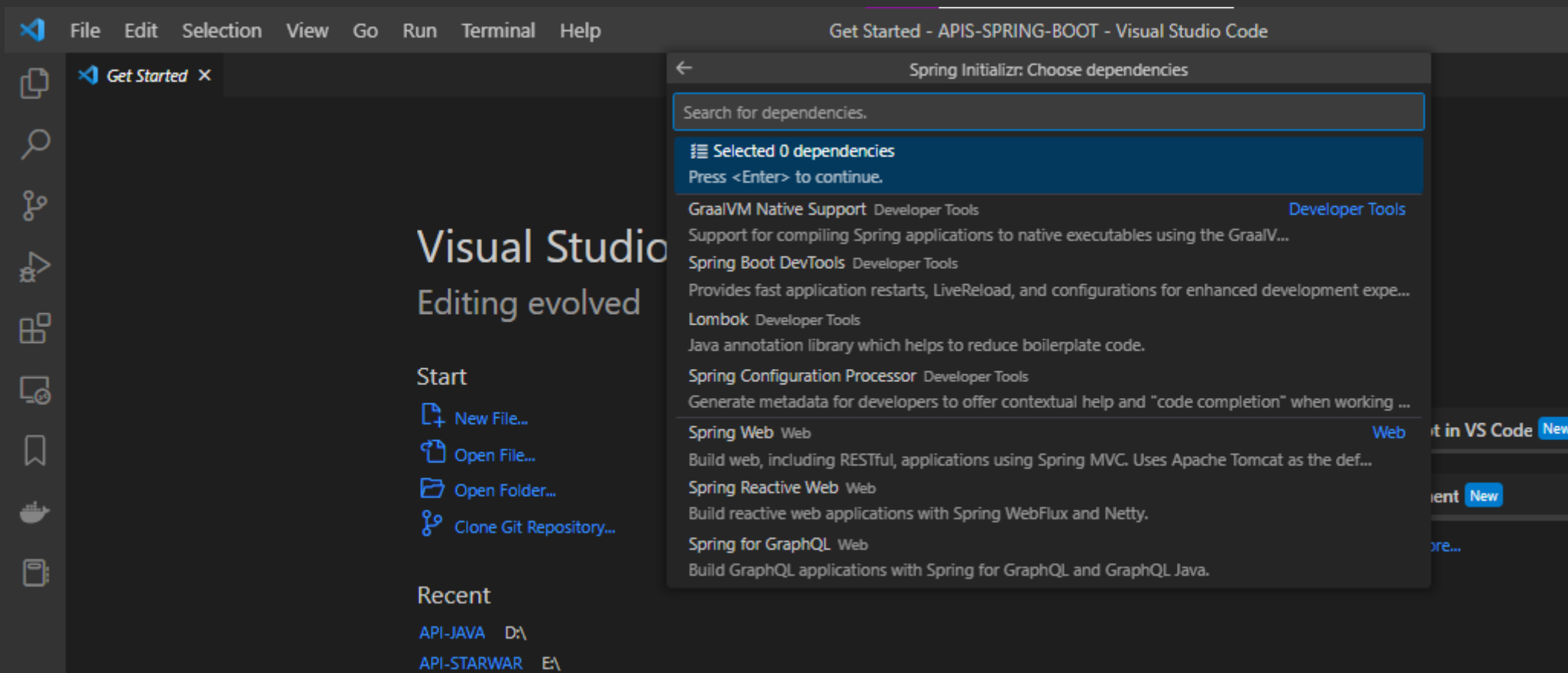




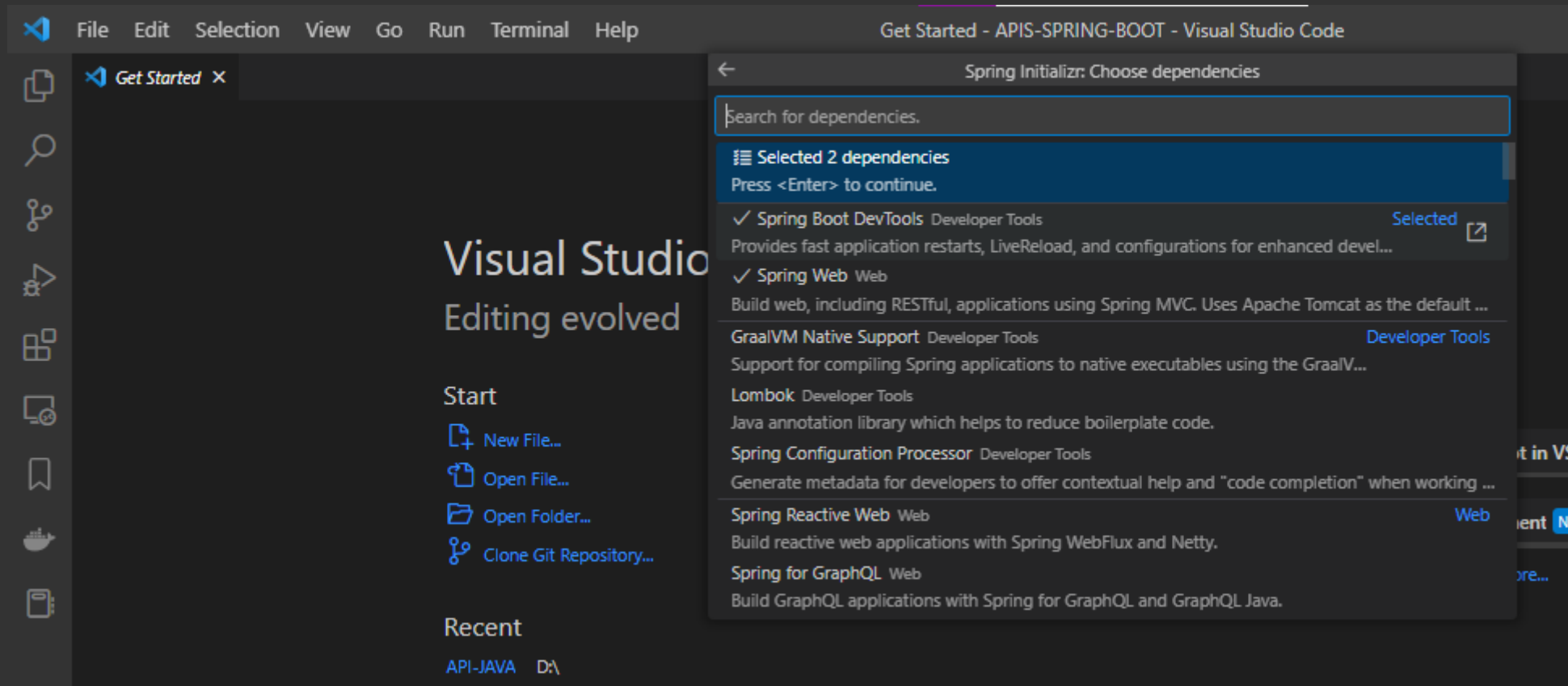
Defina o empacotamento pra jar isso pode ser mudado futuramente



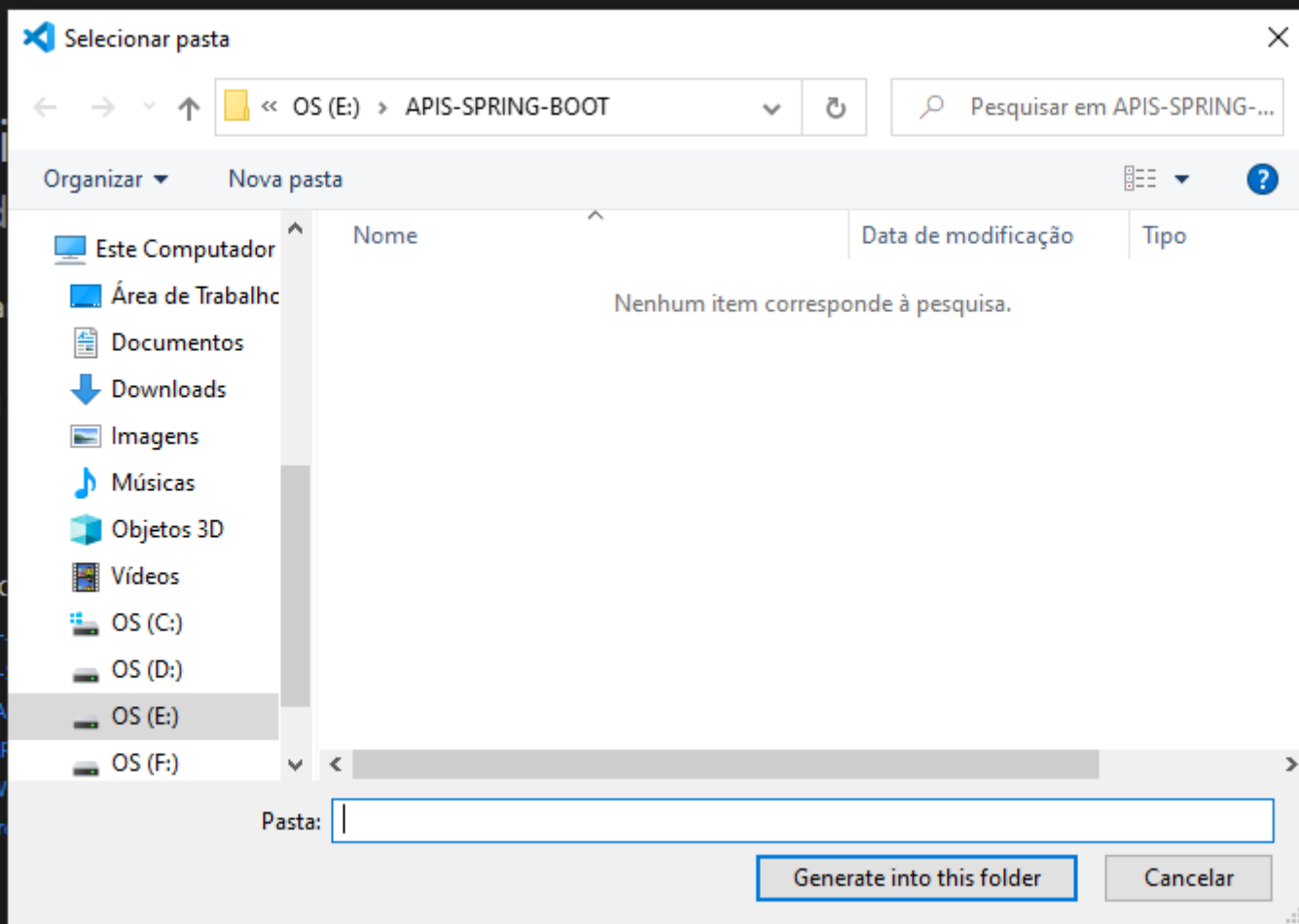
Escolha a versão compatível com a sua versão de java e do jdk a minha como disse é a 17 mais nesse ano 2023 já existe a 19



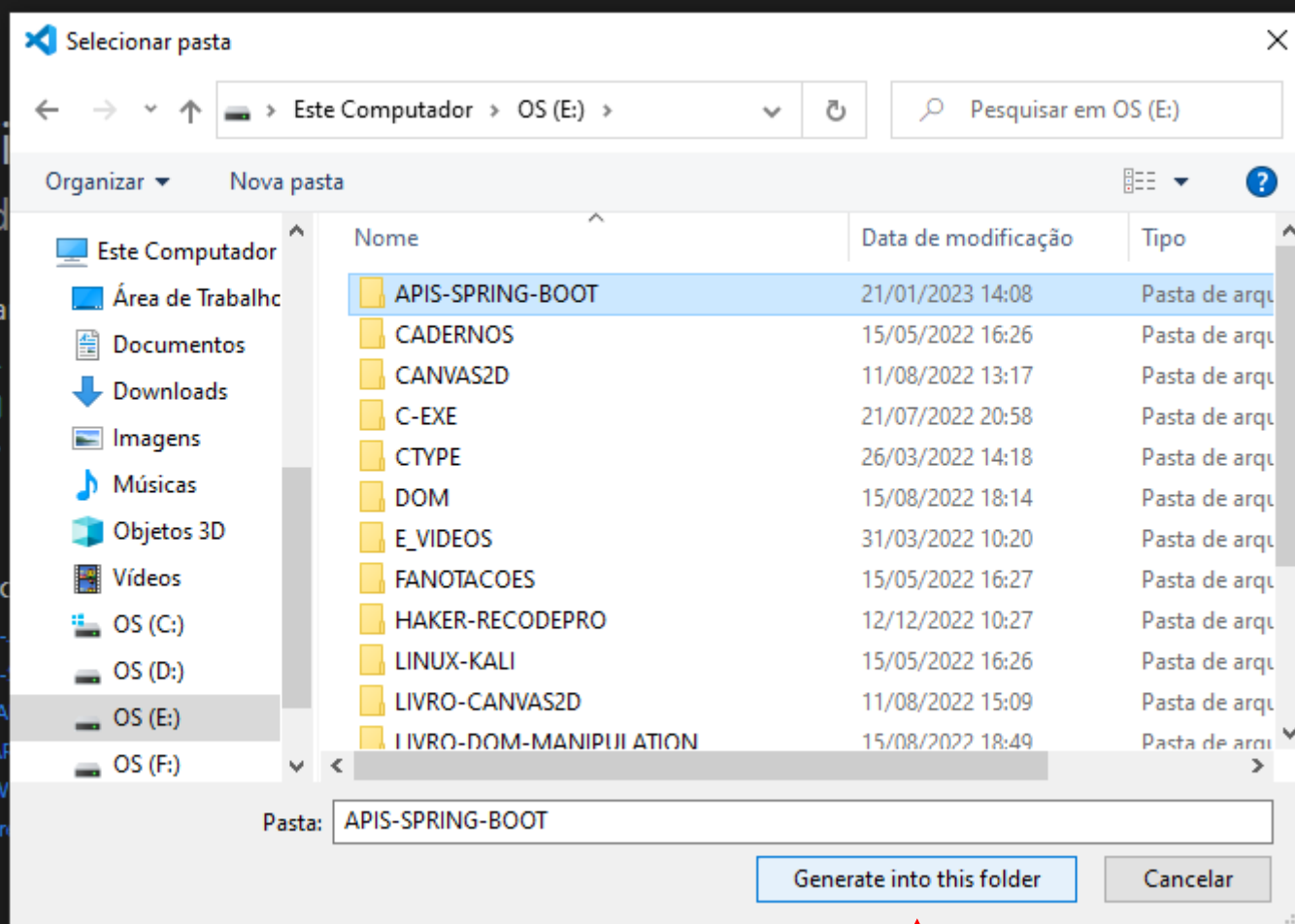
Adicione agora as dependencias do projeto
O que são dependencias? São funções que o spring usa

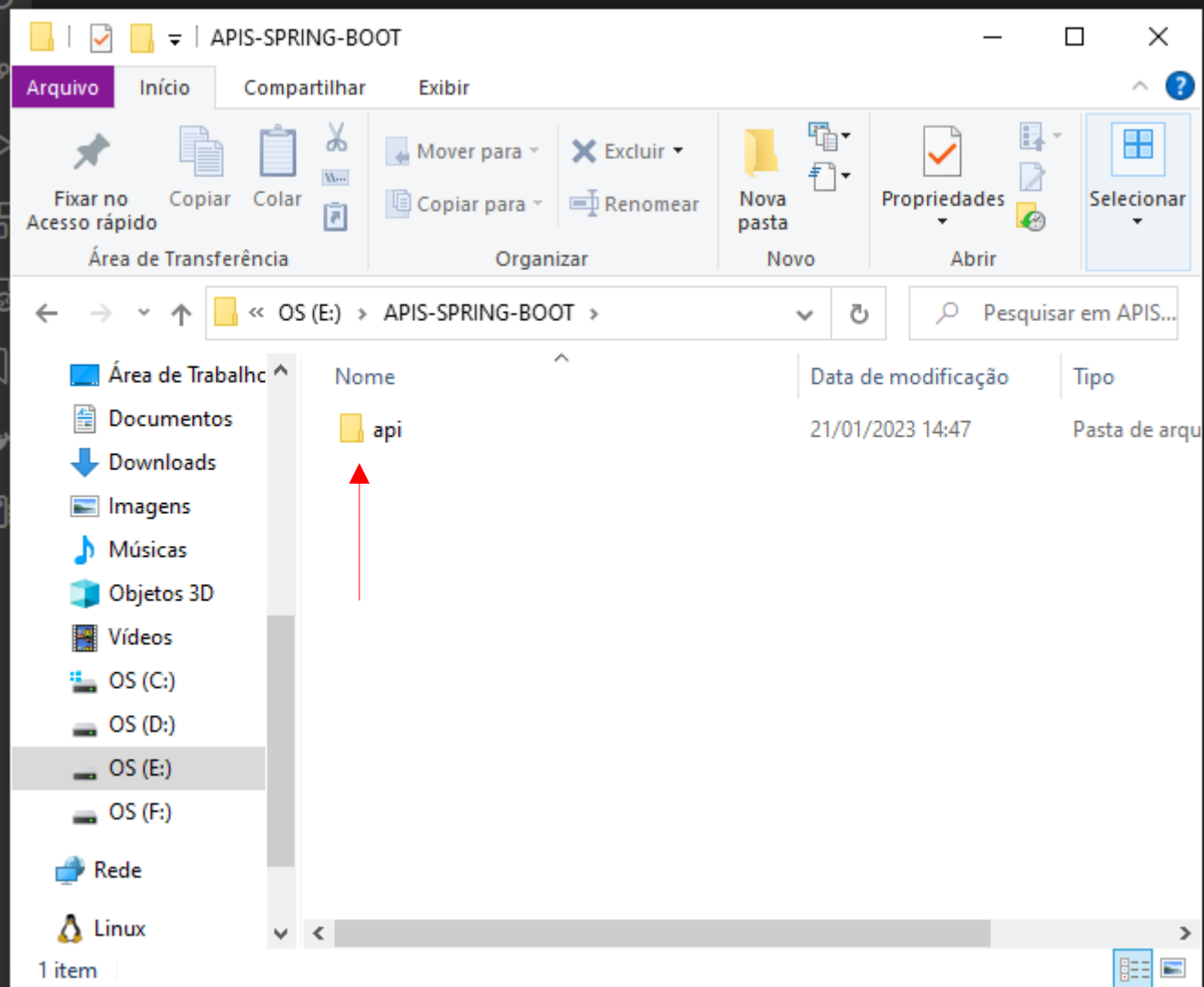


Click para seleccionar spring boot dev tools e spring web
Por fim de enter para seleccionar

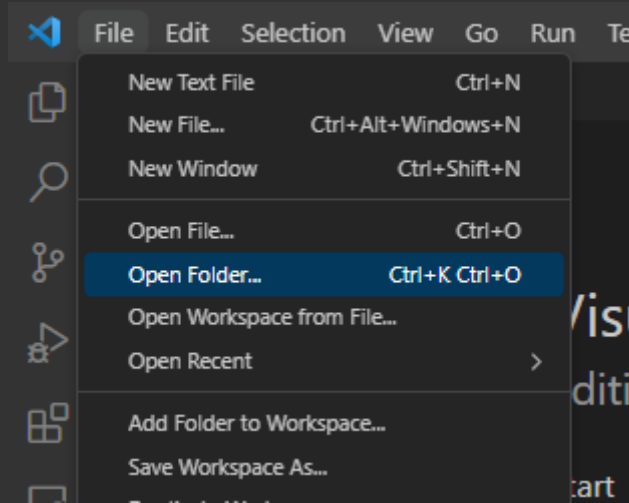


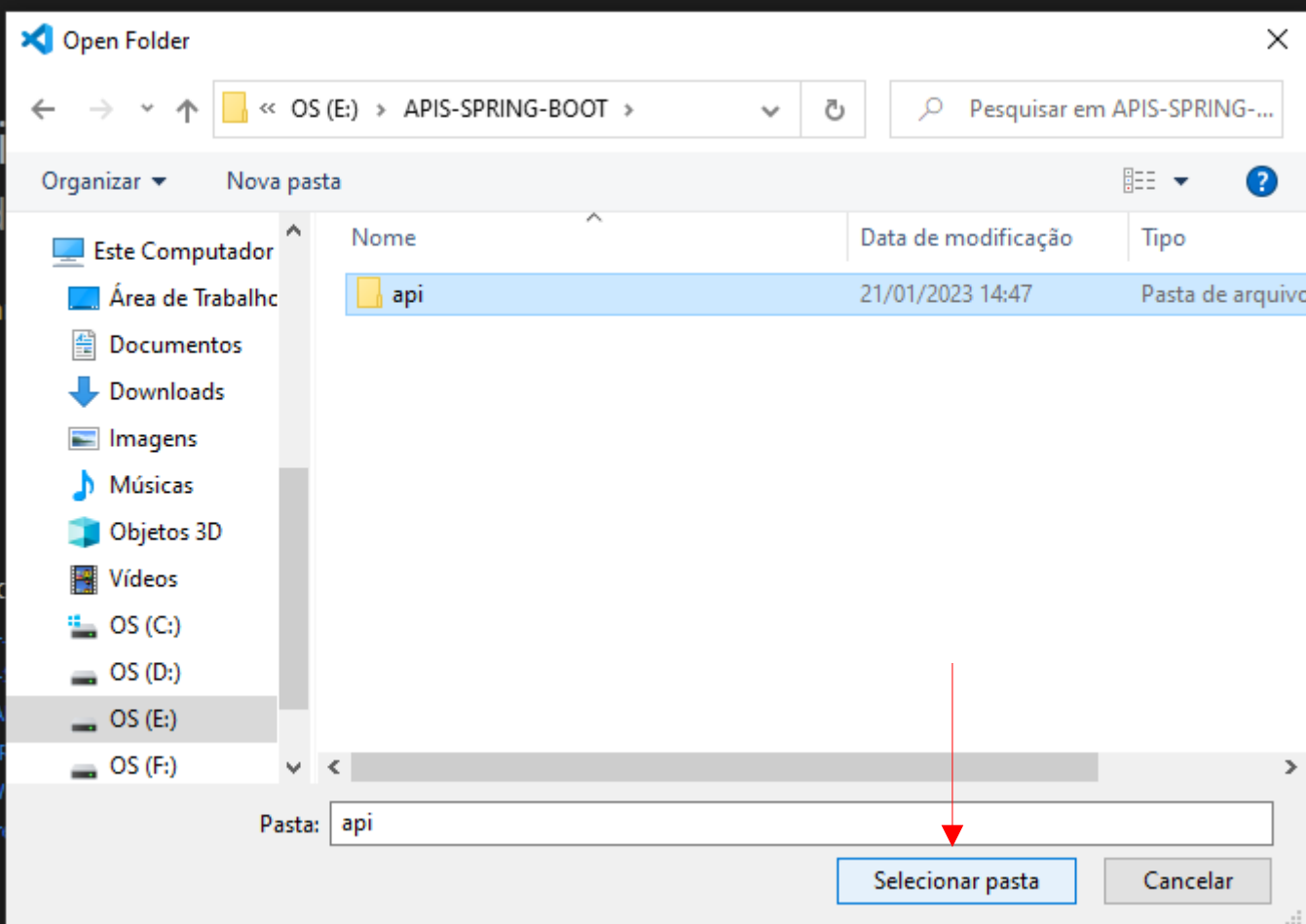
Ele abre para você escolher onde vai salvar o projeto
Você pode escolher qualquer pasta para salvar seu projeto

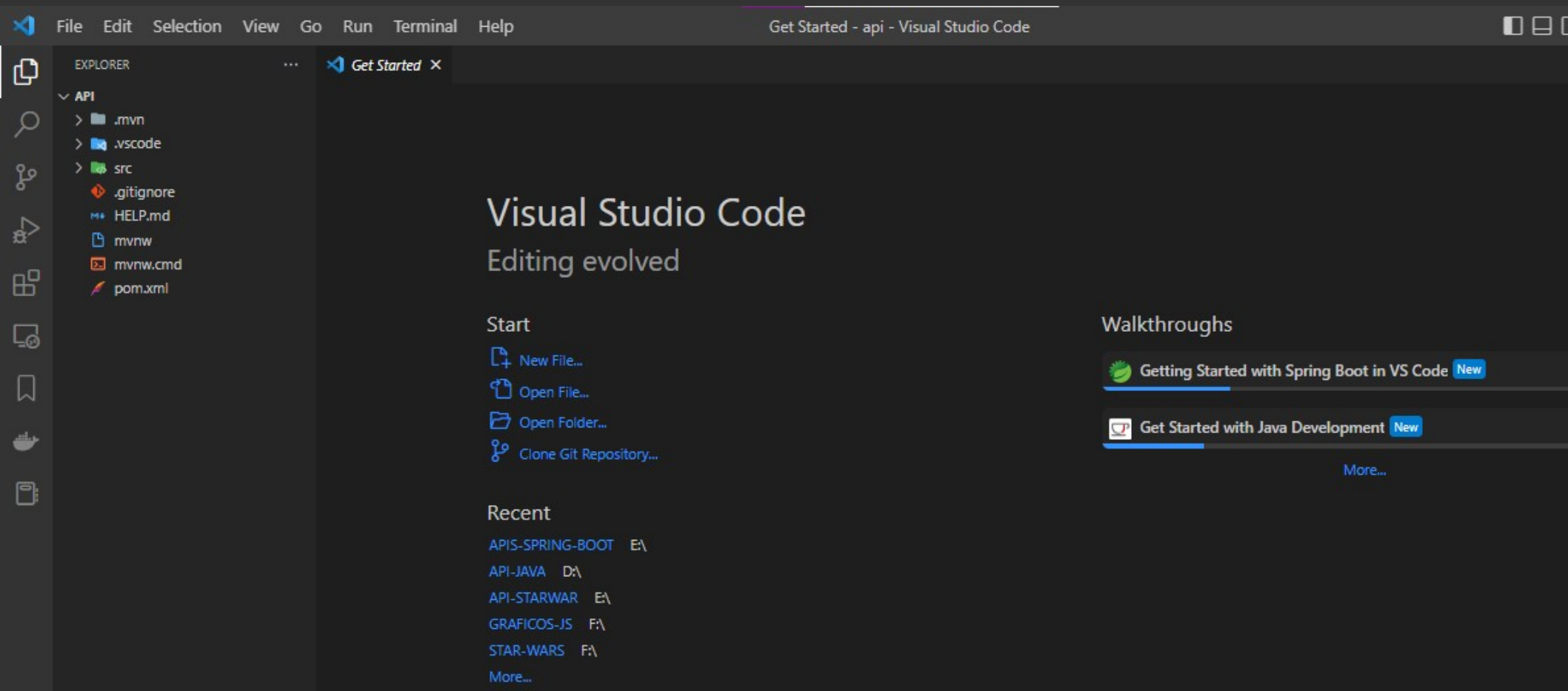




Abrindo a pasta que criamos







Espera todos os arquivos serem baixados



EXPLORER

...



API

- > .mvn
- > .vscode
- > src
- > target
- > .gitignore
- HELP.md
- mvnw
- mvnw.cmd
- pom.xml

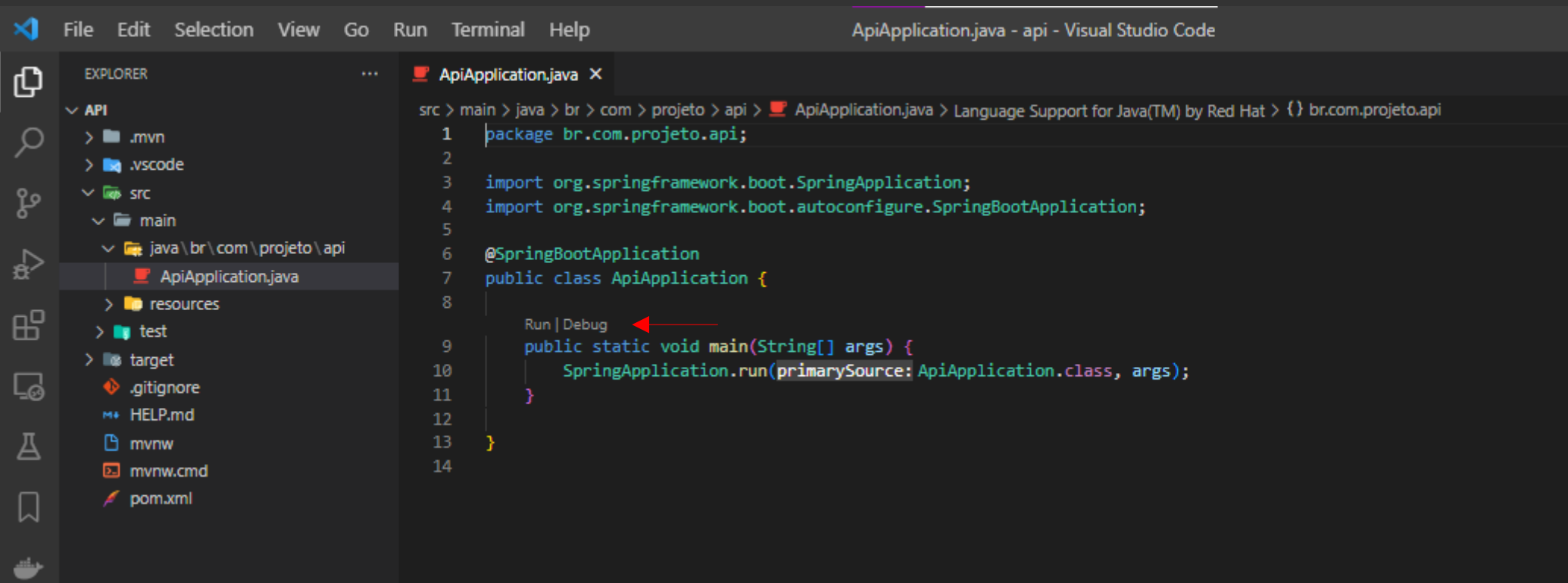
Show All Commands **Ctrl + Shift + P**Go to File **Ctrl + P**Find in Files **Ctrl + Shift + F**Start Debugging **F5**Toggle Terminal **Ctrl + `**

- > OUTLINE
- > TIMELINE
- > JAVA PROJECTS
- > MAVEN

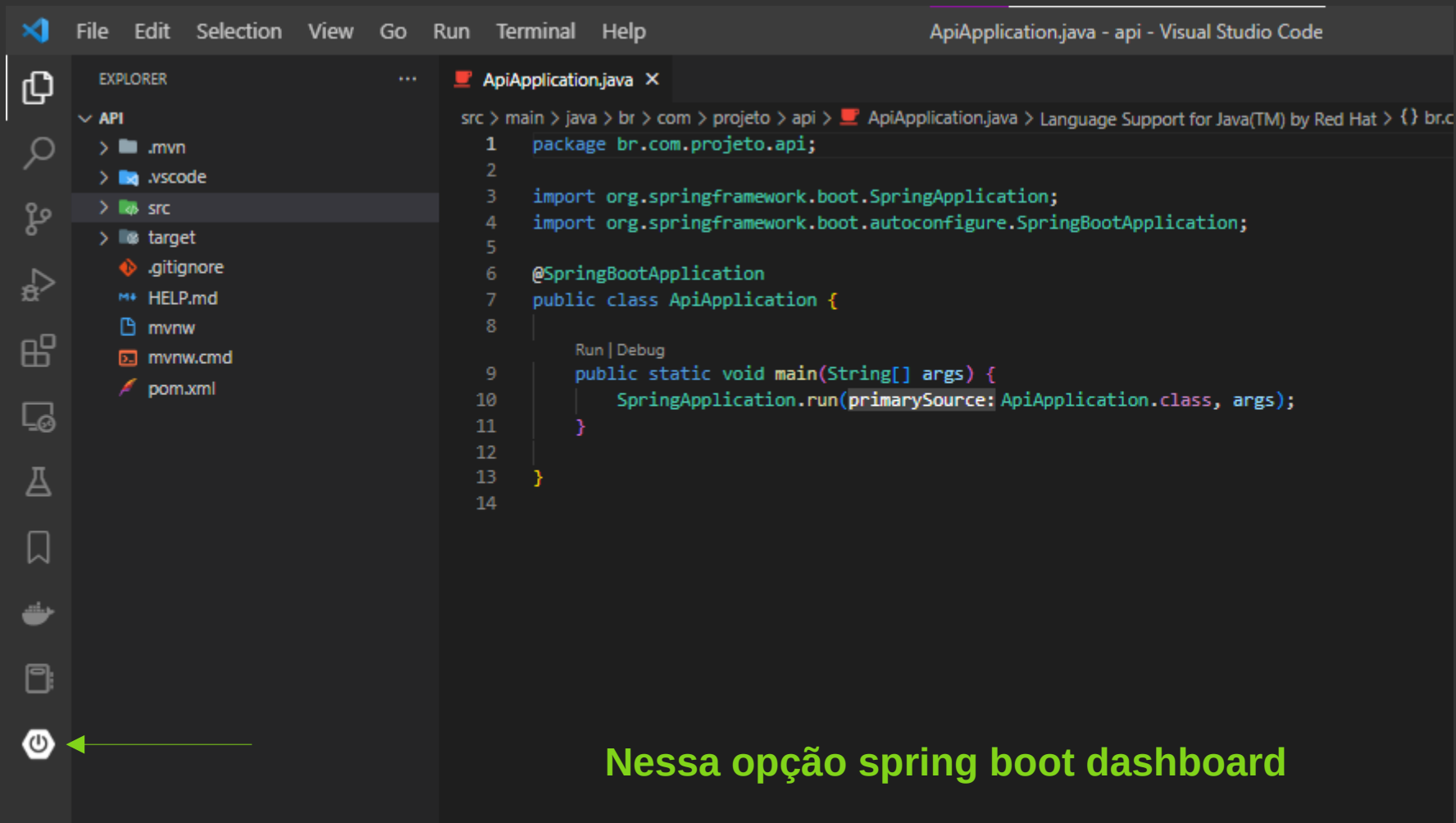


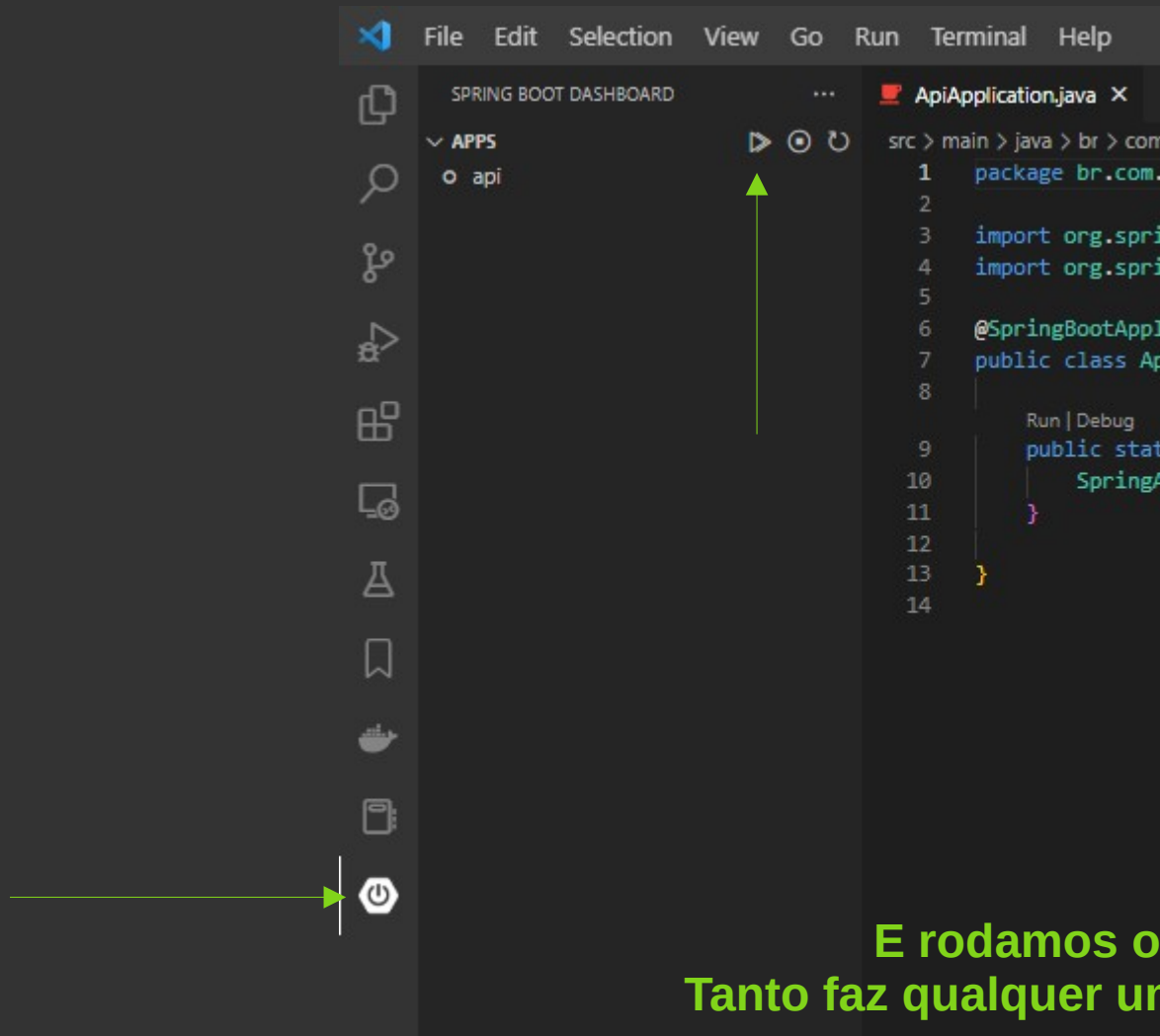
0 0 0

EXECUTANDO PROJETO

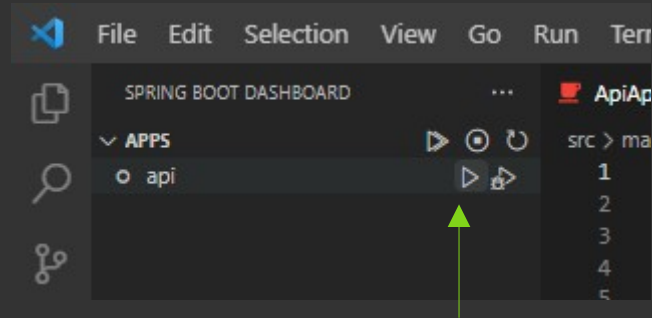


Preste atenção nessas duas opções
Podemos rodar a aplicação com a opção run ou ir la embaixo em...





E rodamos o projeto
Tanto faz qualquer uma das escolhas



EXECUTE O PROJETO PARA FAZER UM TESTE

- o api

```

1  <!-- POM for project: org.springframework.boot:spring-boot-starter-parent:jar:3.0.2 -->
2  <!-- Schema: http://maven.apache.org/POM/4.0.0 -->
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/> <!-- lookup parent from repository -->
10 </parent>

```

PROBLEMS OUTPUT TERMINAL

▼ TERMINAL

 Run: ApiApplication + v [icon] [icon]

DEBUG CONSOLE

```

/\ / _--_--_--( )--_--_-- \\\ \
(( )\__| ' | ' | ' v _ \\\ \
w _ __| | | | | | | | ( | ) ))
' |_____| | | | | | | \_ / / /
=====|_|=====|_|_/=/ / / /
:: 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 profil
e: "default"
```

```
2023-01-21T15:10:28.920-03:00 INFO 968 --- [ restartedMain] o.s.b.w.embedded.t
```

```
omcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
2023-01-21T15:10:28.024-03:00 INFO 868 --- [ restartedMain ] o.apache.catalina
```

```
2023-01-21T15:10:28.924-05:00 INFO 908 --- [TestateDomain] 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]
2023-01-21T15:10:28.001-03:00 INFO 968 --- [ restartedMain] o.a.c.c.C [Tomcat]
```

```
2023-01-21T15:10:28.991-05:00 INFO 908 --- [TestContainer] 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
```

```

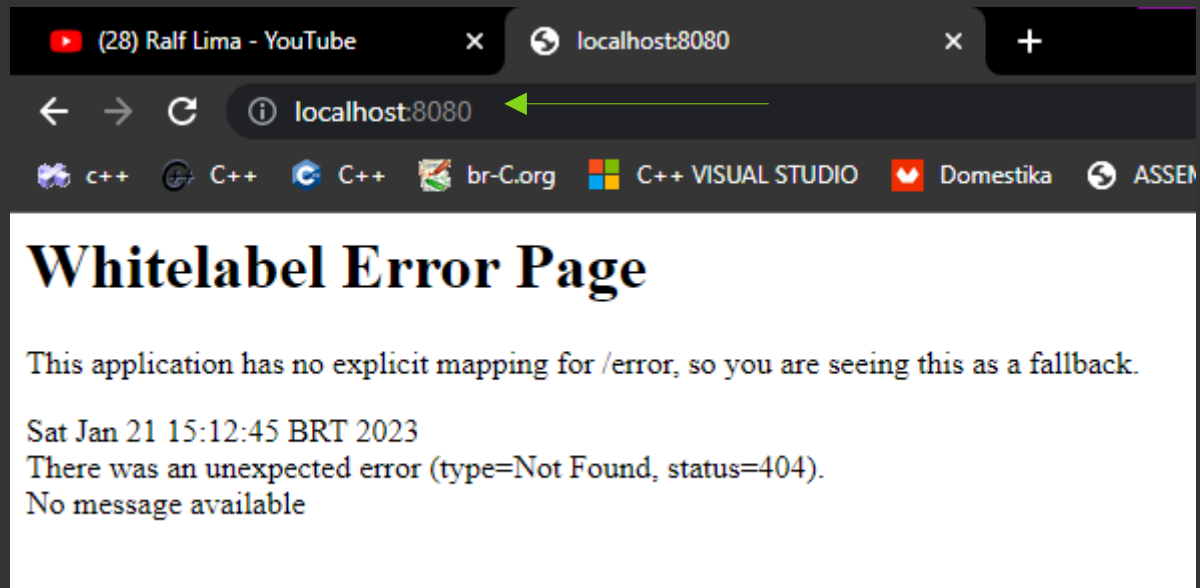
rverApplicationContext : Root WebApplicationContext: initialization completed in 522 ms
2023-01-21T15:10:29.197-03:00 INFO 968 --- [ restartedMain] o.s.b.a.OptionalLiveReloadServer : liveReload server is running on port 35729

```

```
2023-01-21T15:10:23.157Z INF 0 100 [ Pester running ] 0.3.0.0.optional:liveness:server : liveness:server is running on port 55723
```

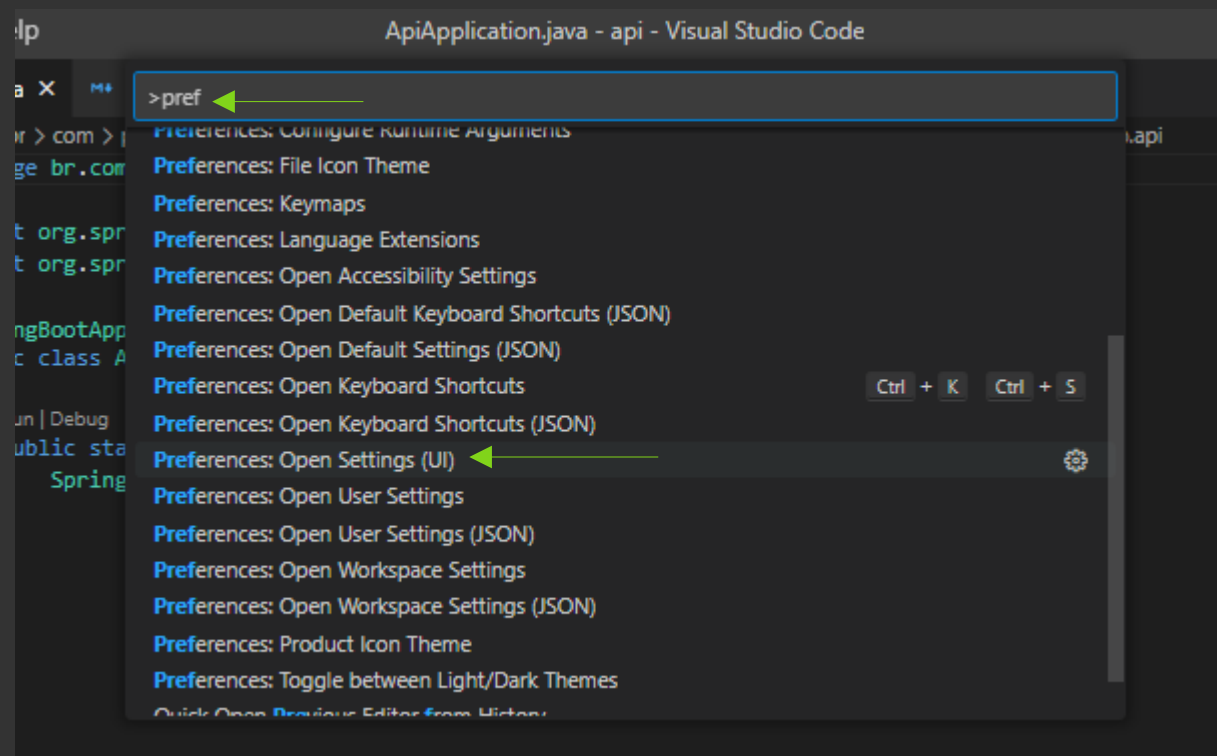
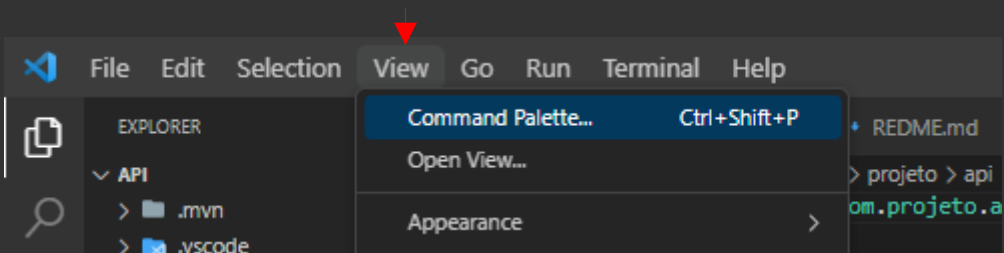
```
2023-01-21T15:10:29.269-03:00 INFO 968 --- [ restartedMain] br.com.projeto.api.ApiApplication : Started ApiApplication in 0.94 seconds (pr
```

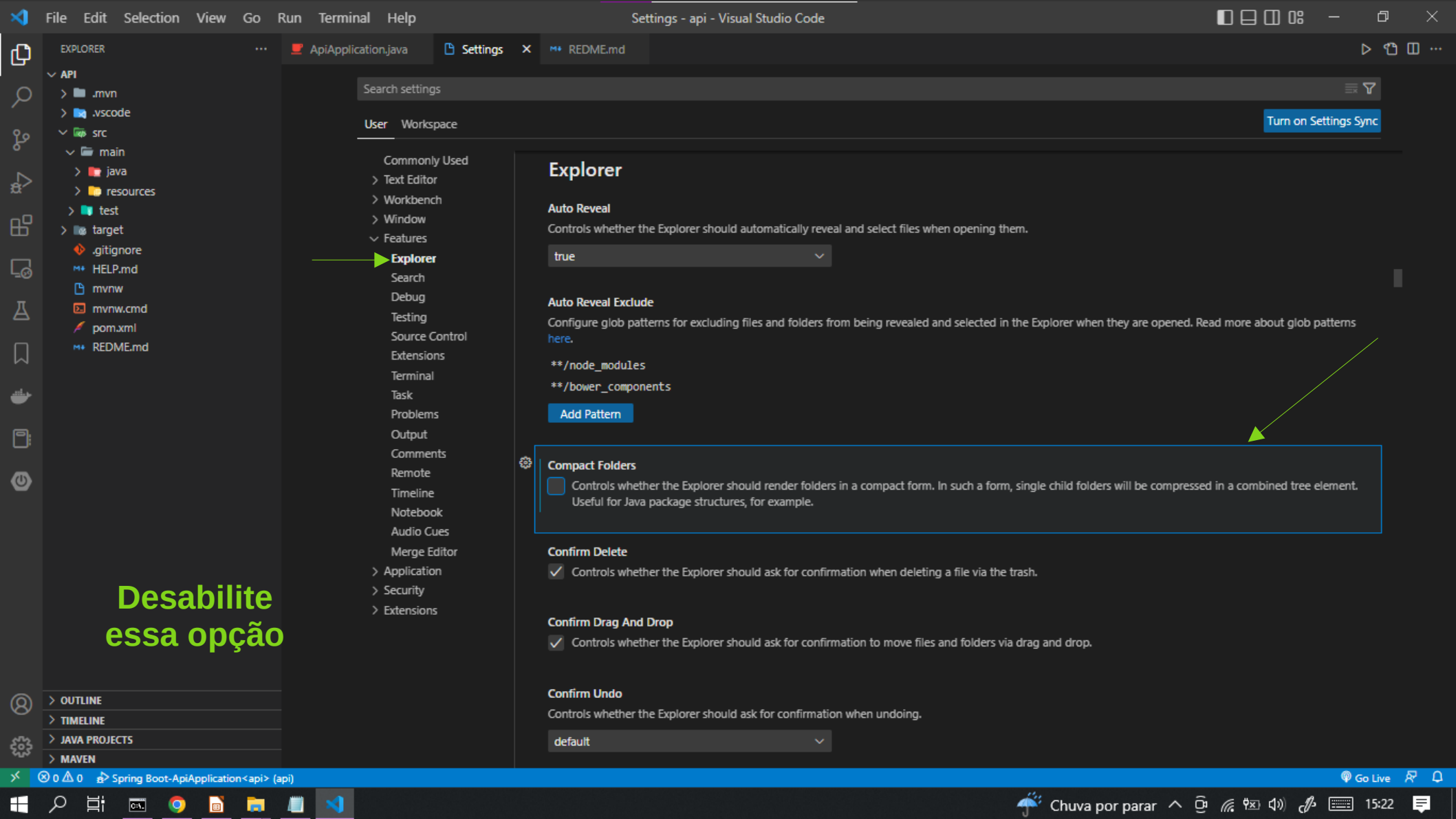
process running for 37.181)



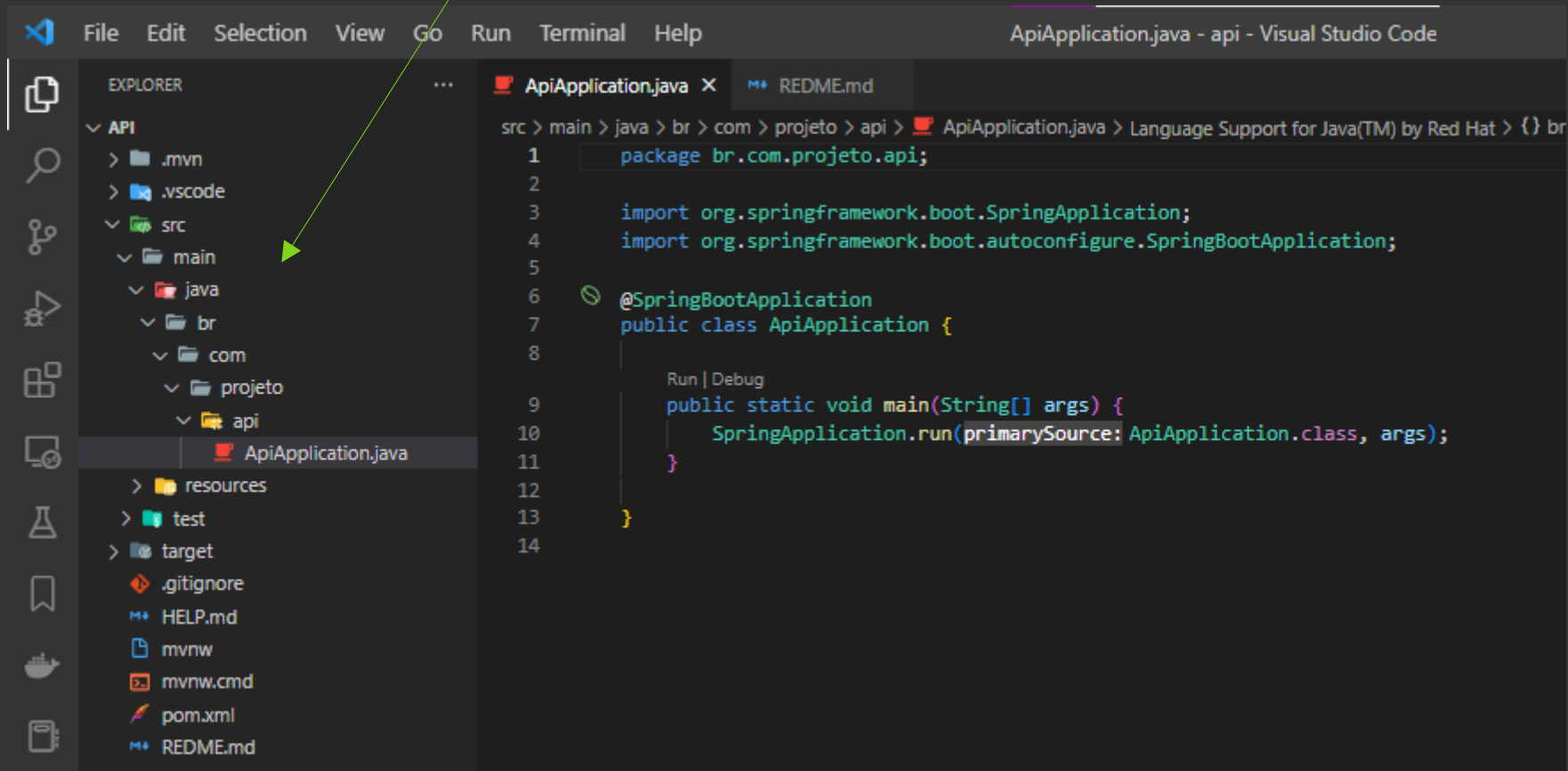
ERRO 404 SIGNIFICA QUE ESTA RODANDO

IMPLEMENTANDO O CONTROLLER PARA CORRIGIR O ERRO

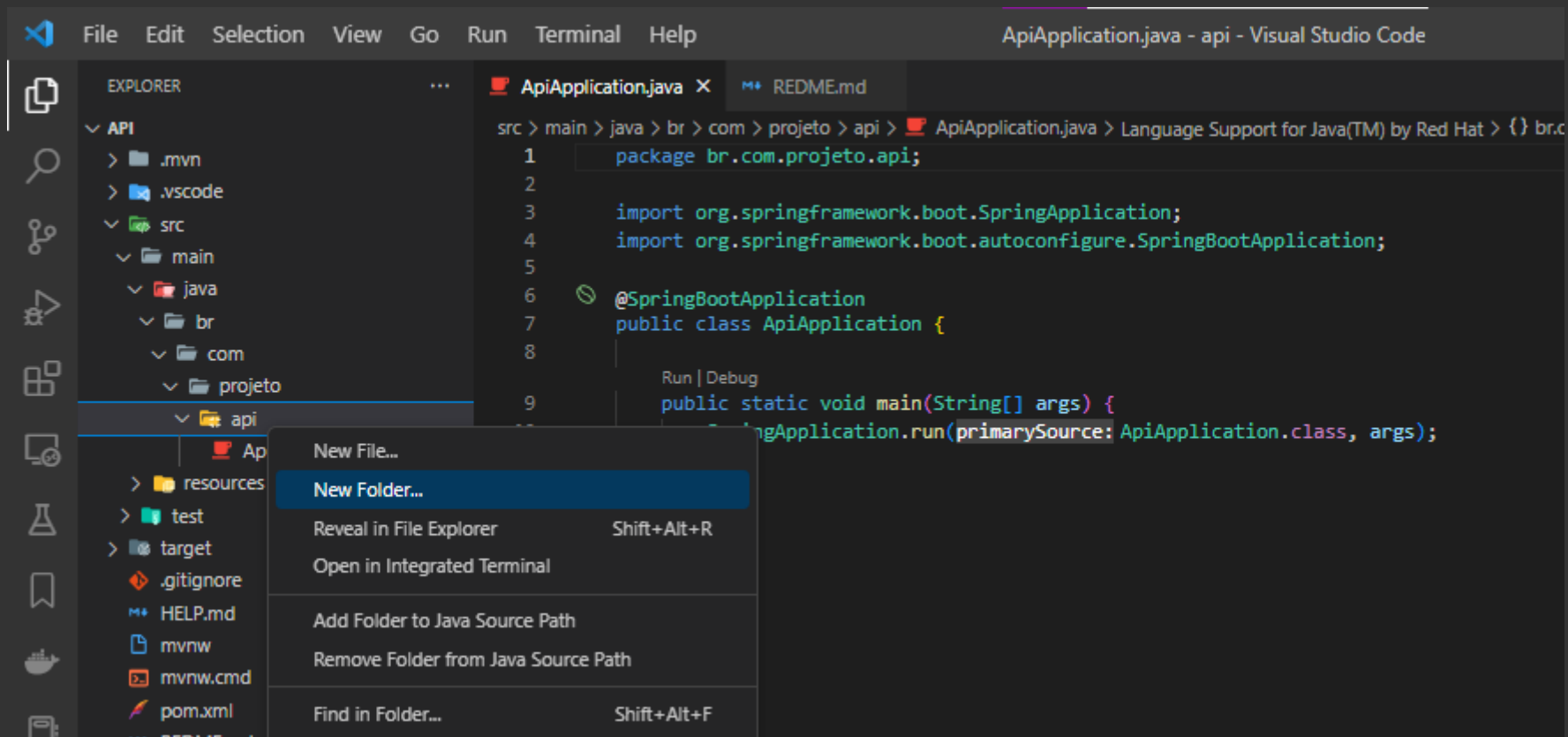




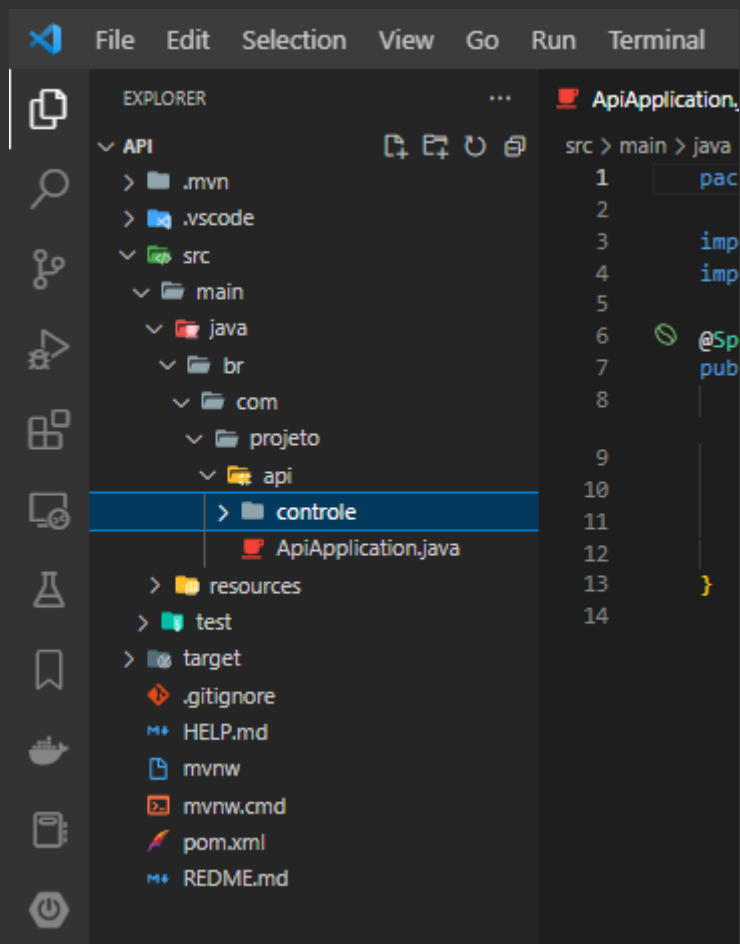
Desabilite
essa opção

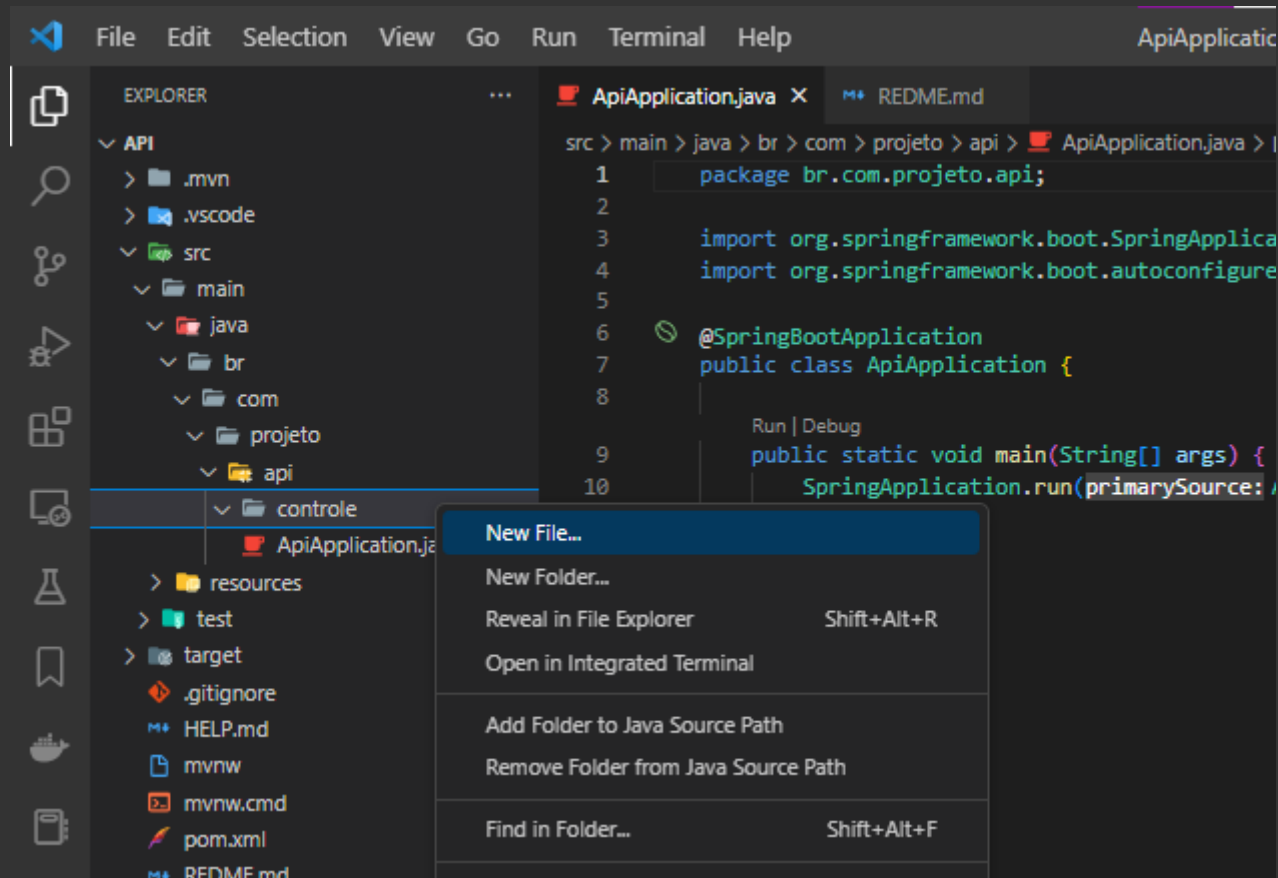


Agora as pastas aparecem em cascata



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





Criando uma class controle dentro da pasta controle

File Edit Selection View Go Run Terminal Help

• Controle.java - api - Visual Studio Code

EXPLORER

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

ApiApplication.java

Controle.java

README.md

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 }

6

class Controle

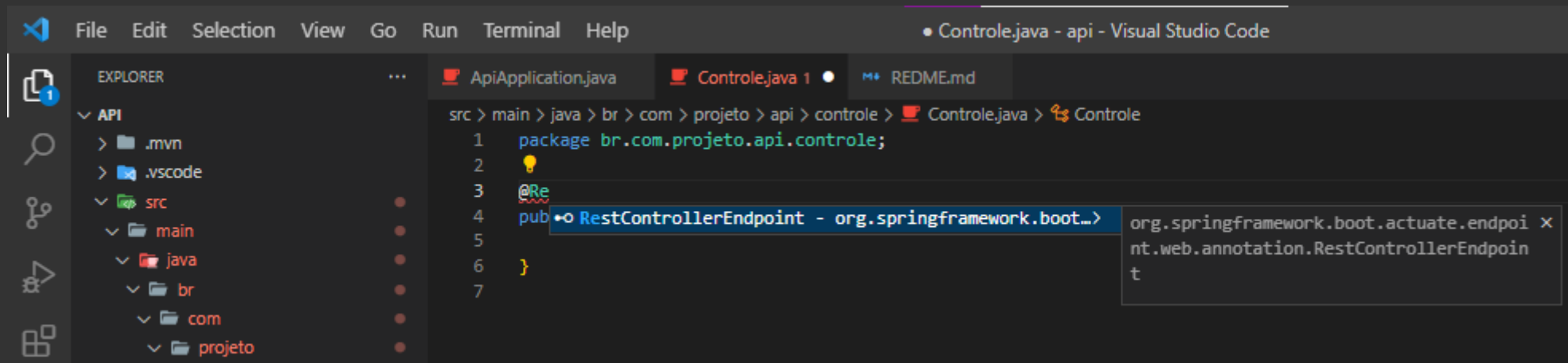
interface Controle

enum Controle

record Controle()

abstract class Controle

@interface Controle



Adicione a anotação `@RestController` e seu import



EXPLORER

API

> .mvn

> .vscode

src

main

java

br

com

projeto

api

controle

Controle.java

1

ApiApplication.java

> resources

> test

> target

.gitignore

HELP.md

mvnw

mvnw.cmd

pom.xml

README.md

ApiApplication.java

Controle.java 1

README.md

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

1 package br.com.projeto.api.controle;

2

3 @RestController

4 public

5

6 }

7

- RestController - org.springframework.web.bind.annotation.RestController
- RestControllerAdvice - org.springframework.web.bind.annotation.RestControllerAdvice
- RestControllerEndpoint - org.springframework.boot.autoconfigure.web.servlet.mvc.annotation.annotation.AnnotationMethodProcessor
- ResponseStatus - org.springframework.web.bind.annotation.ResponseStatus
- RegisterReflectionForBinding - org.springframework.web.bind.annotation.RegisterReflectionForBinding
- RequestScope - org.springframework.web.context.annotation.RequestScope
- RequestMapping - org.springframework.web.bind.annotation.RequestMapping
- Repository - org.springframework.stereotype.Repository
- ConditionalOnRepositoryType - org.springframework.boot.autoconfigure.condition.ConditionalOnRepositoryType
- ImportRuntimeHints - org.springframework.context.annotation.ImportRuntimeHints

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:



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

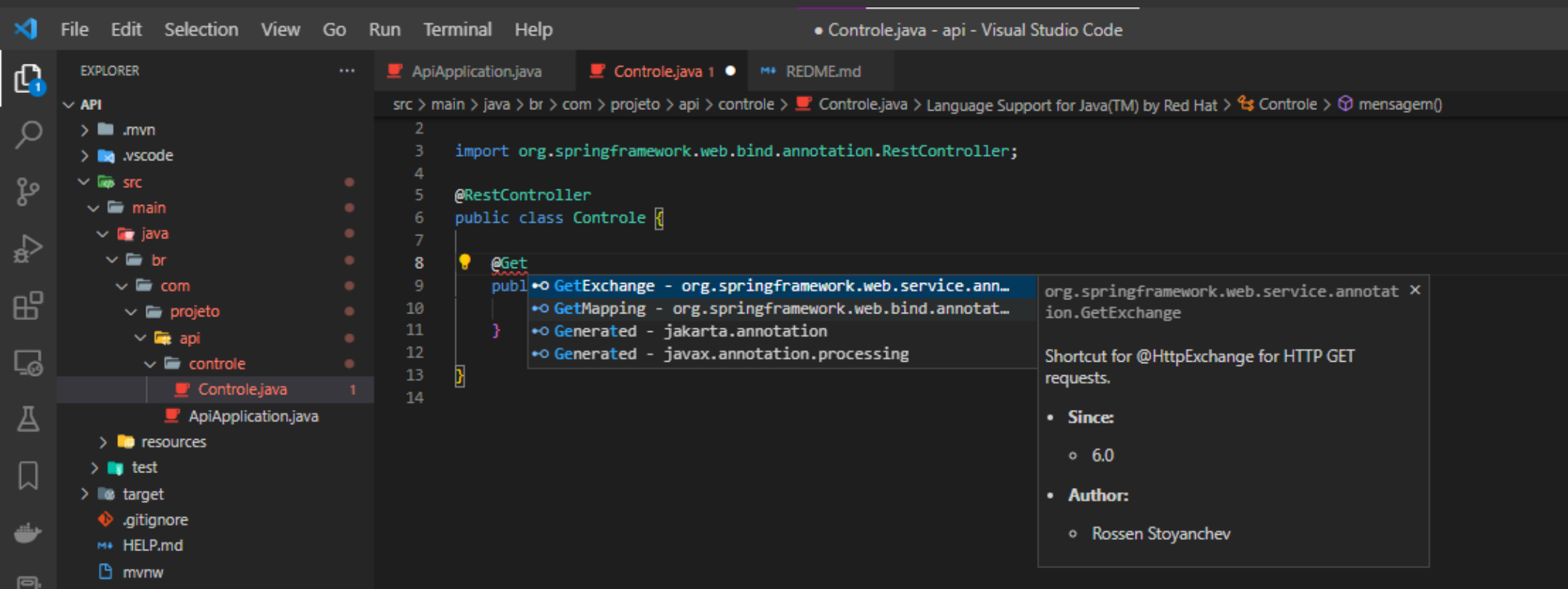
mvnw.cmd

pom.xml

REDME.md

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

```
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
```



Adicione a anotation @GetMapping e seu import



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

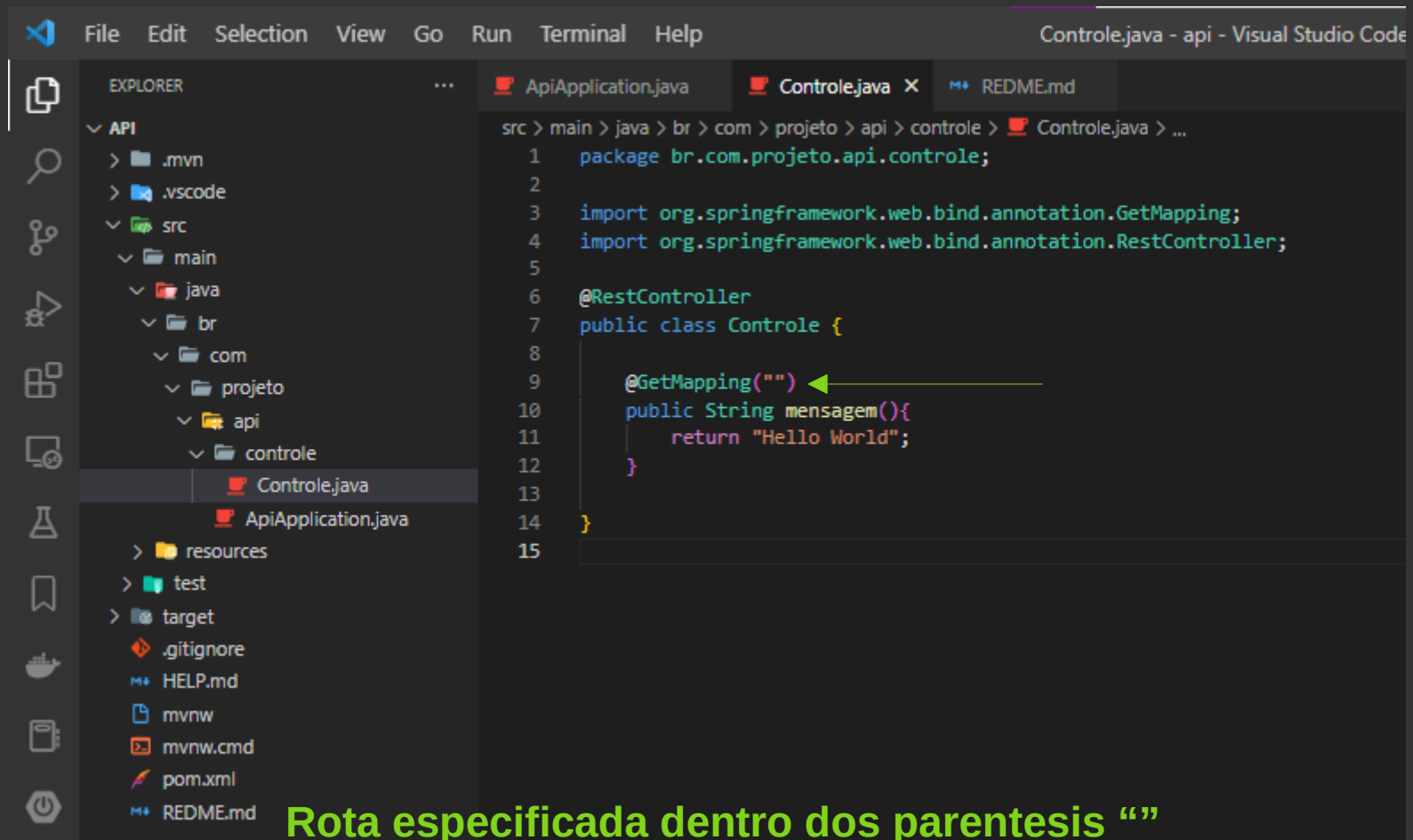
mvnw.cmd

pom.xml

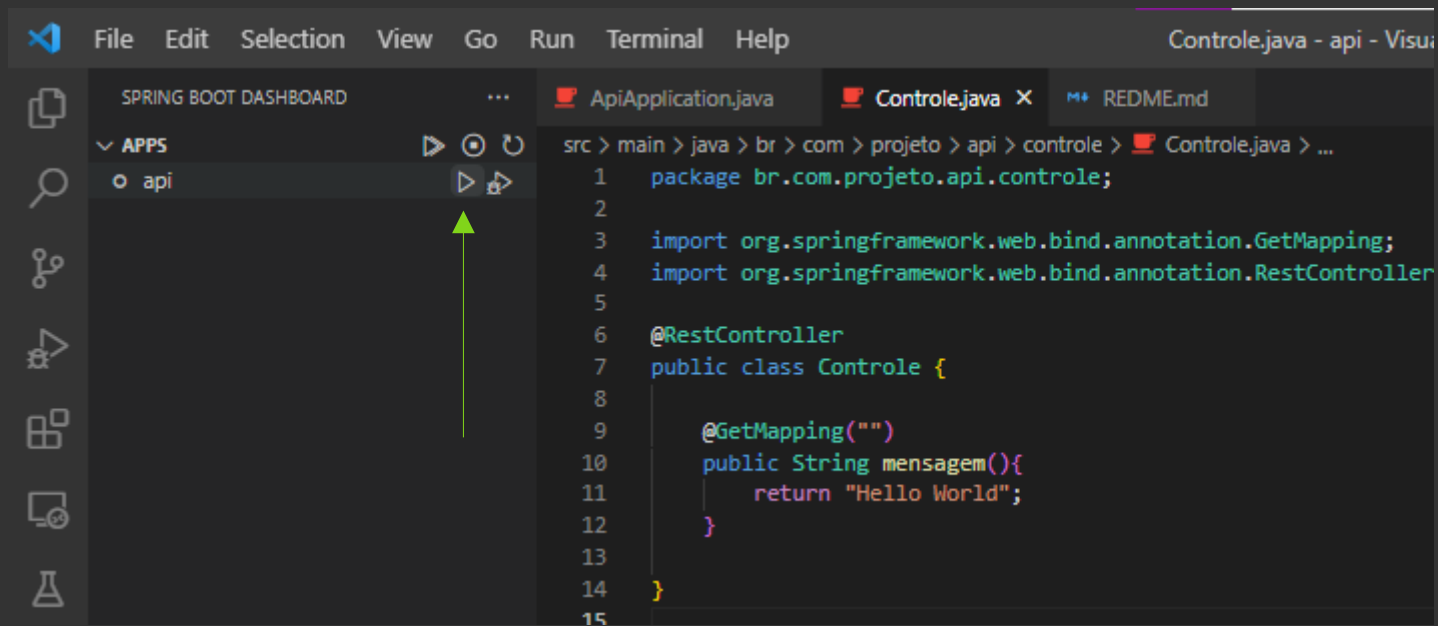
REDME.md

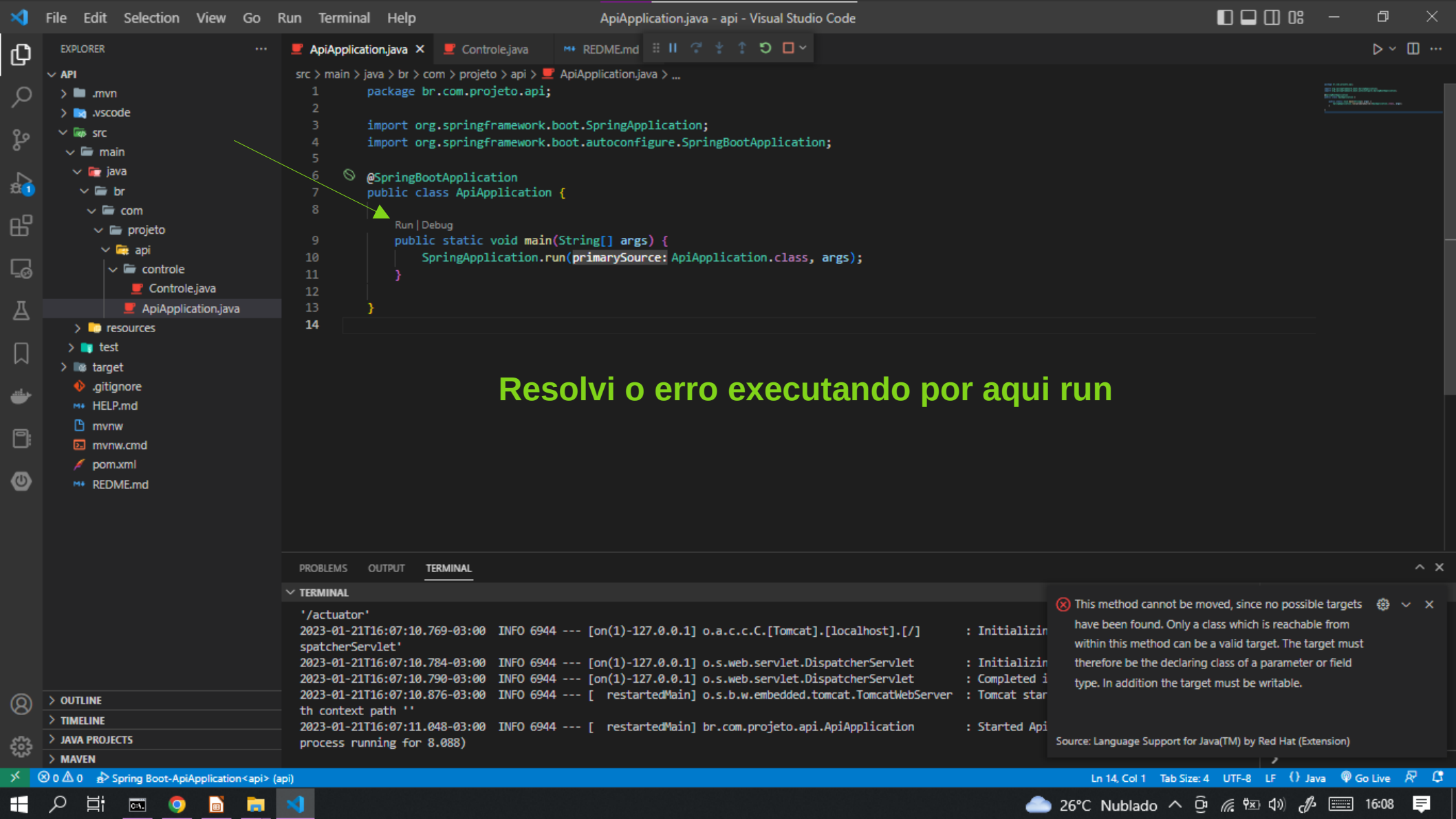
src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Java(TM) by Red Hat > Controle

```
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
```



Rota especificada dentro dos parentesis ""
De run e volte no navegador e atualize a pagina





Resolvi o erro executando por aqui run

✖ 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)

File Edit Selection View Go Run Terminal Help

Controle.java - api - Visual Studio Code

EXPLORER

API

> .mvn

> .vscode

> src

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HELP.md

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mvnw.cmd

pom.xml

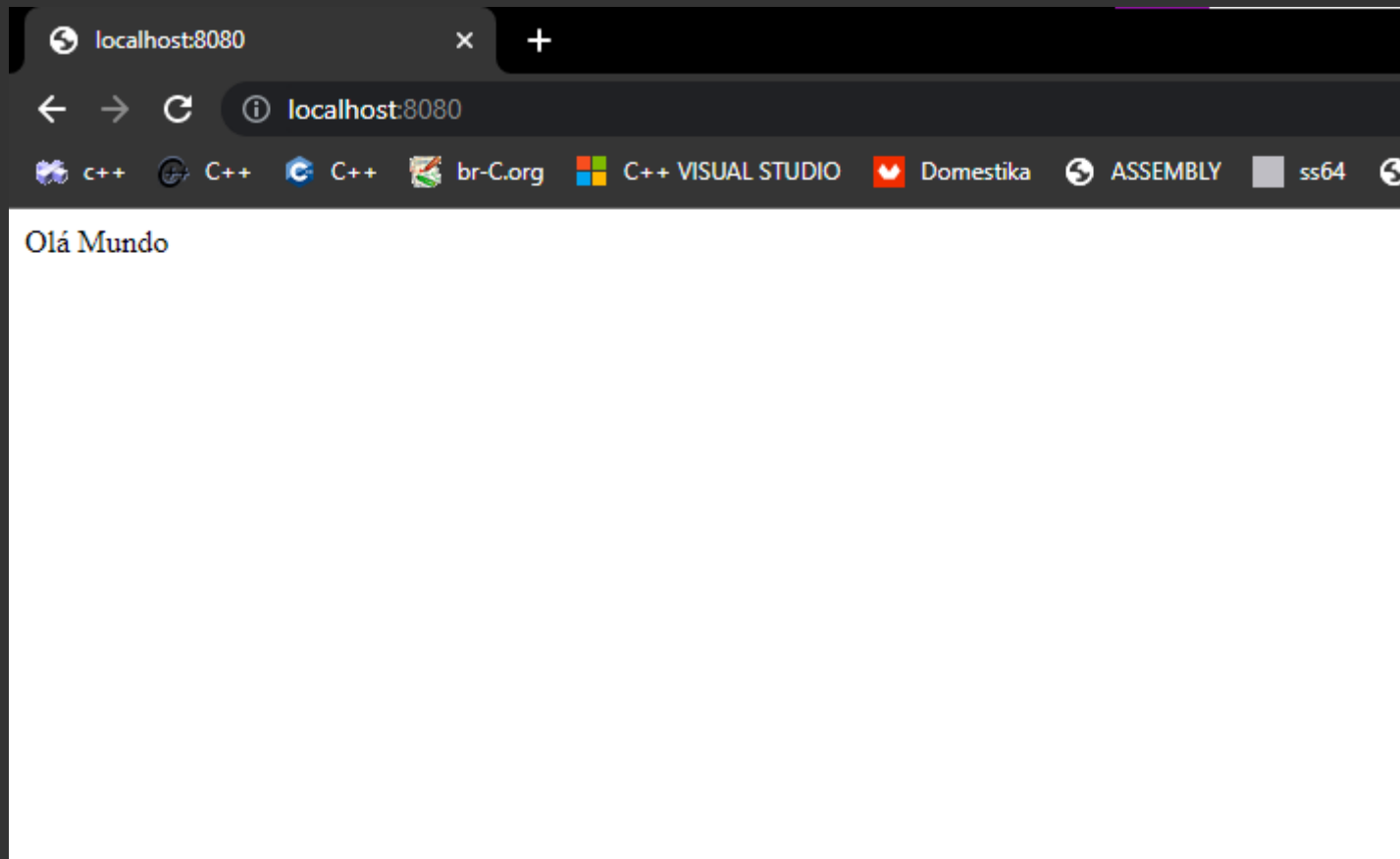
README.md

ApiApplication.java

Controle.java X

README.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     http://127.0.0.1:8080/
9     @GetMapping("/")
10    public String mensagem(){
11        return "Hello World";
12    }
13
14 }
15
```

Resolvi adicionando o / na url

