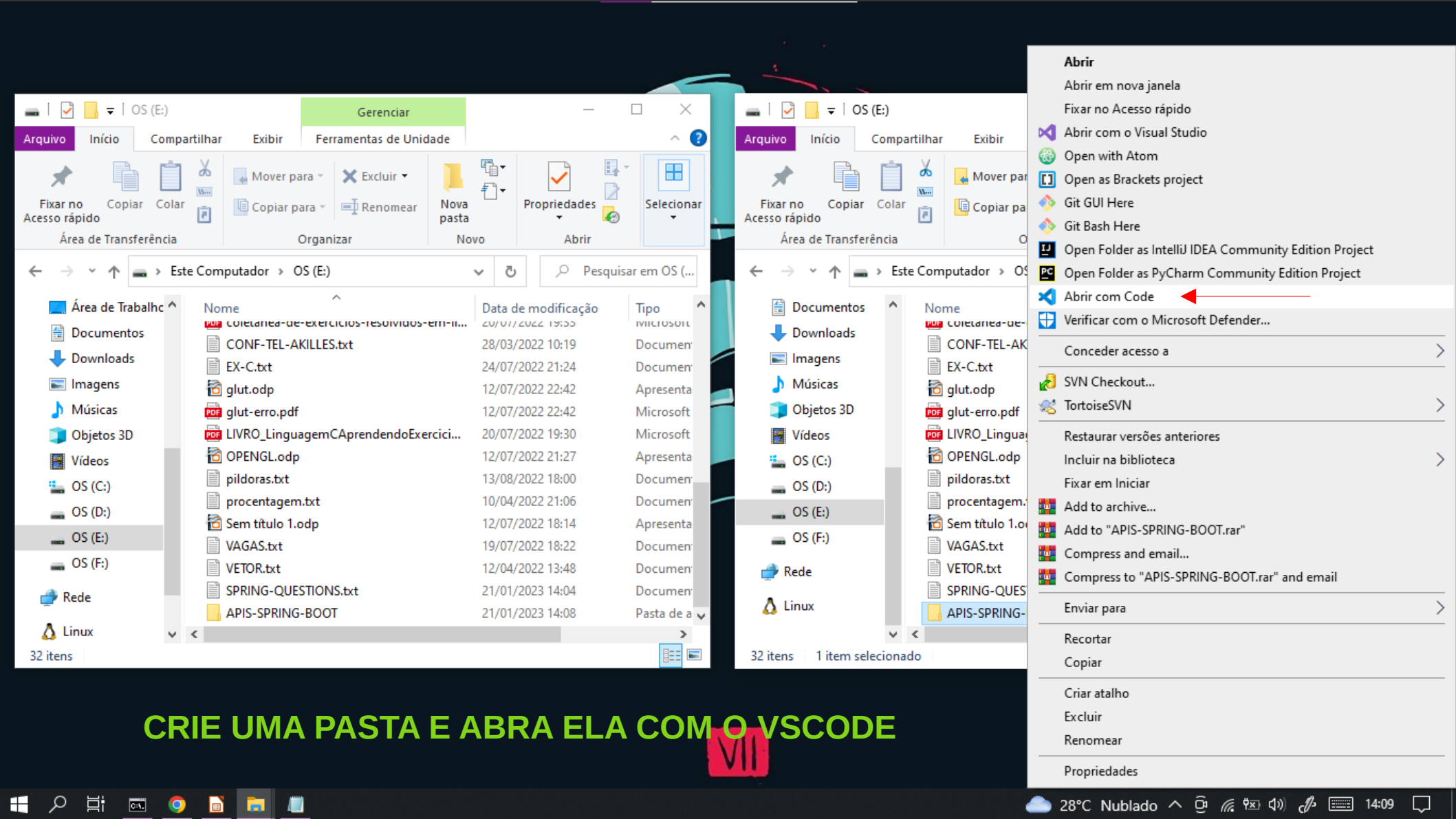
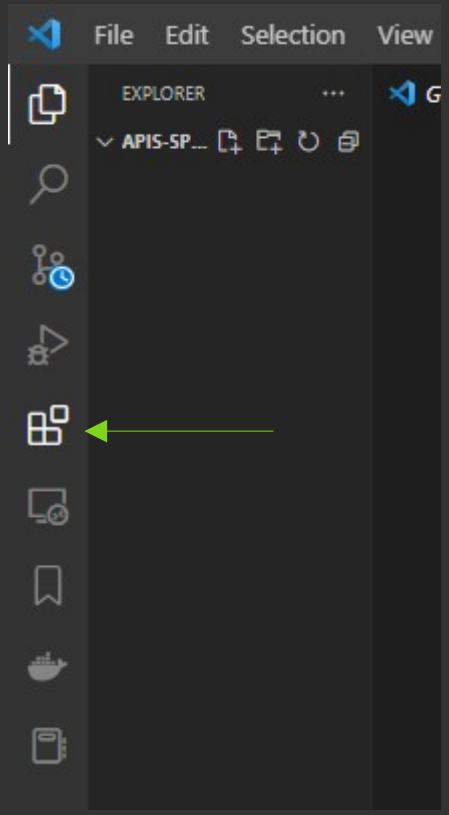
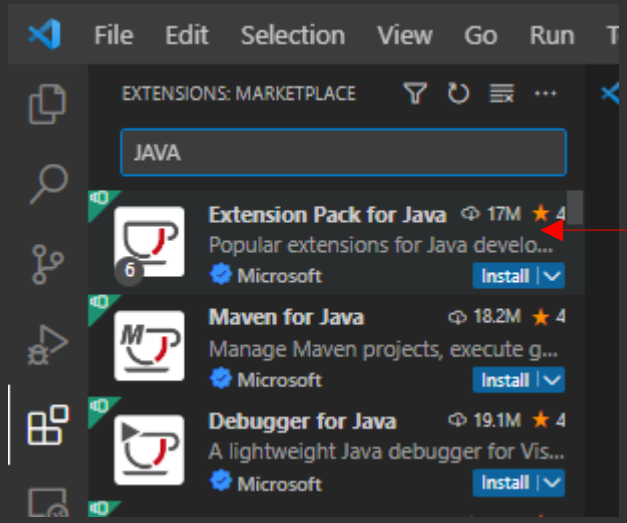
JAVA SPRING BOOT
2023
NANO

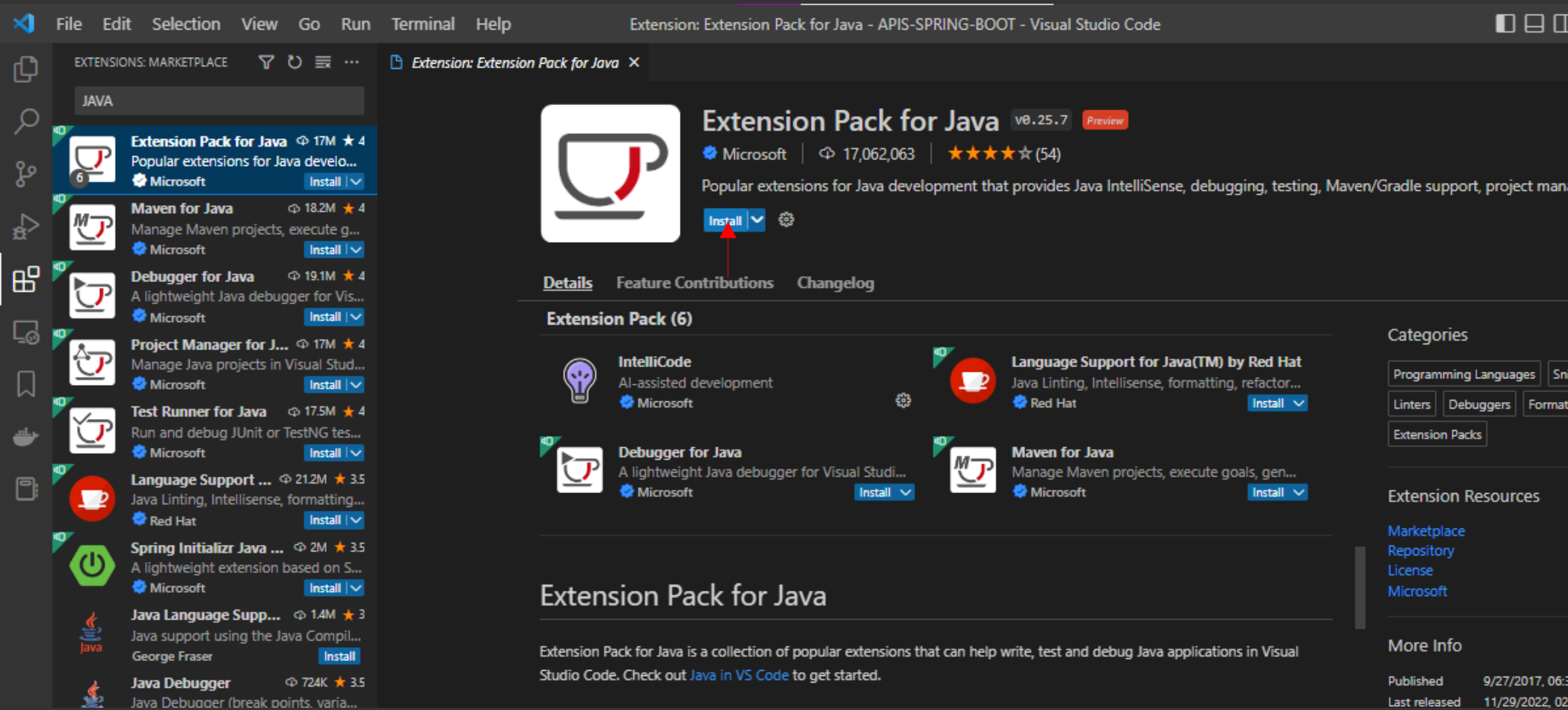
CONFIGURANDO O VISUAL ESTUDIO CODE

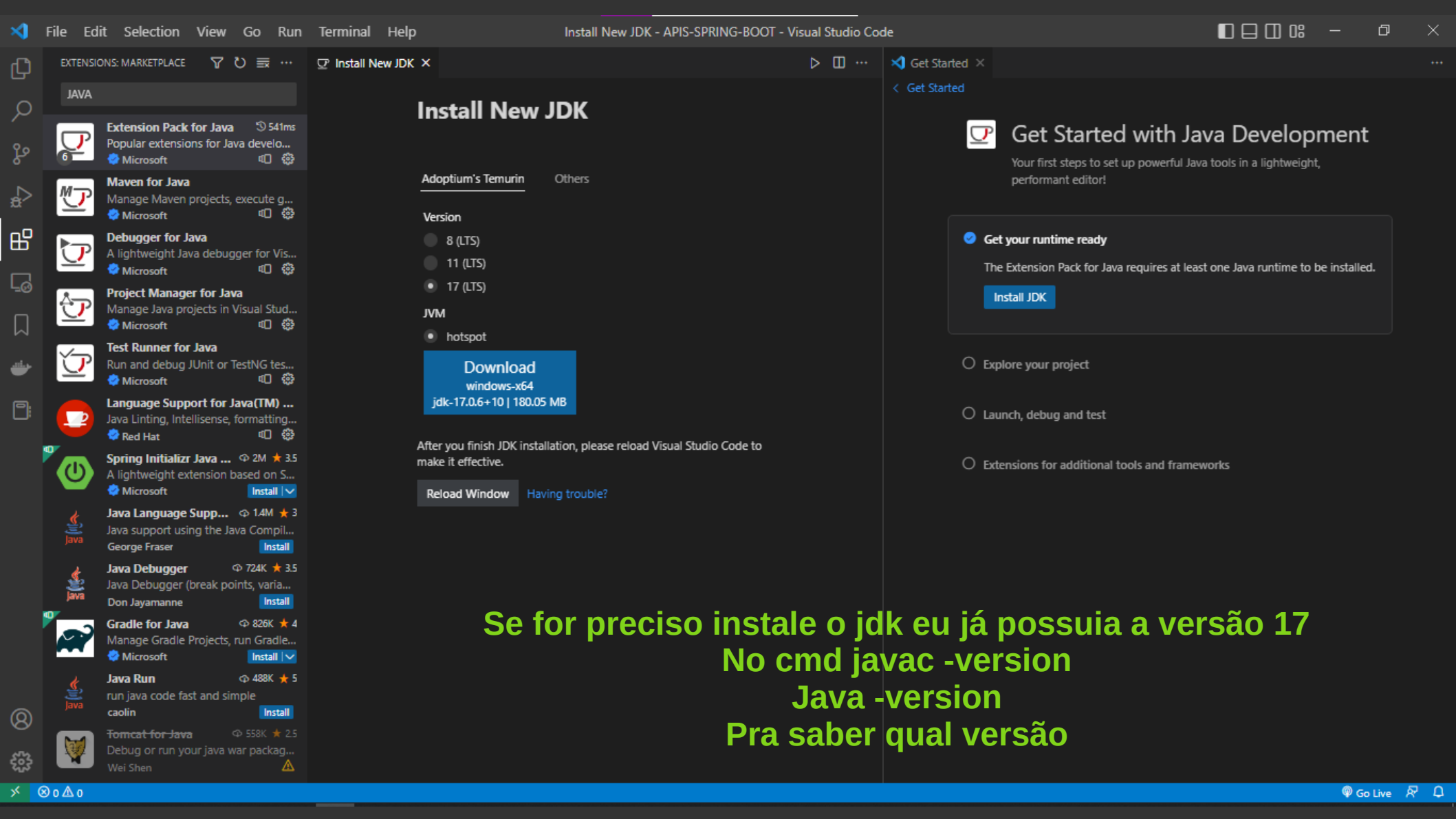

OS (E:)
Gerenciar
Arquivo
Início
Compartilhar
Exibir
Ferramentas de Unidade
Fixar no Acesso rápido
Copiar
Colar
Mover para
Copiar para
Excluir
Renomear
Nova pasta
Propriedades
Selecionar
Área de Transferência
Organizar
Novo
Abrir
Este Computador › OS (E:)
Pesquisar em OS (...
Área de Trabalho
Documentos
Downloads
Imagens
Músicas
Objetos 3D
Vídeos
OS (C:)
OS (D:)
OS (E:)
OS (F:)
Rede
Linux
Nome
Data de modificação
Tipo
CONF-TEL-AKILLES.txt 28/03/2022 10:19
EX-C.txt 24/07/2022 21:24
glut.odp 12/07/2022 22:42
glut-erro.pdf 12/07/2022 22:42
LIVRO_LinguagemCAprendendoExercici... 20/07/2022 19:30
OPENGL.odp 12/07/2022 21:27
pildoras.txt 13/08/2022 18:00
procentagem.txt 10/04/2022 21:06
Sem título 1.odp 12/07/2022 18:14
VAGAS.txt 19/07/2022 18:22
VETOR.txt 12/04/2022 13:48
SPRING-QUESTIONS.txt 21/01/2023 14:04
APIS-SPRING-BOOT 21/01/2023 14:08
32 itens
1 item selecionado
Abrir
Abrir em nova janela
Fixar no Acesso rápido
Abrir com o Visual Studio
Open with Atom
Open as Brackets project
Git GUI Here
Git Bash Here
Open Folder as IntelliJ IDEA Community Edition Project
Open Folder as PyCharm Community Edition Project
Abrir com Code
Verificar com o Microsoft Defender...
Conceder acesso a
SVN Checkout...
TortoiseSVN
Restaurar versões anteriores
Incluir na biblioteca
Fixar em Iniciar
Add to archive...
Add to "APIS-SPRING-BOOT.rar"
Compress and email...
Compress to "APIS-SPRING-BOOT.rar" and email
Enviar para
Recortar
Copiar
Criar atalho
Excluir
Renomear
Propriedades
CRIE UMA PASTA E ABRA ELA COM O VSCODE
28°C Nublado
14:09

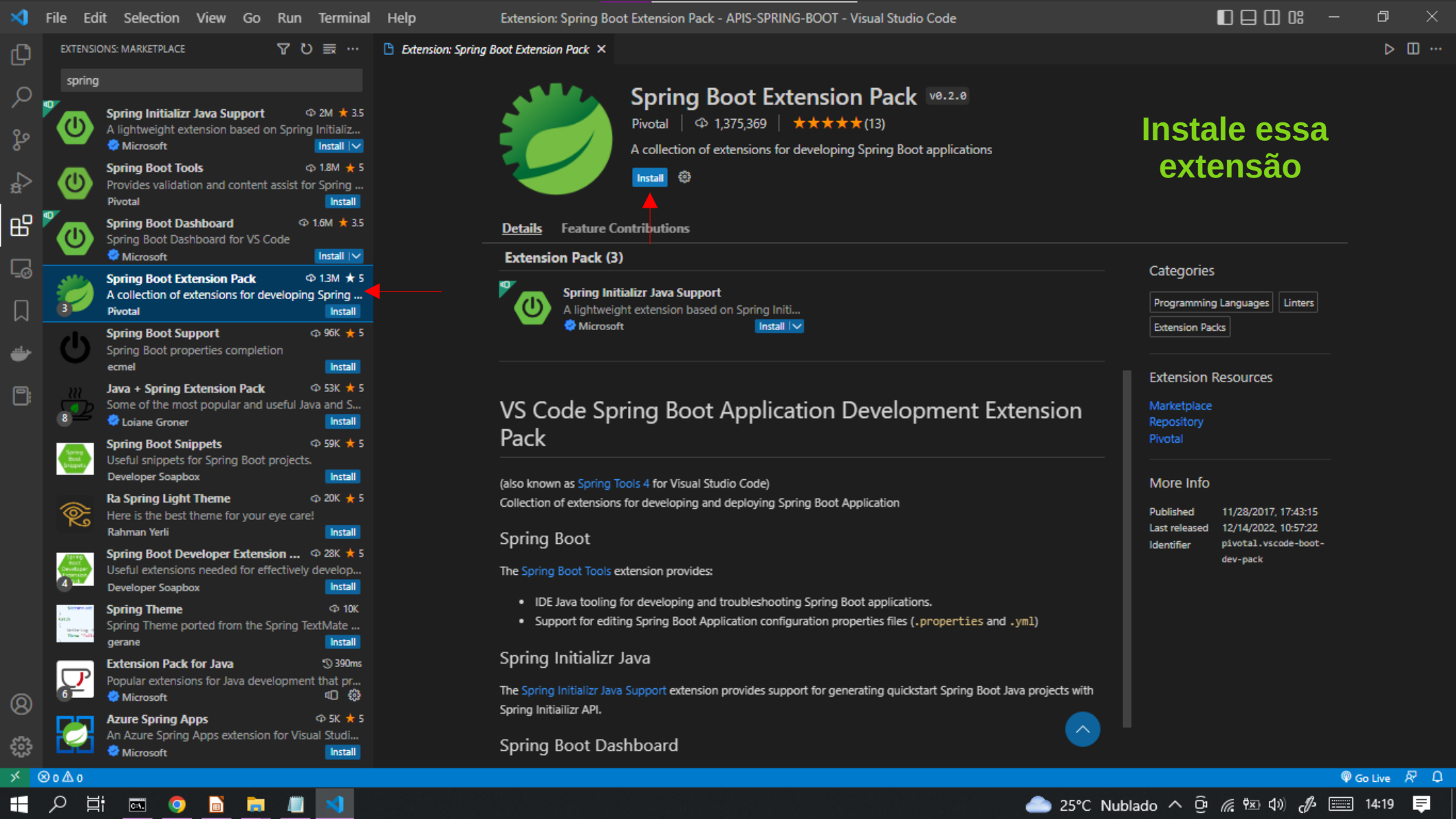
INSTALANDO AS EXTENSÕES NECESSÁRIAS

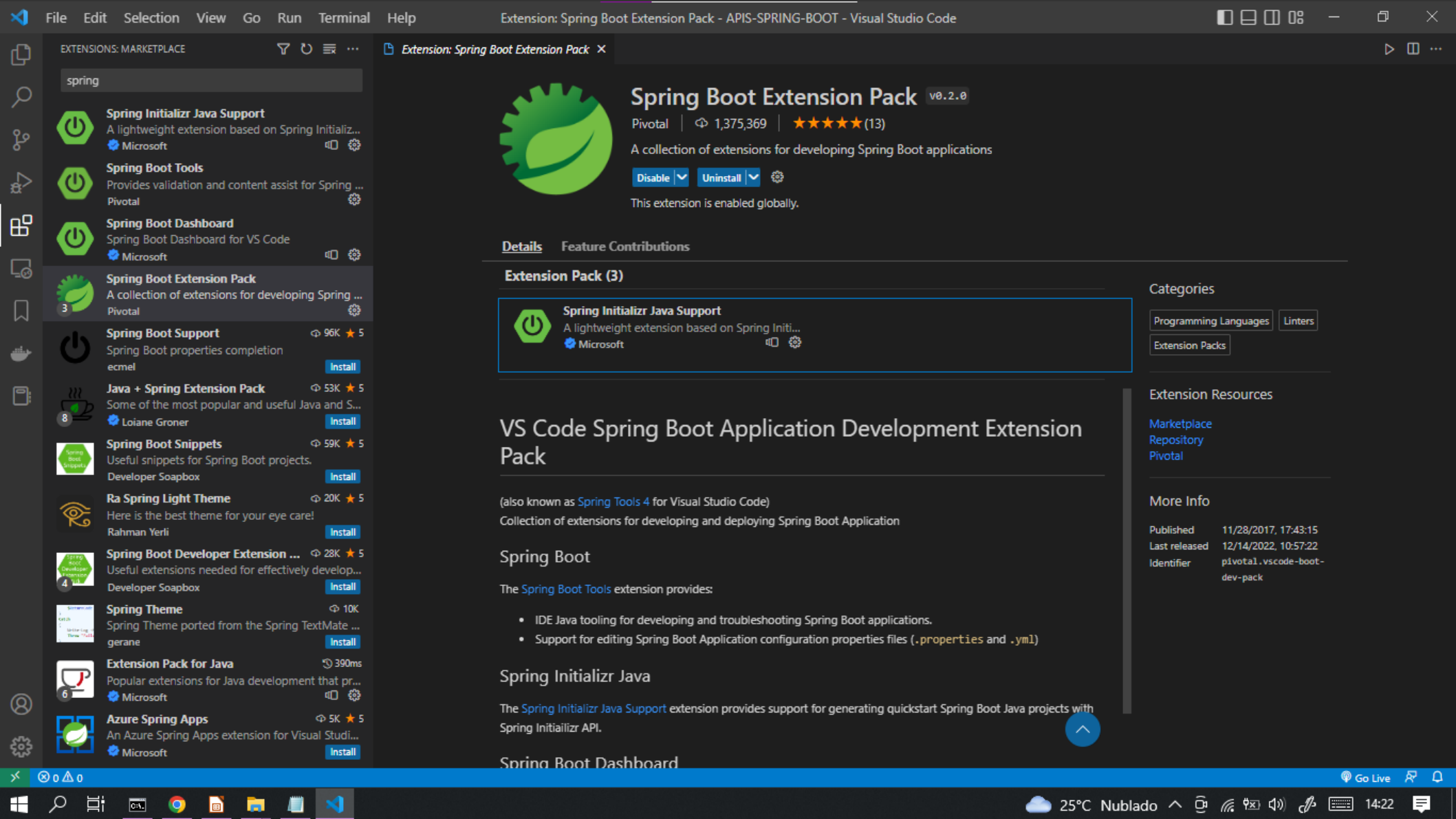



File
Edit
Selection
View
Go
Run
EXTENSIONS: MARKETPLACE
JAVA
Extension Pack for Java
17M
Popular extensions for Java develo...
Microsoft
Install
Maven for Java
18.2M
Manage Maven projects, execute g...
Microsoft
Install
Debugger for Java
19.1M
A lightweight Java debugger for Vis...
Microsoft
Install


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 develo...
Microsoft Install
Maven for Java 18.2M 4
Manage Maven projects, execute g...
Microsoft Install
Debugger for Java 19.1M 4
A lightweight Java debugger for Vis...
Microsoft Install
Project Manager for J... 17M 4
Manage Java projects in Visual Studi...
Microsoft Install
Test Runner for Java 17.5M 4
Run and debug JUnit or TestNG tes...
Microsoft Install
Language Support ... 21.2M 3.5
Java Linting, Intellisense, formatting...
Red Hat Install
Spring Initializr Java ... 2M 3.5
A lightweight extension based on S...
Microsoft Install
Java Language Supp... 1.4M 3
Java support using the Java Compil...
George Fraser Install
Java Debugger 724K 3.5
Java Debugger (break points, varia...
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 mana
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, refactor...
Red Hat Install
Debugger for Java
A lightweight Java debugger for Visual Studi...
Microsoft Install
Maven for Java
Manage Maven projects, execute goals, gen...
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
Linters
Debuggers
Extension Packs
Extension Resources
Marketplace
Repository
License
Microsoft
More Info
Published 9/27/2017, 06:3
Last released 11/29/2022, 02


File Edit Selection View Go Run Terminal Help
Install New JDK - APIS-SPRING-BOOT - Visual Studio Code
EXTENSIONS: MARKETPLACE
JAVA
Extension Pack for Java 541ms
Popular extensions for Java develo...
Microsoft
Maven for Java
Manage Maven projects, execute g...
Microsoft
Debugger for Java
A lightweight Java debugger for Vis...
Microsoft
Project Manager for Java
Manage Java projects in Visual Stud...
Microsoft
Test Runner for Java
Run and debug JUnit or TestNG tes...
Microsoft
Language Support for Java(TM) ...
Java Linting, Intellisense, formatting...
Red Hat
Spring Initializr Java ... 2M 3.5
A lightweight extension based on S...
Microsoft
Install
Java Language Supp... 1.4M 3
Java support using the Java Compil...
George Fraser
Install
Java Debugger 724K 3.5
Java Debugger (break points, varia...
Don Jayamanne
Install
Gradle for Java 826K 4
Manage Gradle Projects, run Gradle...
Microsoft
Install
Java Run 488K 5
run java code fast and simple
caolin
Install
Tomcat for Java 558K 2.5
Debug or run your java war packag...
Wei Shen
Install New JDK
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
Get Started
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
Go Live


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
Install
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
Java + Spring Extension Pack
Some of the most popular and useful Java and S...
Loiane Groner
Spring Boot Snippets
Useful snippets for Spring Boot projects.
Developer Soapbox
Ra Spring Light Theme
Here is the best theme for your eye care!
Rahman Yerli
Spring Boot Developer Extension ...
Useful extensions needed for effectively develop...
Developer Soapbox
Spring Theme
Spring Theme ported from the Spring TextMate ...
gerane
Extension Pack for Java
Popular extensions for Java development that pr...
Microsoft
Azure Spring Apps
An Azure Spring Apps extension for Visual Studi...
Microsoft
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
Instale essa extensão
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 .yml)
Spring Initializr Java
The Spring Initializr Java Support extension provides support for generating quickstart Spring Boot Java projects with Spring Initiailizr API.
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
Go Live
25°C Nublado
14:19


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
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...
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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
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
Spring Boot
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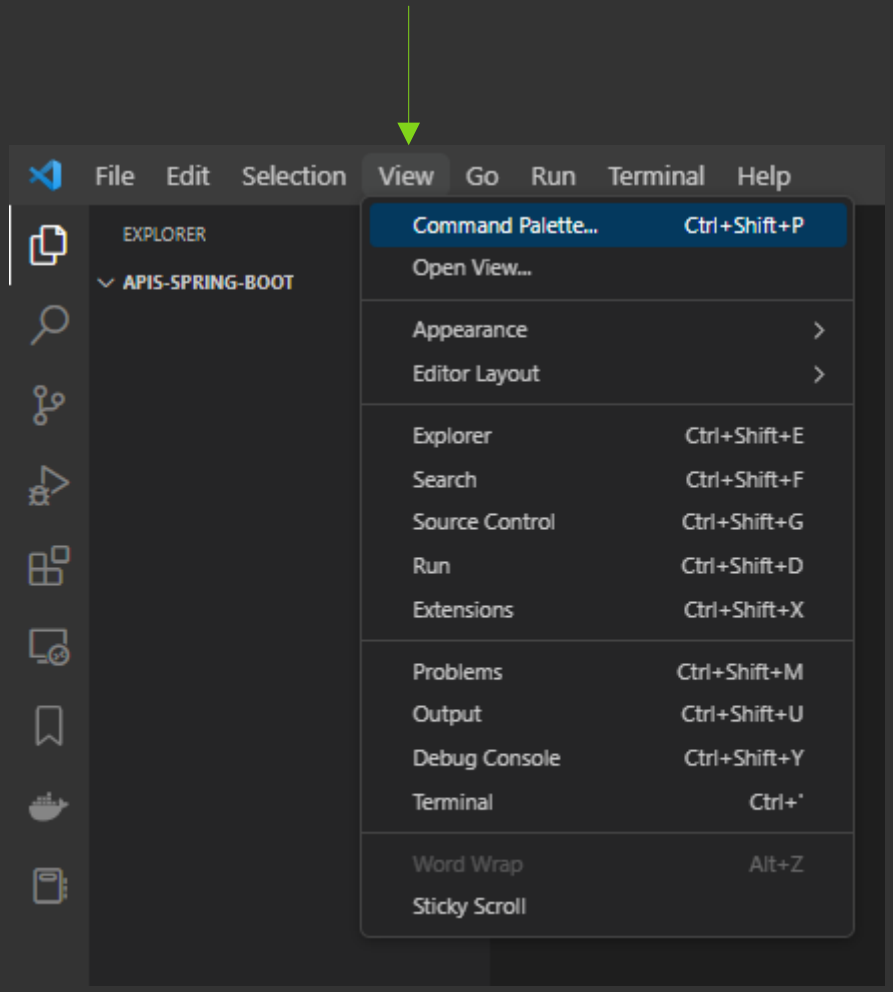
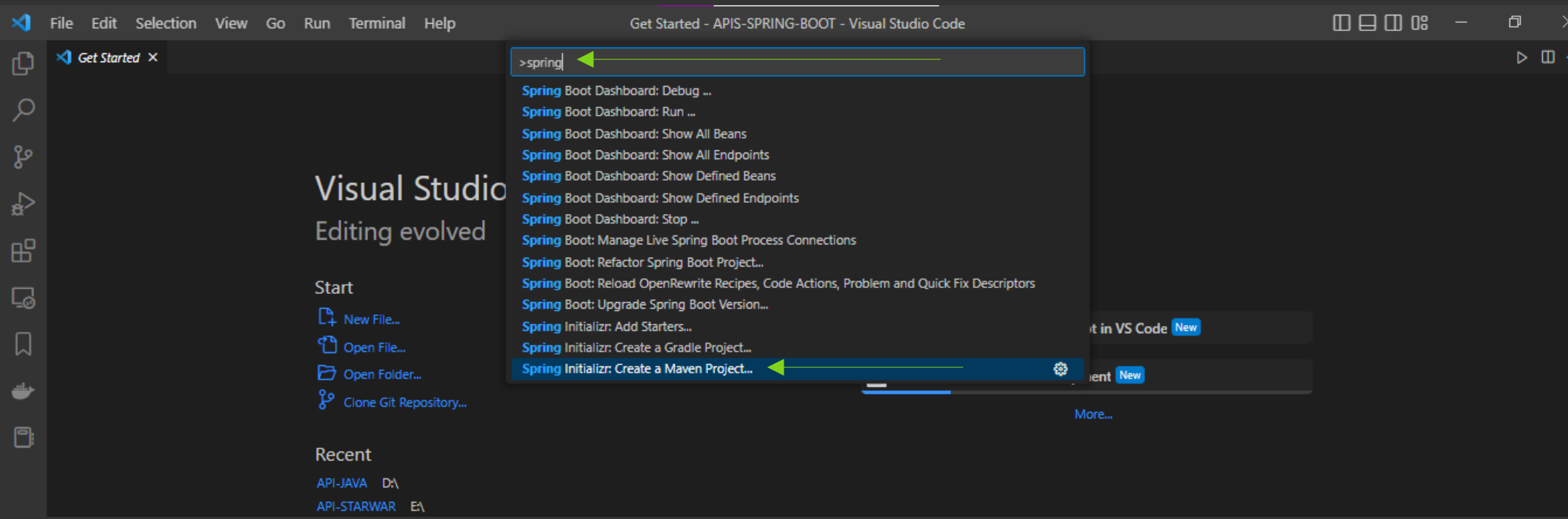
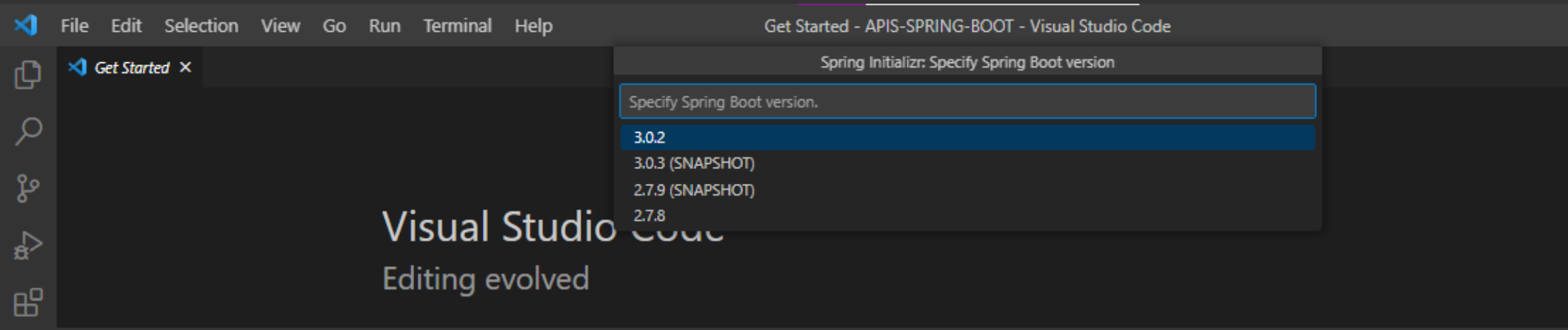
Pivotal
More Info
Published 11/28/2017, 17:43:15
Last released 12/14/2022, 10:57:22
Identifier pivotal.vscode-boot-dev-pack
Go Live
25°C Nublado
14:22

CRIANDO O PROJETO

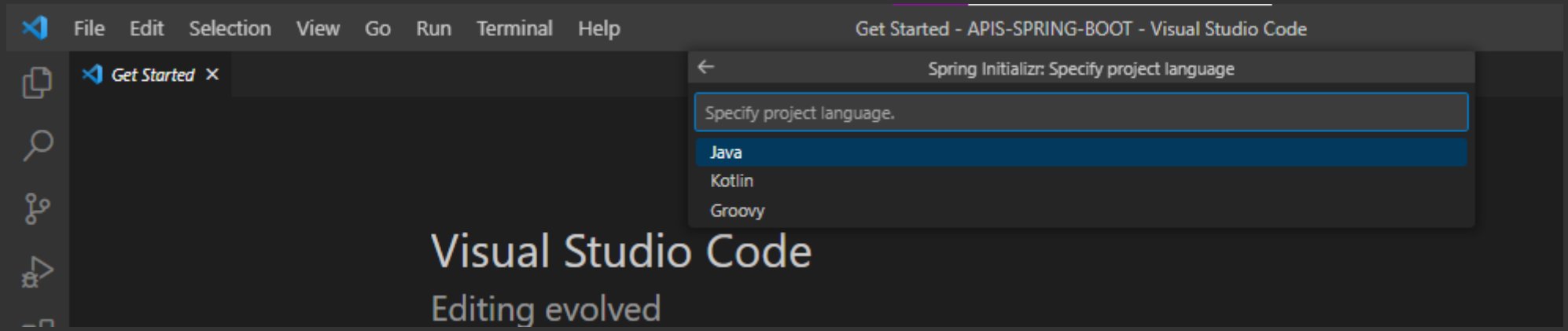

File
Edit
Selection
View
Go
Run
Terminal
Help
EXPLORER
APIS-SPRING-BOOT
Command Palette... Ctrl+Shift+P
Open View...
Appearance
Editor Layout
Explorer Ctrl+Shift+E
Search Ctrl+Shift+F
Source Control Ctrl+Shift+G
Run Ctrl+Shift+D
Extensions Ctrl+Shift+X
Problems Ctrl+Shift+M
Output Ctrl+Shift+U
Debug Console Ctrl+Shift+Y
Terminal Ctrl+`
Word Wrap Alt+Z
Sticky Scroll



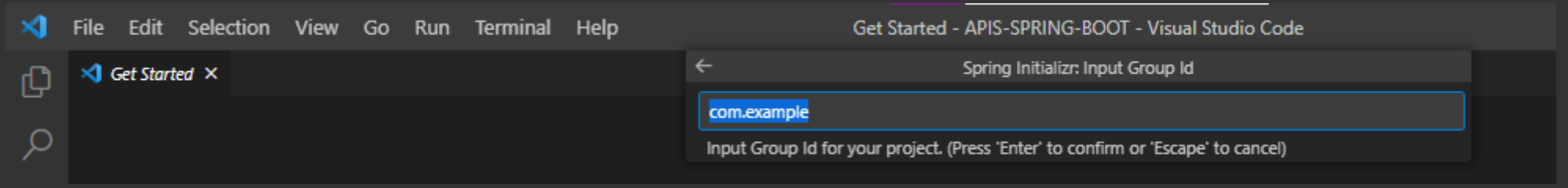
Digite spring e adicione spring initializr do maven
Essa que esta marcada ai



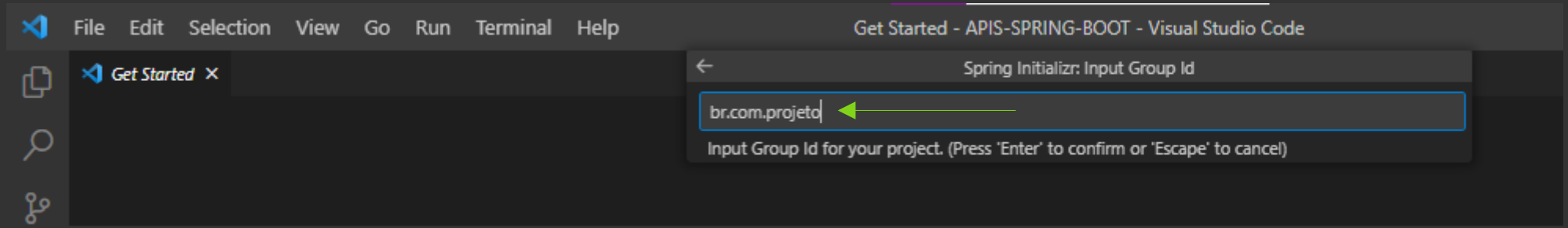
Escolha sua versão nada impede de troca-la mais tarde



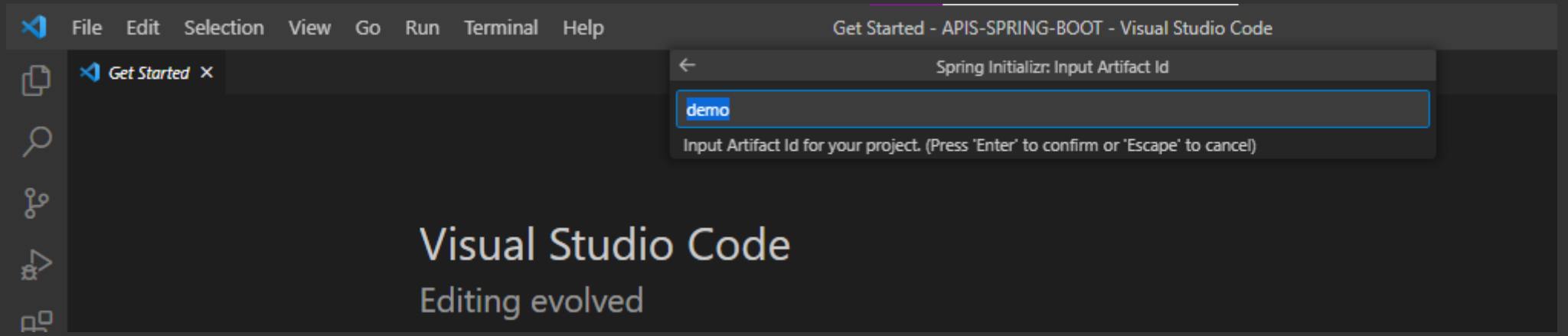
Escolha a linguagem do projeto



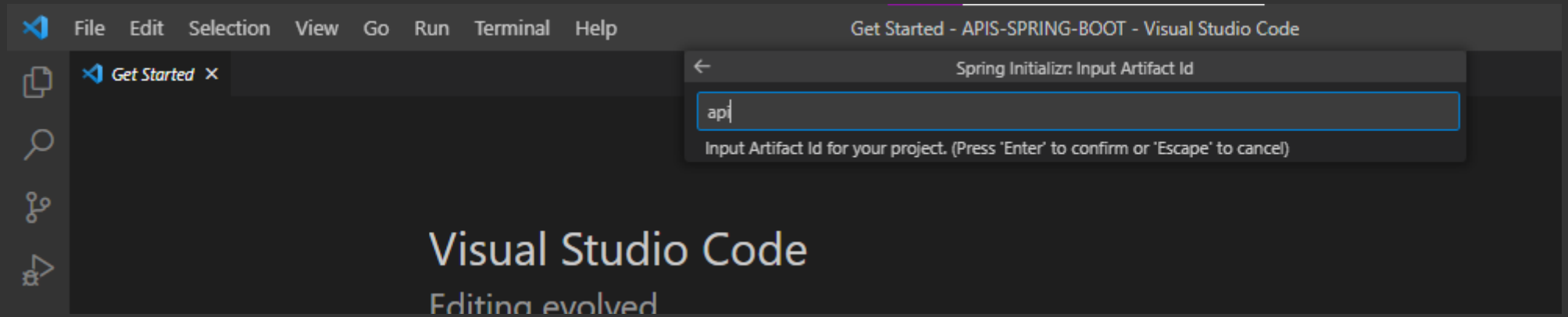
Group é o lugar onde vai ficar o projeto

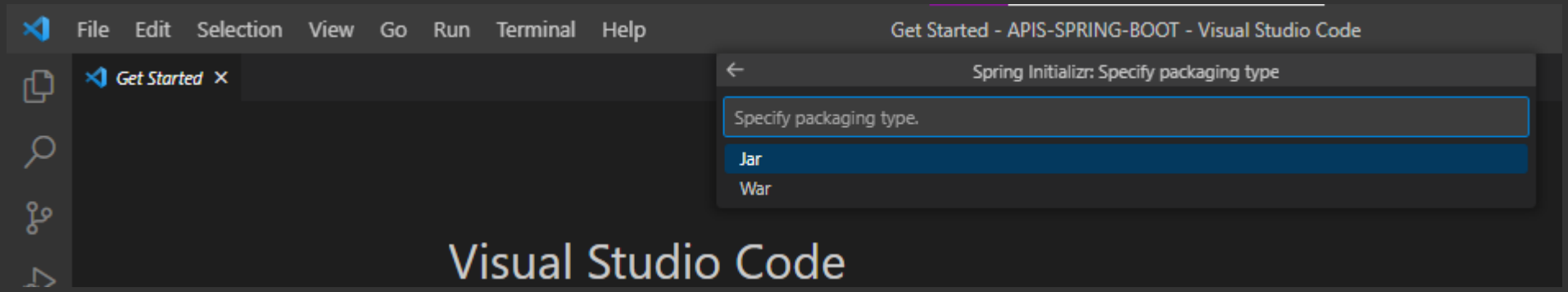


Depois de dar o nome tecle enter

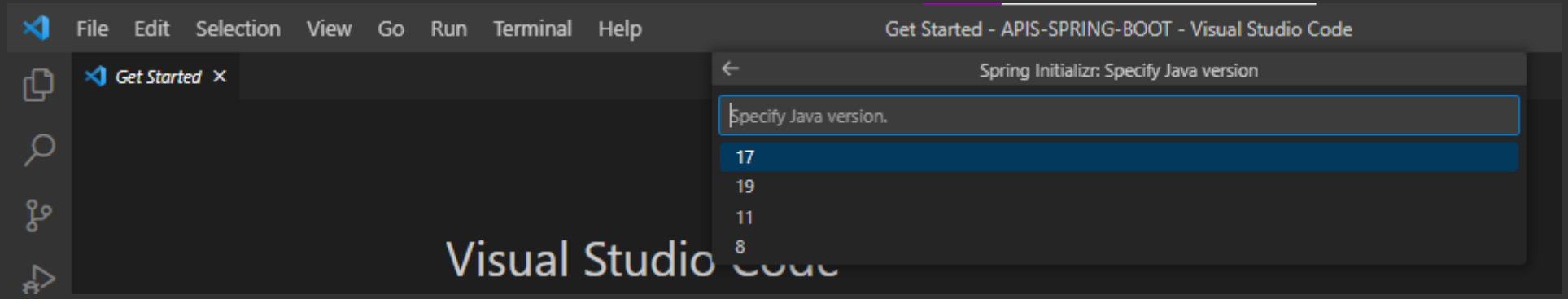


De nome ao projeto

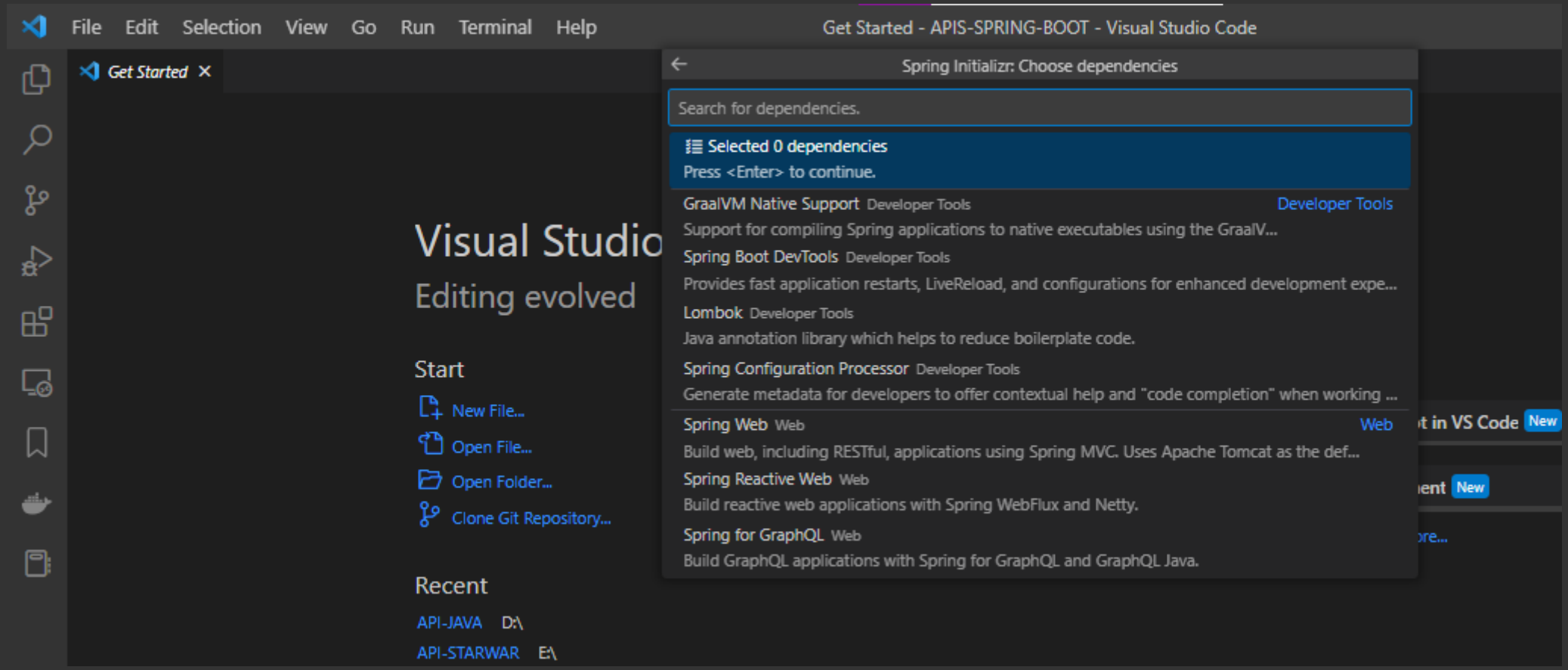




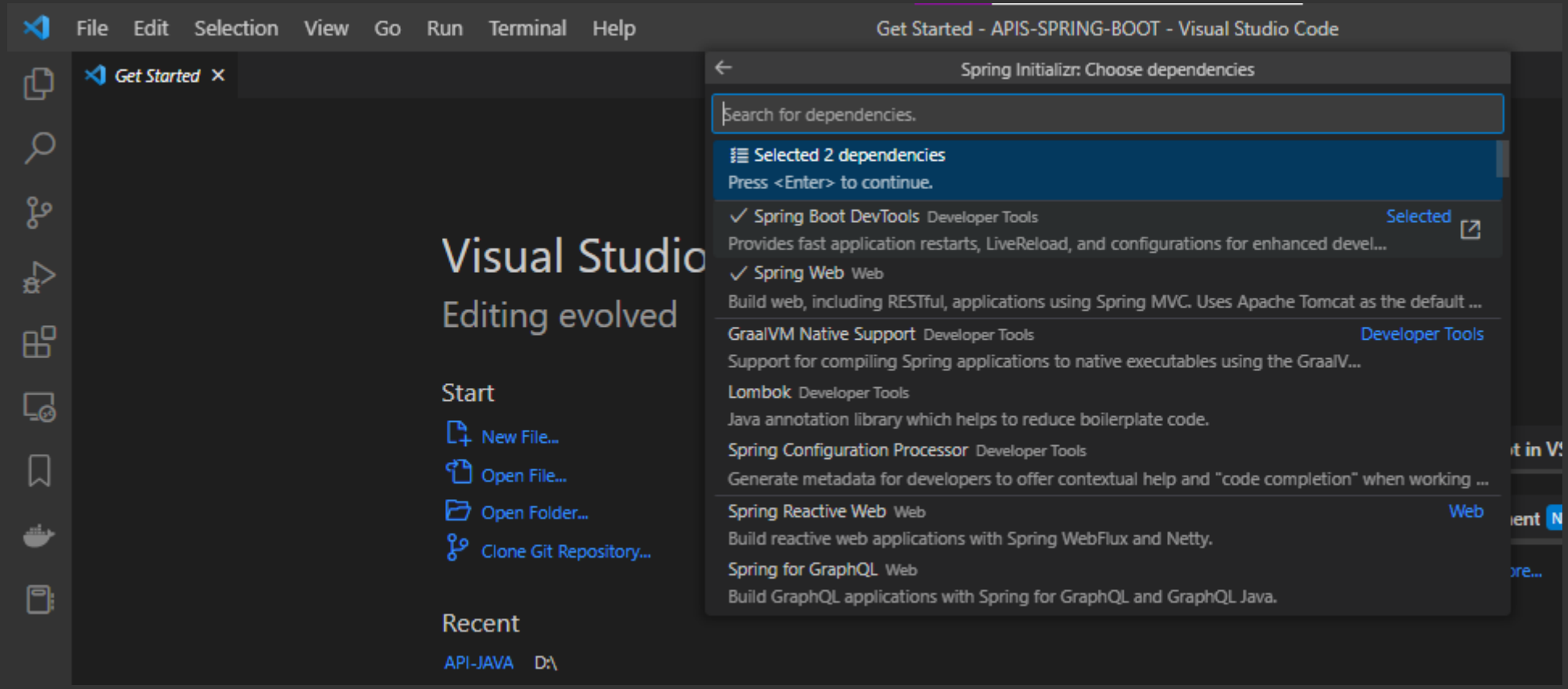
Defina o empacotamento pra jar isso pode ser mudado futuramente



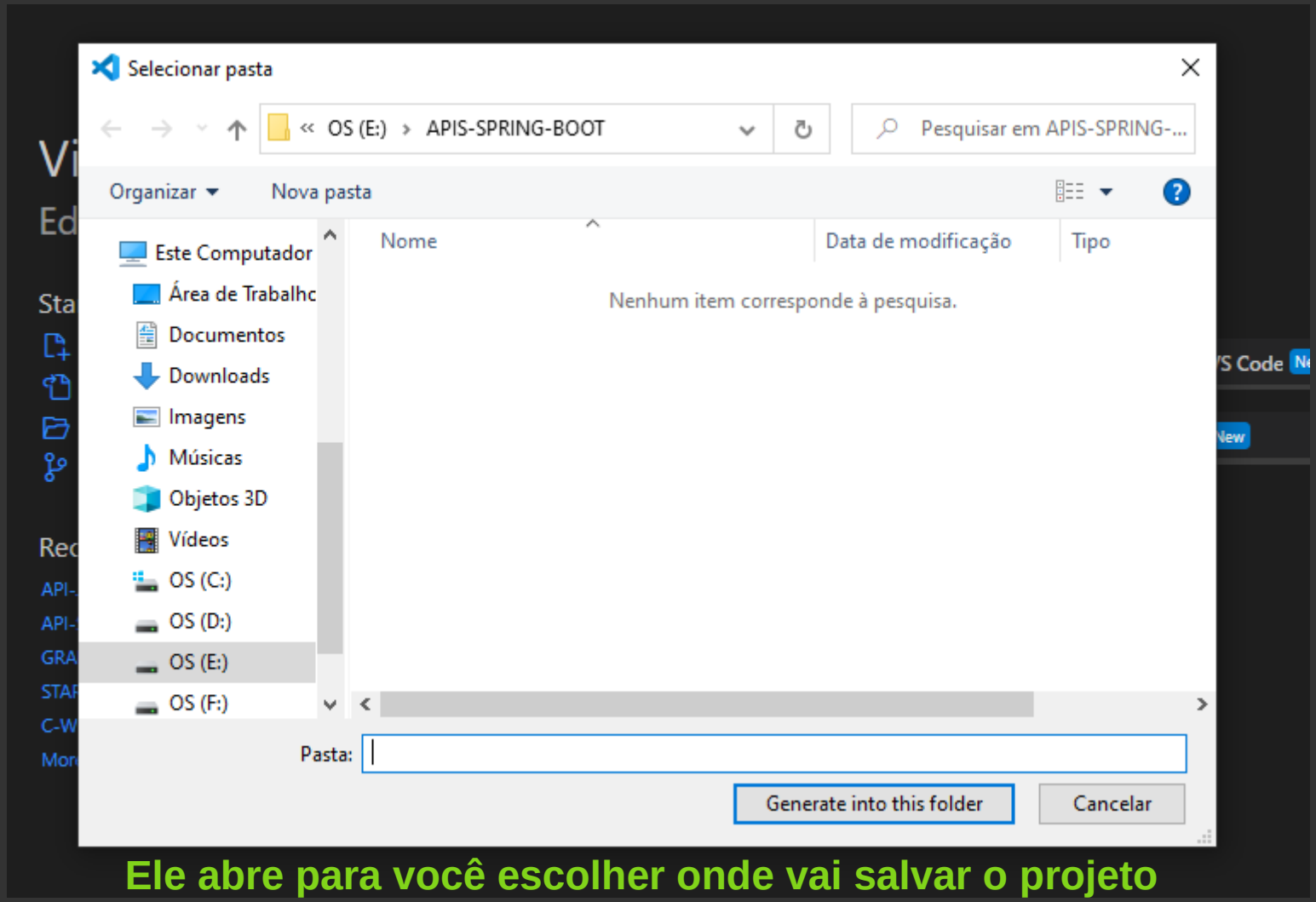
Escolha a versão compativel com a sua versão de java e do jdk a minha como disse é a 17 mais nesse ano 2023 já existe a 19



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

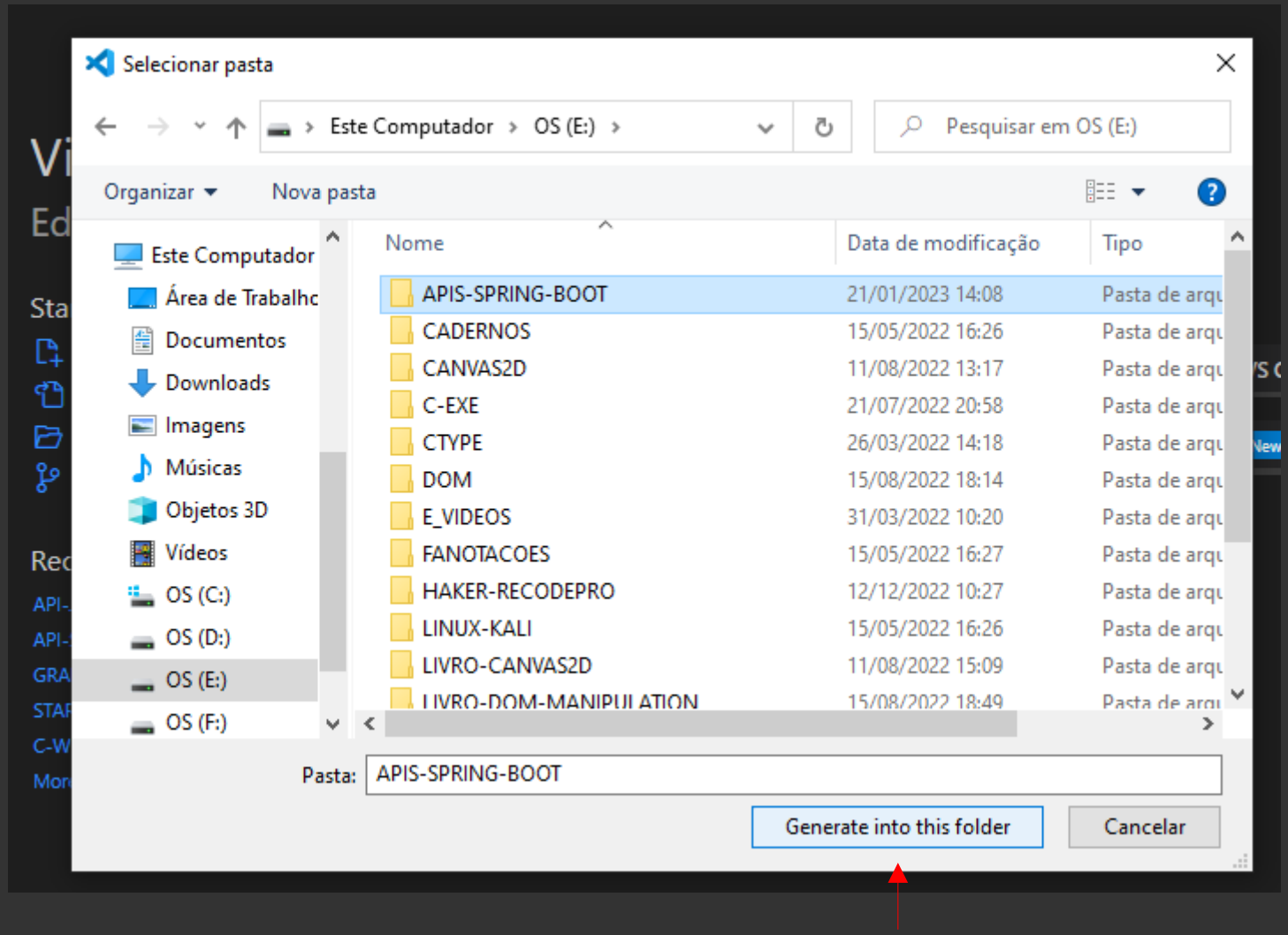


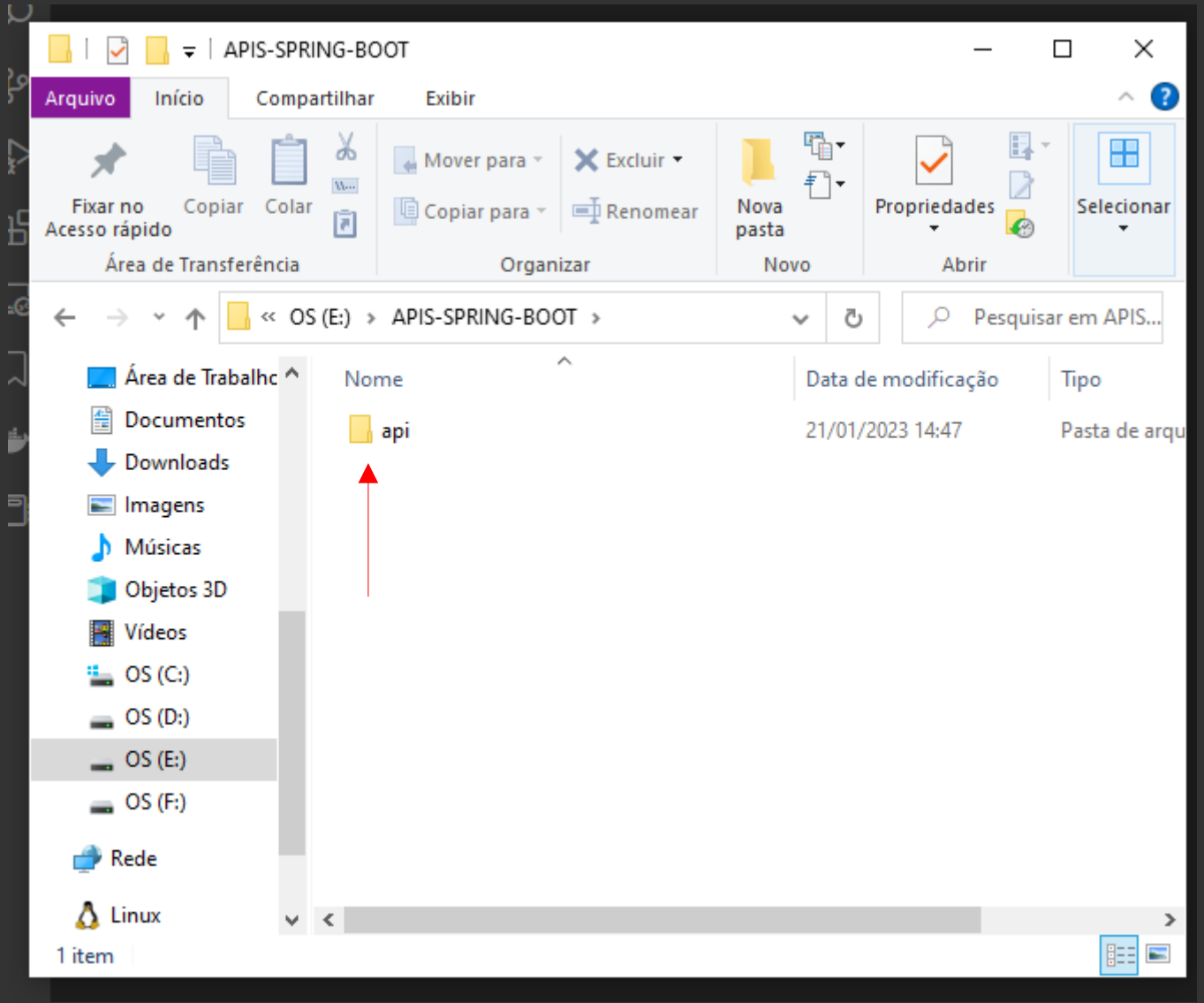
Click para selecionar spring boot dev tools e spring web
Por fim de enter para selecionar



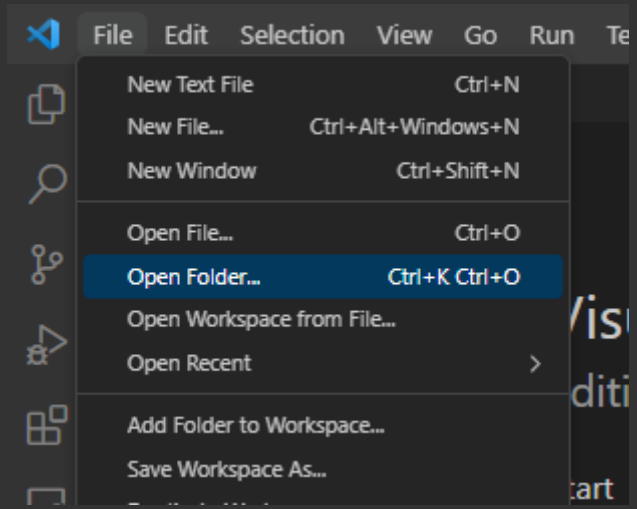
Ele abre para você escolher onde vai salvar o projeto

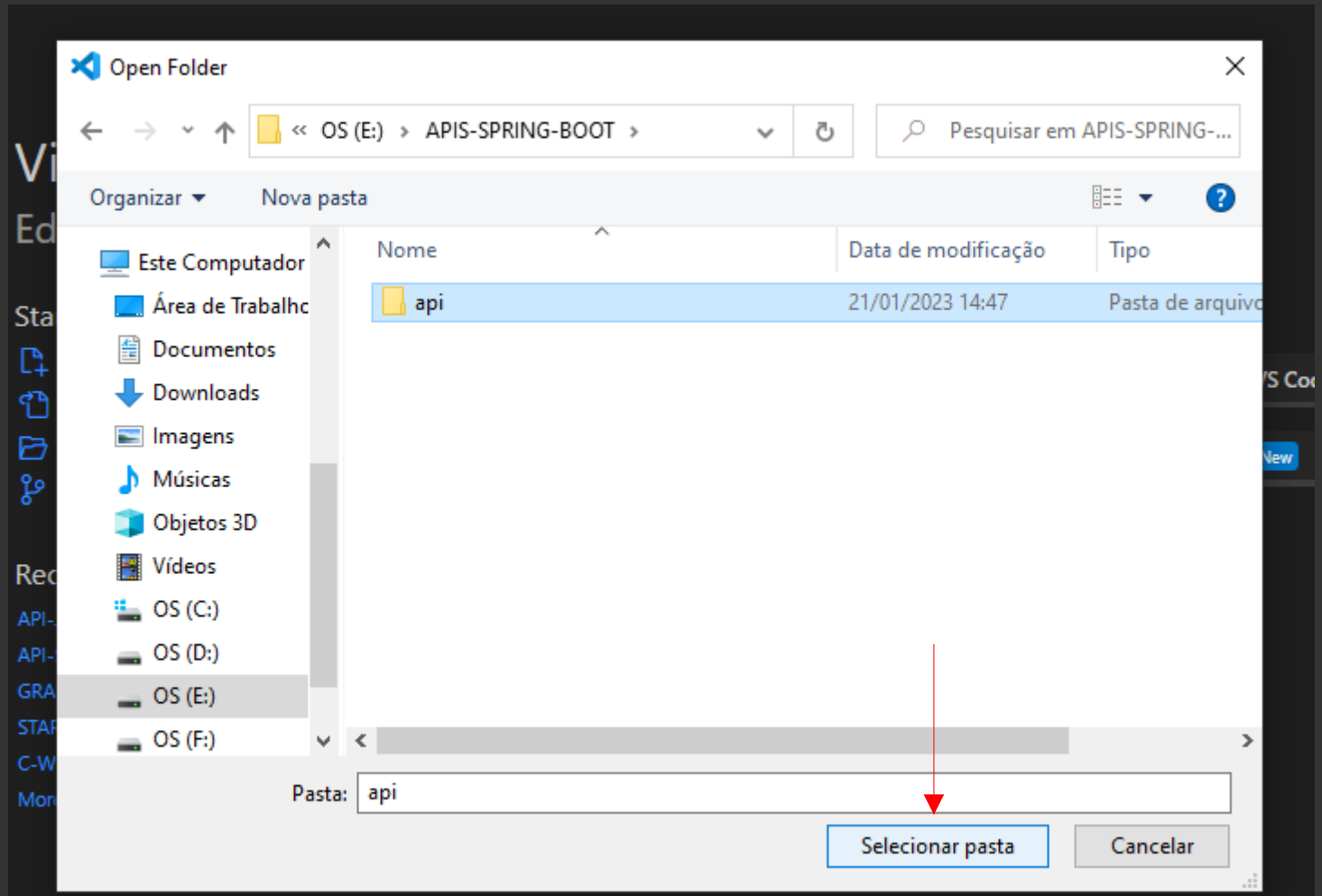
Você pode escolher qualquer pasta para salvar seu projeto

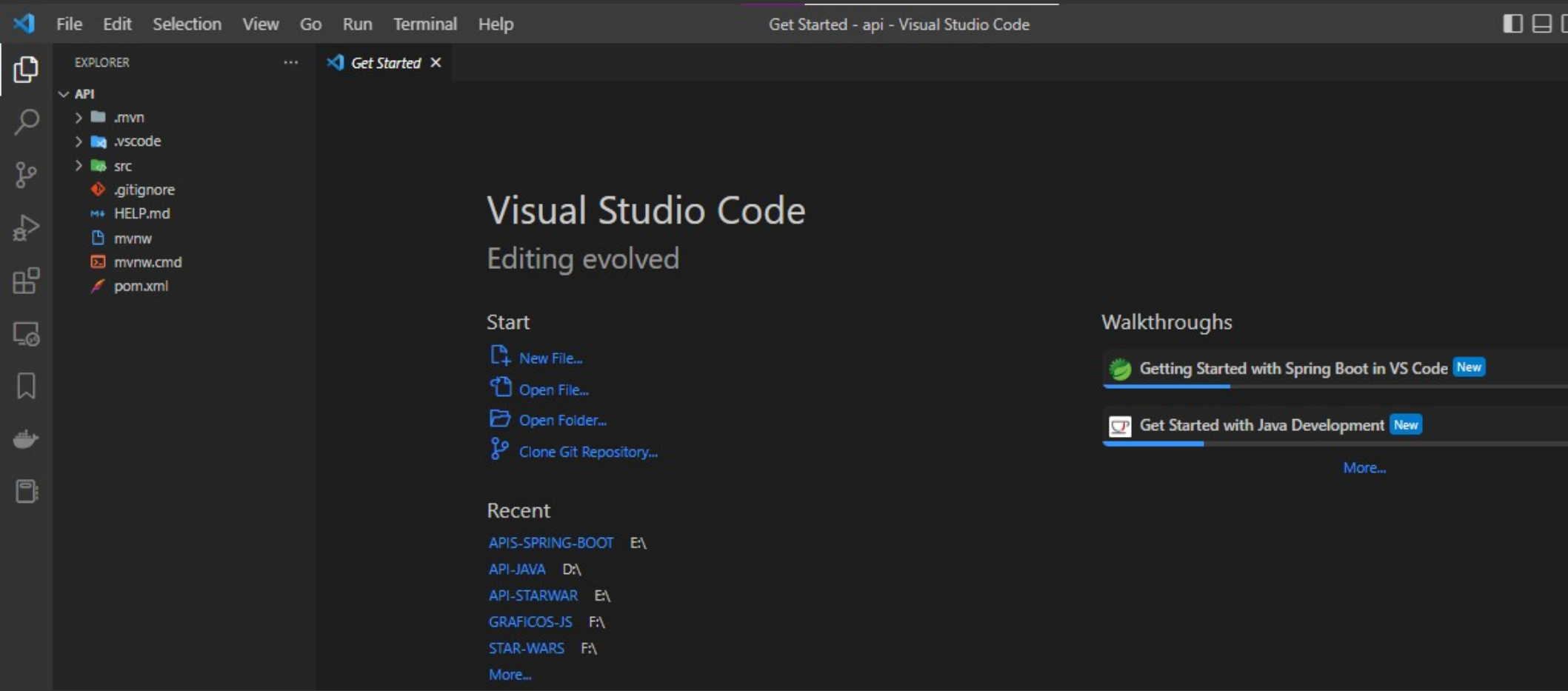

Selecionar pasta
Este Computador › OS (E:) ›
Pesquisar em OS (E:)
Organizar
Nova pasta
Este Computador
Área de Trabalhc
Documentos
Downloads
Imagens
Músicas
Objetos 3D
Vídeos
OS (C:)
OS (D:)
OS (E:)
OS (F:)
Nome
Data de modificação
Tipo
APIS-SPRING-BOOT 21/01/2023 14:08 Pasta de arqu
CADERNOS 15/05/2022 16:26 Pasta de arqu
CANVAS2D 11/08/2022 13:17 Pasta de arqu
C-EXE 21/07/2022 20:58 Pasta de arqu
CTYPE 26/03/2022 14:18 Pasta de arqu
DOM 15/08/2022 18:14 Pasta de arqu
E_VIDEOS 31/03/2022 10:20 Pasta de arqu
FANOTACOES 15/05/2022 16:27 Pasta de arqu
HAKER-RECODEPRO 12/12/2022 10:27 Pasta de arqu
LINUX-KALI 15/05/2022 16:26 Pasta de arqu
LIVRO-CANVAS2D 11/08/2022 15:09 Pasta de arqu
Pasta: APIS-SPRING-BOOT
Generate into this folder
Cancelar


APIS-SPRING-BOOT
Arquivo
Início
Compartilhar
Exibir
Fixar no Acesso rápido
Copiar
Colar
Área de Transferência
Mover para
Copiar para
Excluir
Renomear
Organizar
Nova pasta
Novo
Propriedades
Abrir
Selecionar
« OS (E:) › APIS-SPRING-BOOT ›
Pesquisar em APIS...
Área de Trabalhc
Documentos
Downloads
Imagens
Músicas
Objetos 3D
Vídeos
OS (C:)
OS (D:)
OS (E:)
OS (F:)
Rede
Linux
Nome
Data de modificação
Tipo
api
21/01/2023 14:47
Pasta de arqu
1 item

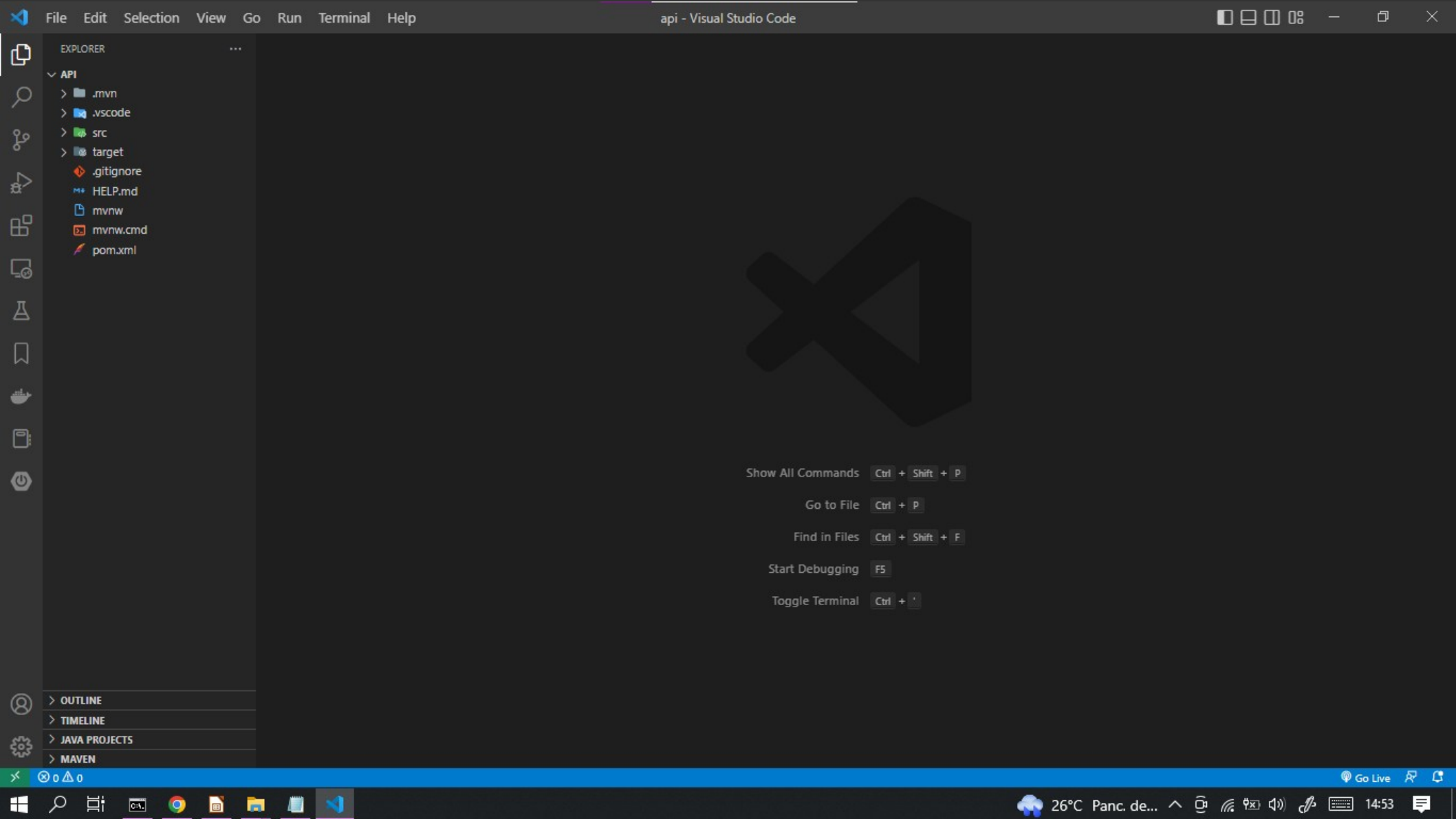
Abrindo a pasta que criamos



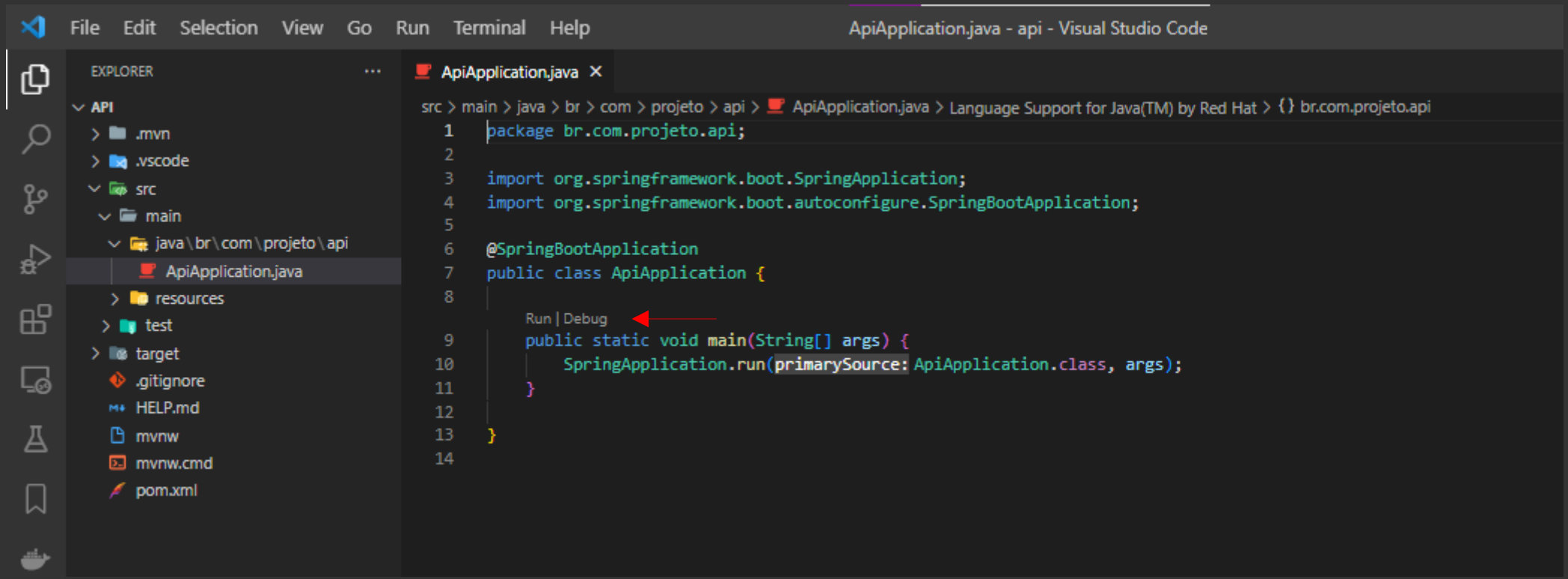

Open Folder
OS (E:) › APIS-SPRING-BOOT ›
Pesquisar em APIS-SPRING-...
Organizar
Nova pasta
Este Computador
Área de Trabalho
Documentos
Downloads
Imagens
Músicas
Objetos 3D
Vídeos
OS (C:)
OS (D:)
OS (E:)
OS (F:)
Nome
Data de modificação
Tipo
api
21/01/2023 14:47
Pasta de arquivo
Pasta:
api
Selecionar pasta
Cancelar



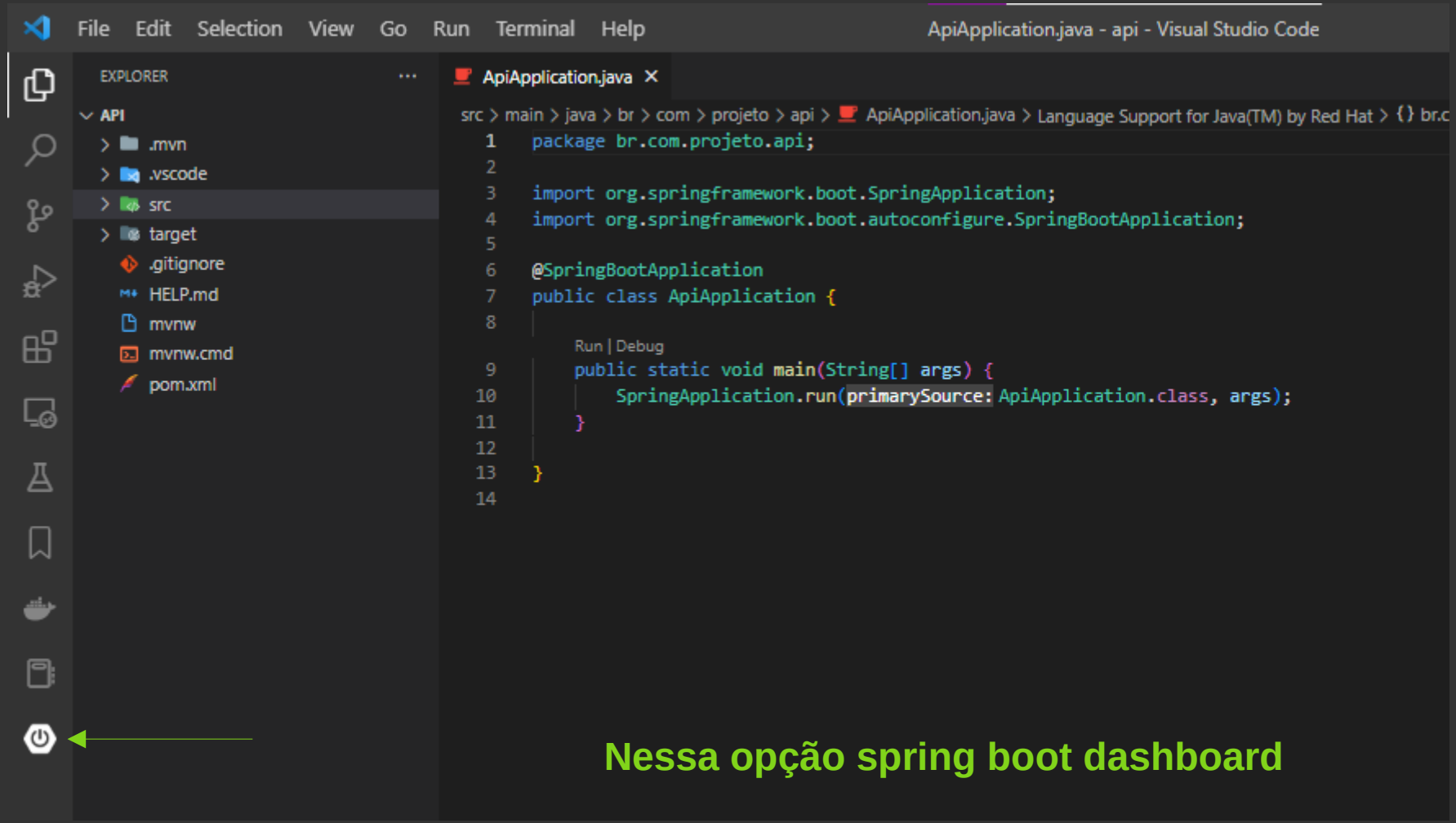
Espere todos ao arquivos serem baixados

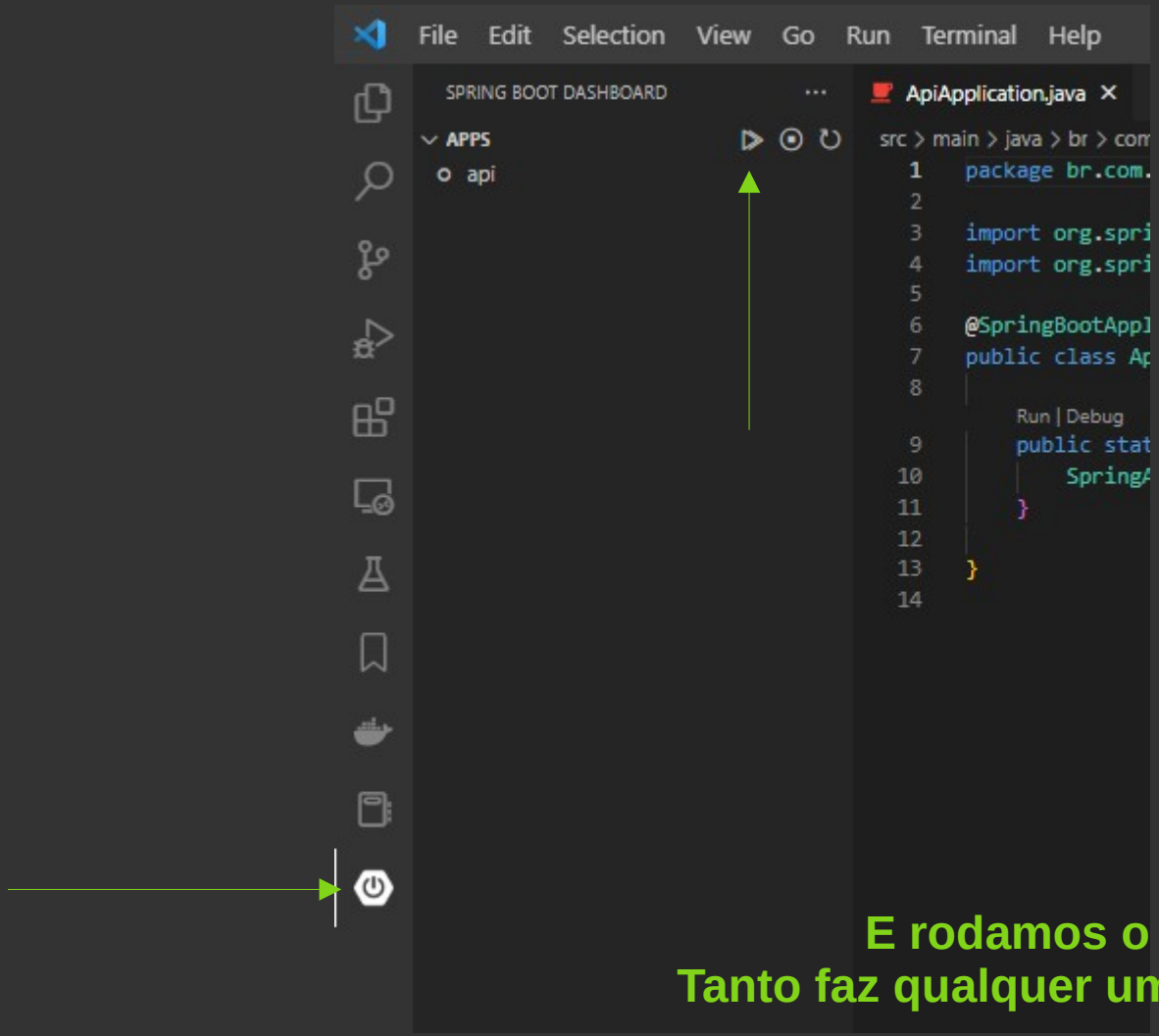

File Edit Selection View Go Run Terminal Help
api - Visual Studio Code
EXPLORER
API
.mvn
.vscode
src
target
.gitignore
HELP.md
mvnw
mvnw.cmd
pom.xml
Show All Commands Ctrl + Shift + P
Go to File Ctrl + P
Find in Files Ctrl + Shift + F
Start Debugging F5
Toggle Terminal Ctrl + '
OUTLINE
TIMELINE
JAVA PROJECTS
MAVEN
Go Live
26°C Panc. de...
14:53

EXECUTANDO PROJETO

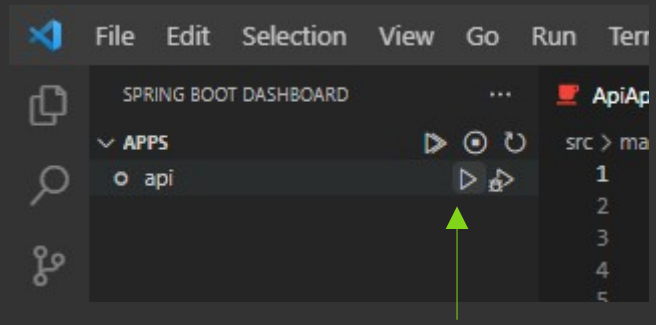


Preste atenção nessas duas opções
Podemos rodar a aplicação com a opção run ou ir la embaixo em...

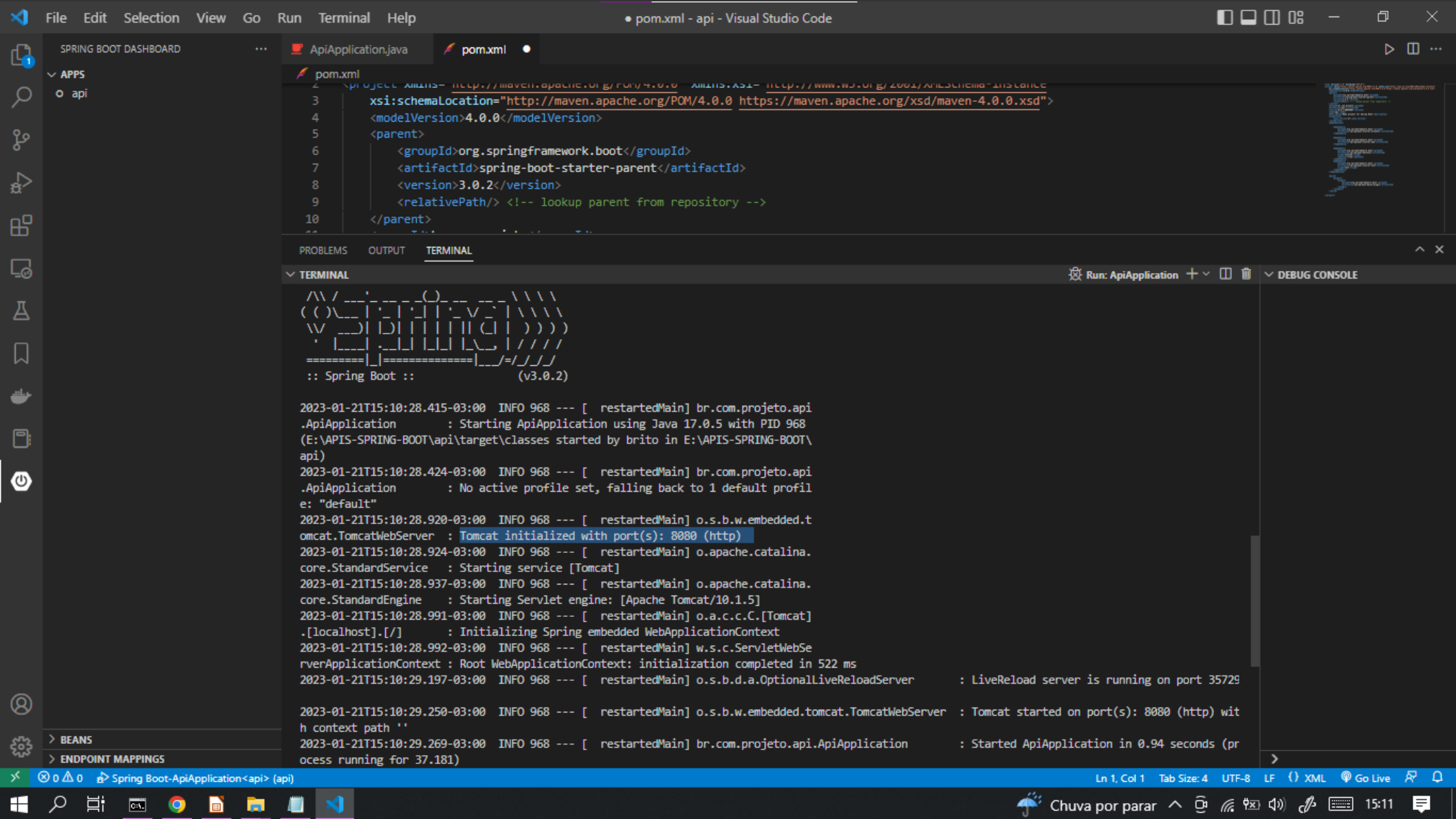

File Edit Selection View Go Run Terminal Help
ApiApplication.java - api - Visual Studio Code
EXPLORER
API
.mvn
.vscode
src
target
.gitignore
HELP.md
mvnw
mvnw.cmd
pom.xml
ApiApplication.java
src > main > java > br > com > projeto > api > ApiApplication.java > Language Support for Java(TM) by Red Hat > { } 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
Run | Debug
9 public static void main(String[] args) {
10 SpringApplication.run(primarySource: ApiApplication.class, args);
11 }
12
13 }
14
Nessa opção spring boot dashboard

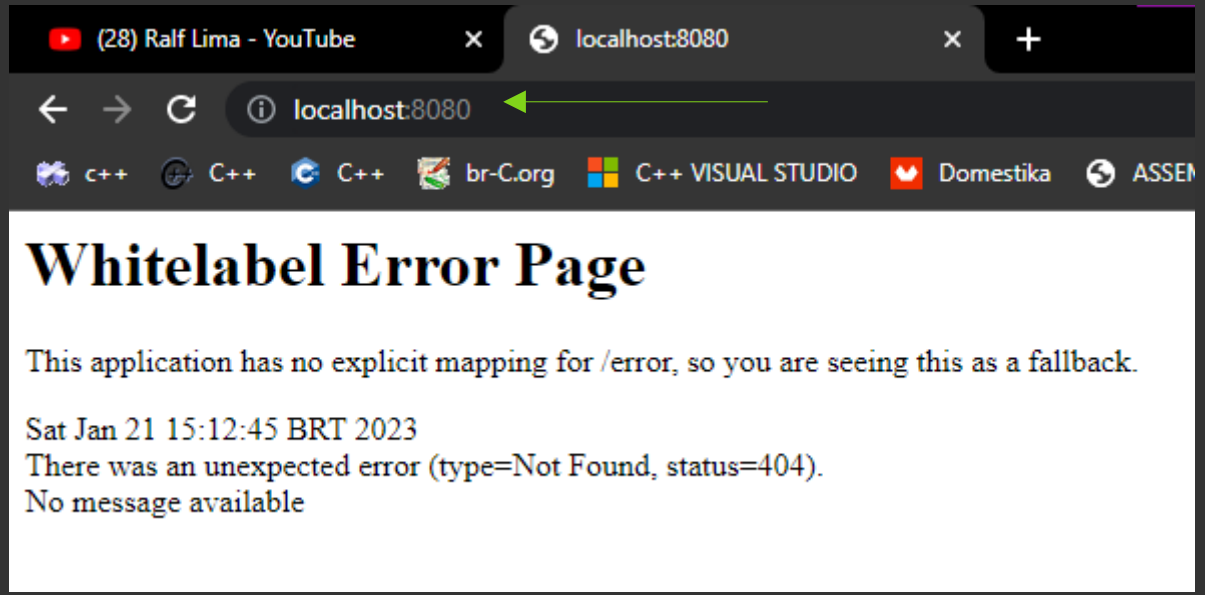


E rodamos o projeto
Tanto faz qualquer uma das escolhas



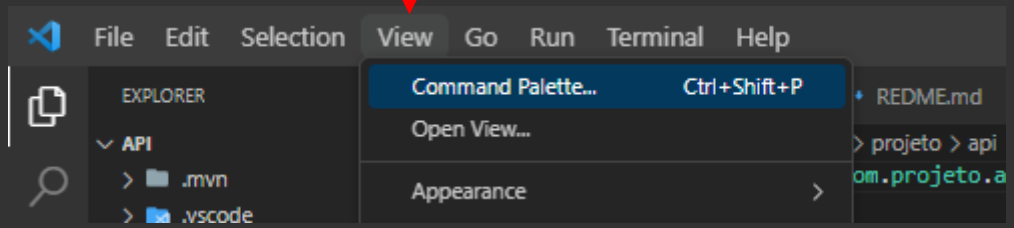
EXECUTE O PROJETO PARA FAZER UM TESTE

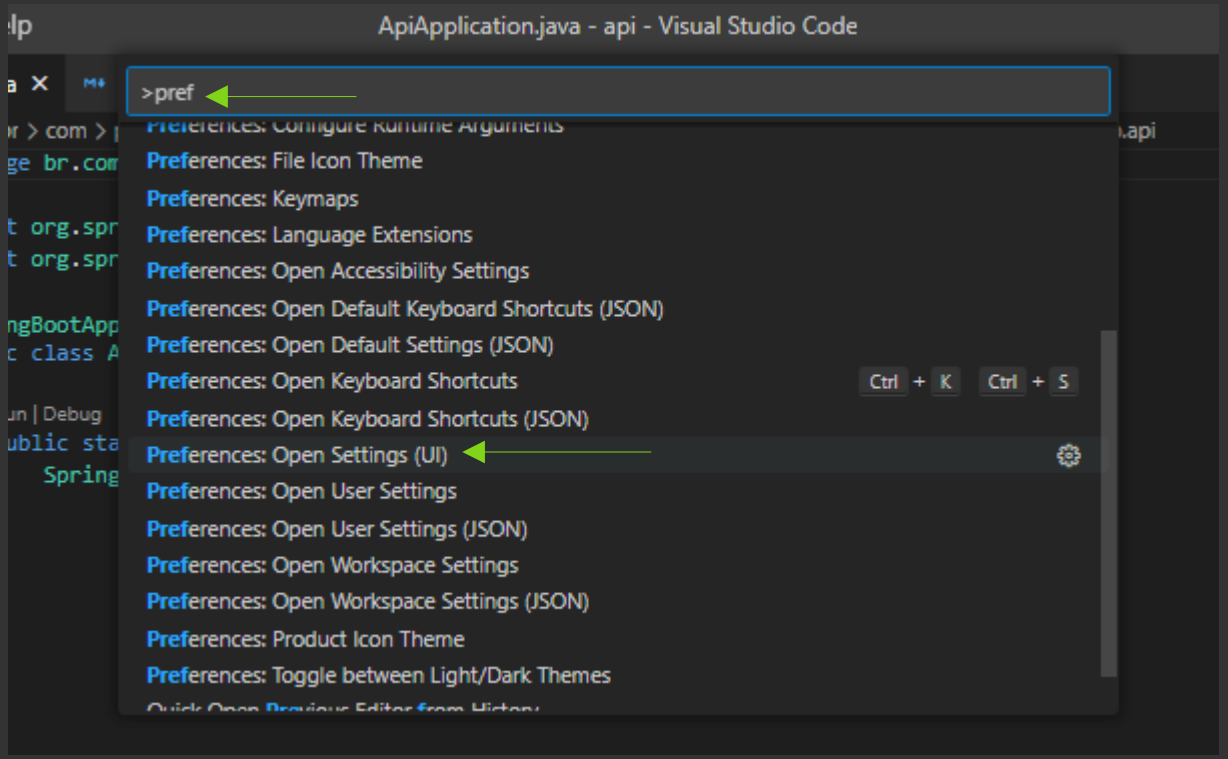

File Edit Selection View Go Run Terminal Help
• pom.xml - api - Visual Studio Code
SPRING BOOT DASHBOARD
APPS
api
ApiApplication.java
pom.xml
pom.xml
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">
<modelVersion>4.0.0</modelVersion>
<parent>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-parent</artifactId>
<version>3.0.2</version>
<relativePath/> <!-- lookup parent from repository -->
</parent>
PROBLEMS
OUTPUT
TERMINAL
TERMINAL
Run: ApiApplication
DEBUG CONSOLE
:: 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)
2023-01-21T15:10:28.924-03:00 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.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.d.a.OptionalLiveReloadServer : LiveReload server is running on port 35729
2023-01-21T15:10:29.250-03:00 INFO 968 --- [restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) wit
h context path ''
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)
BEANS
ENDPOINT MAPPINGS
Spring Boot-ApiApplication<api> (api)
Ln 1, Col 1
Tab Size: 4
UTF-8
LF
XML
Go Live
Chuva por parar
15:11

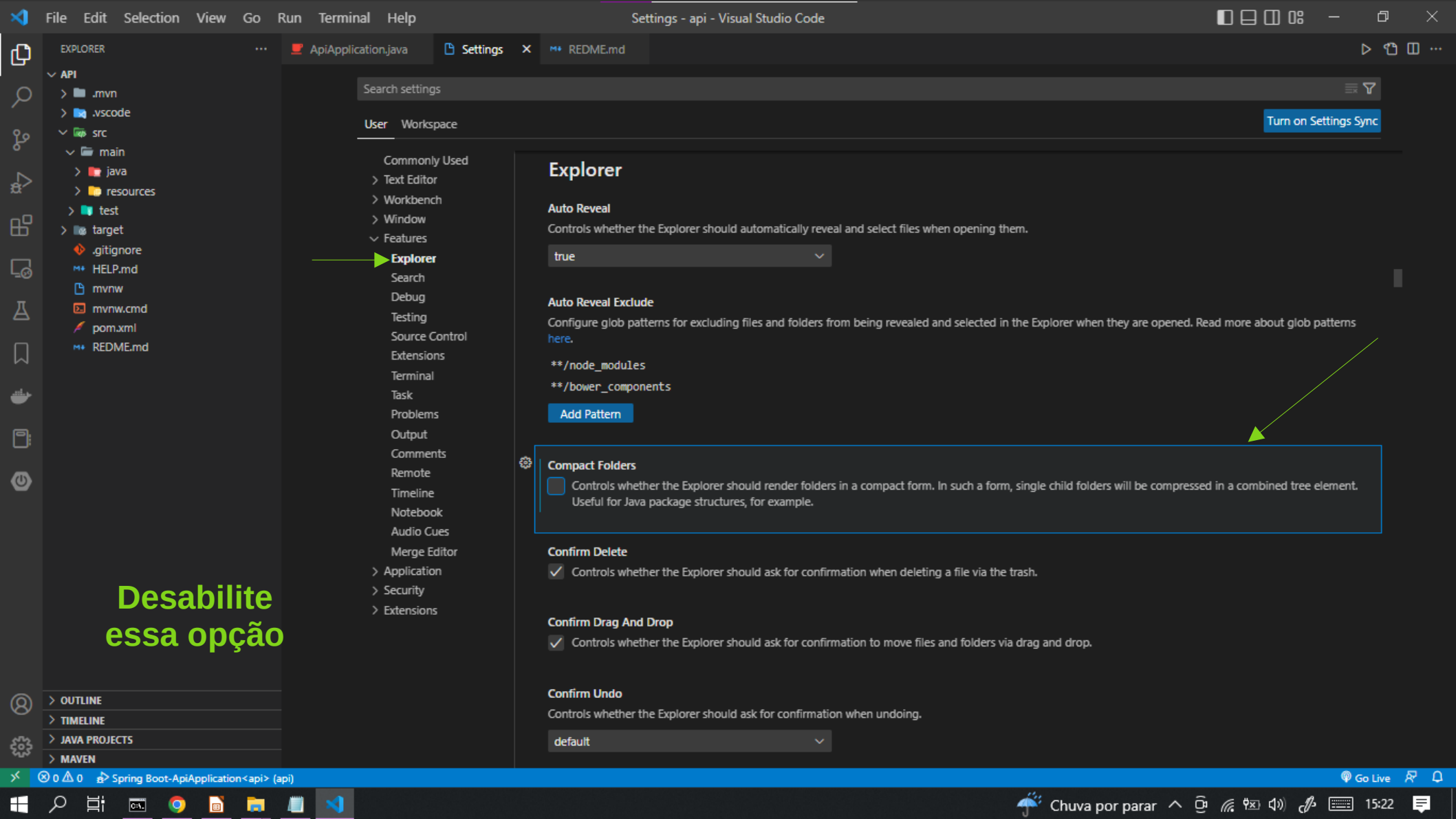


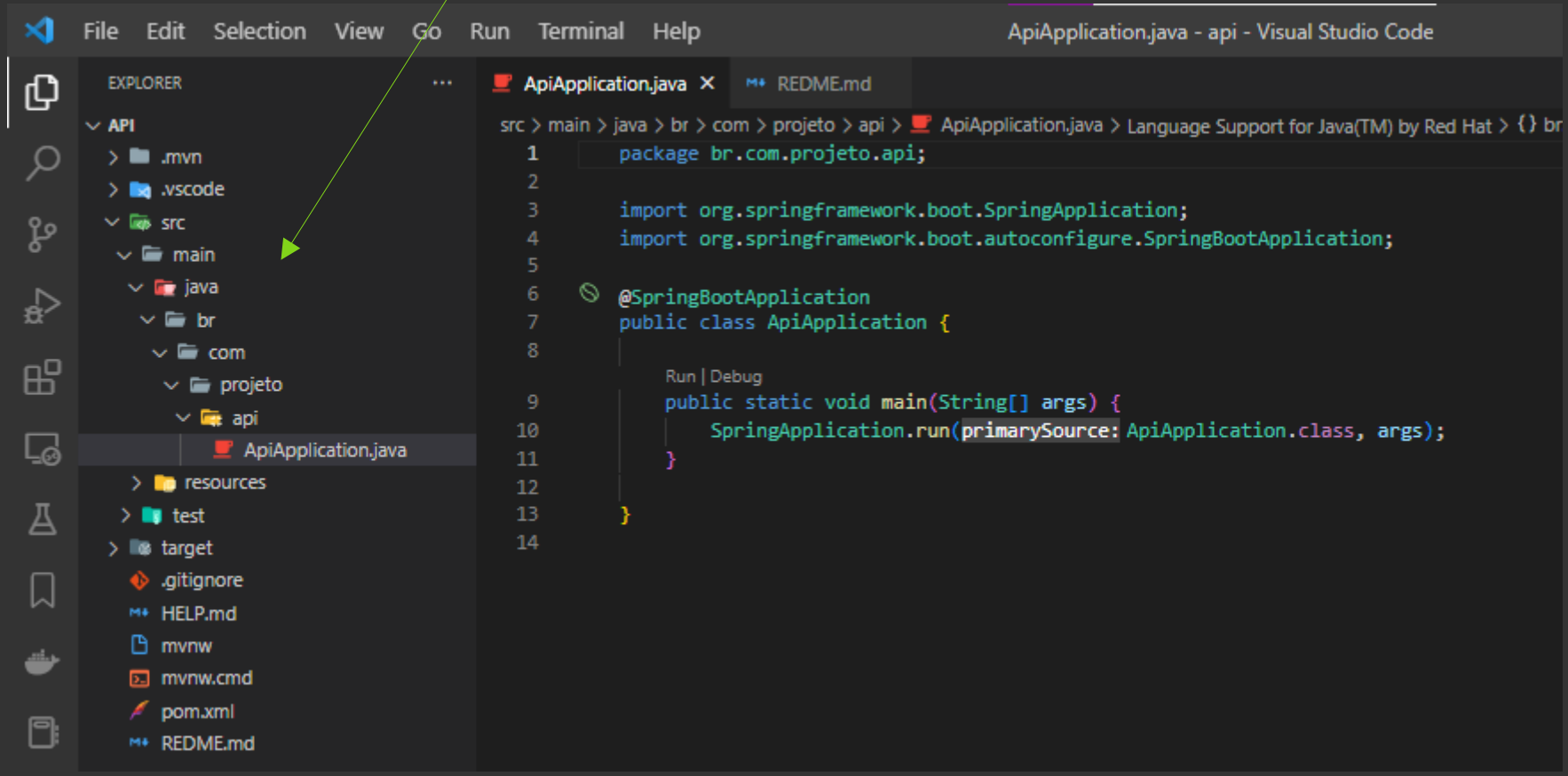
ERRO BOM SIGNIFICA QUE ESTA RODANDO

IMPLEMENTANDO O CONTROLLER PARA CORRIGIR O ERRO

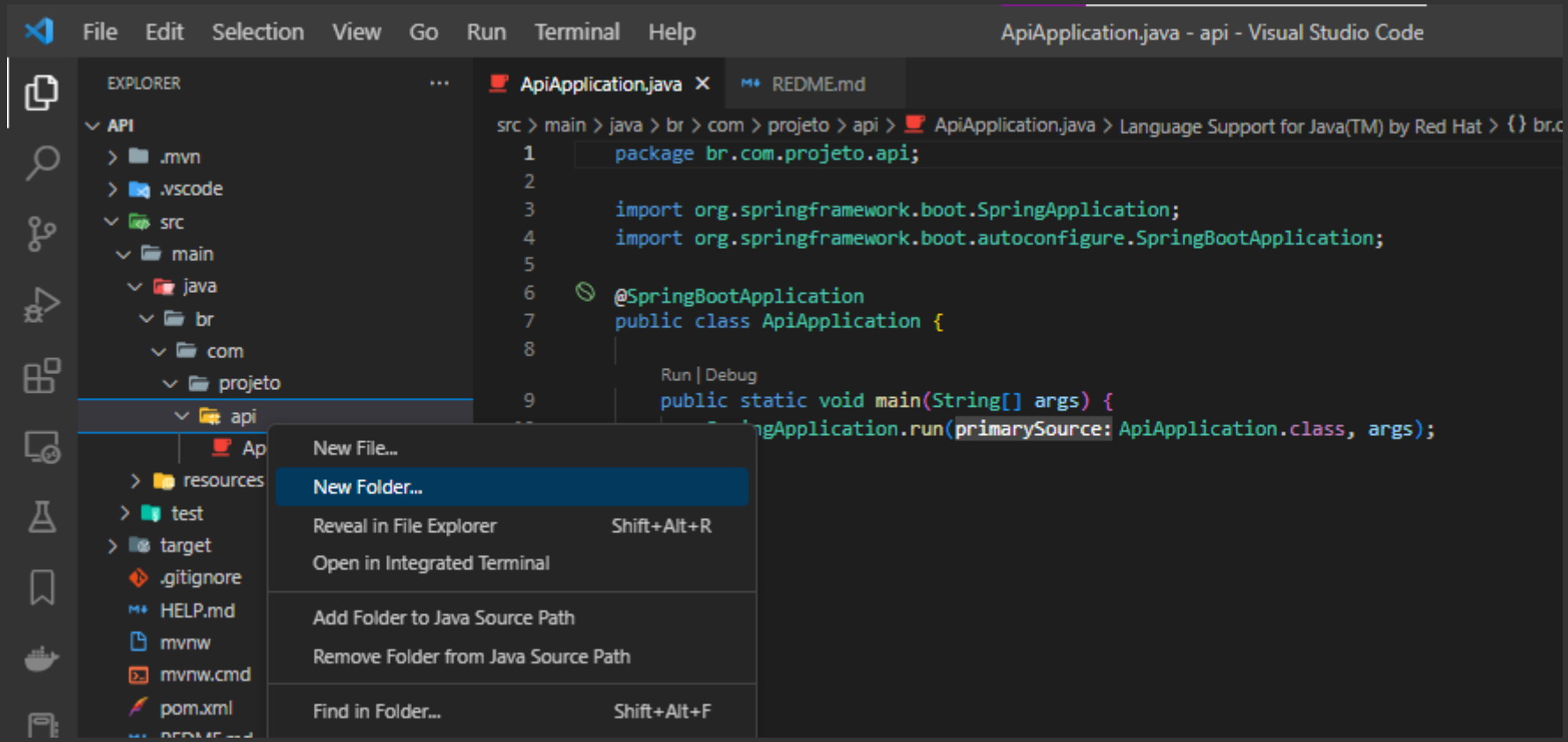

File
Edit
Selection
View
Go
Run
Terminal
Help
EXPLORER
API
.mvn
.vscode
Command Palette... Ctrl+Shift+P
Open View...
Appearance
REDME.md
projeto > api
om.projeto.a


ApiApplication.java - api - Visual Studio Code
>pref
Preferences: File Icon Theme
Preferences: Keymaps
Preferences: Language Extensions
Preferences: Open Accessibility Settings
Preferences: Open Default Keyboard Shortcuts (JSON)
Preferences: Open Default Settings (JSON)
Preferences: Open Keyboard Shortcuts
Ctrl + K Ctrl + S
Preferences: Open Keyboard Shortcuts (JSON)
Preferences: Open Settings (UI)
Preferences: Open User Settings
Preferences: Open User Settings (JSON)
Preferences: Open Workspace Settings
Preferences: Open Workspace Settings (JSON)
Preferences: Product Icon Theme
Preferences: Toggle between Light/Dark Themes

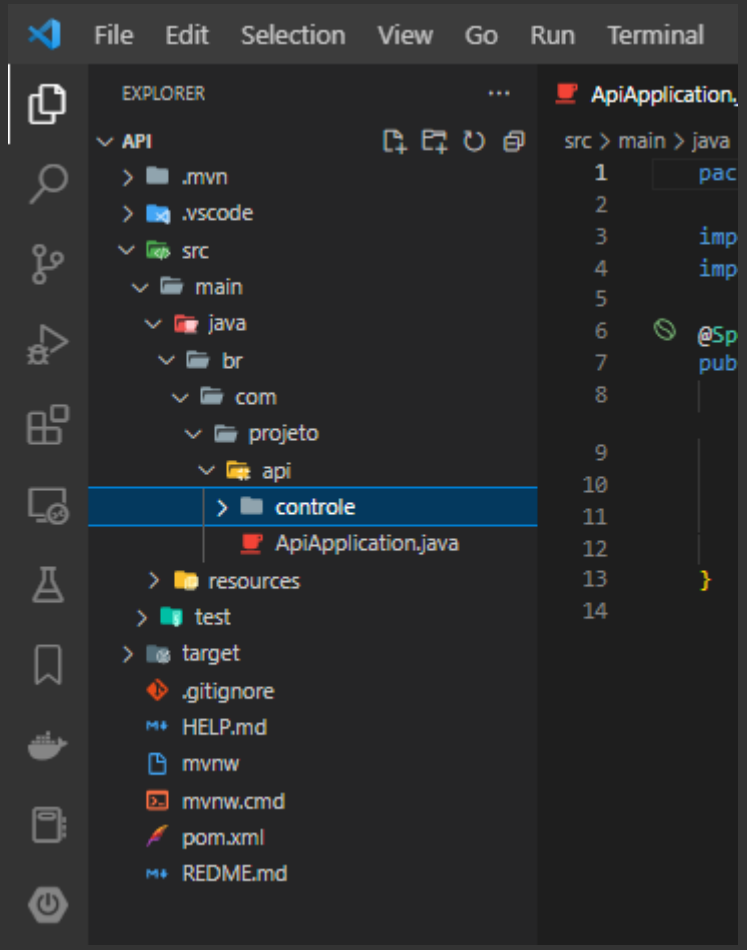

File Edit Selection View Go Run Terminal Help
Settings - api - Visual Studio Code
EXPLORER
API
.mvn
.vscode
src
main
java
resources
test
target
.gitignore
HELP.md
mvnw
mvnw.cmd
pom.xml
REDME.md
ApiApplication.java
Settings
REDME.md
Search settings
User
Workspace
Turn on Settings Sync
Commonly Used
Text 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
Explorer
Auto Reveal
Controls whether the Explorer should automatically reveal and select files when opening them.
true
Auto Reveal Exclude
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_modules
**/bower_components
Add Pattern
Compact Folders
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
Desabilite
essa opção
OUTLINE
TIMELINE
JAVA PROJECTS
MAVEN
Spring Boot-ApiApplication<api> (api)
Go Live
Chuva por parar
15:22



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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resources
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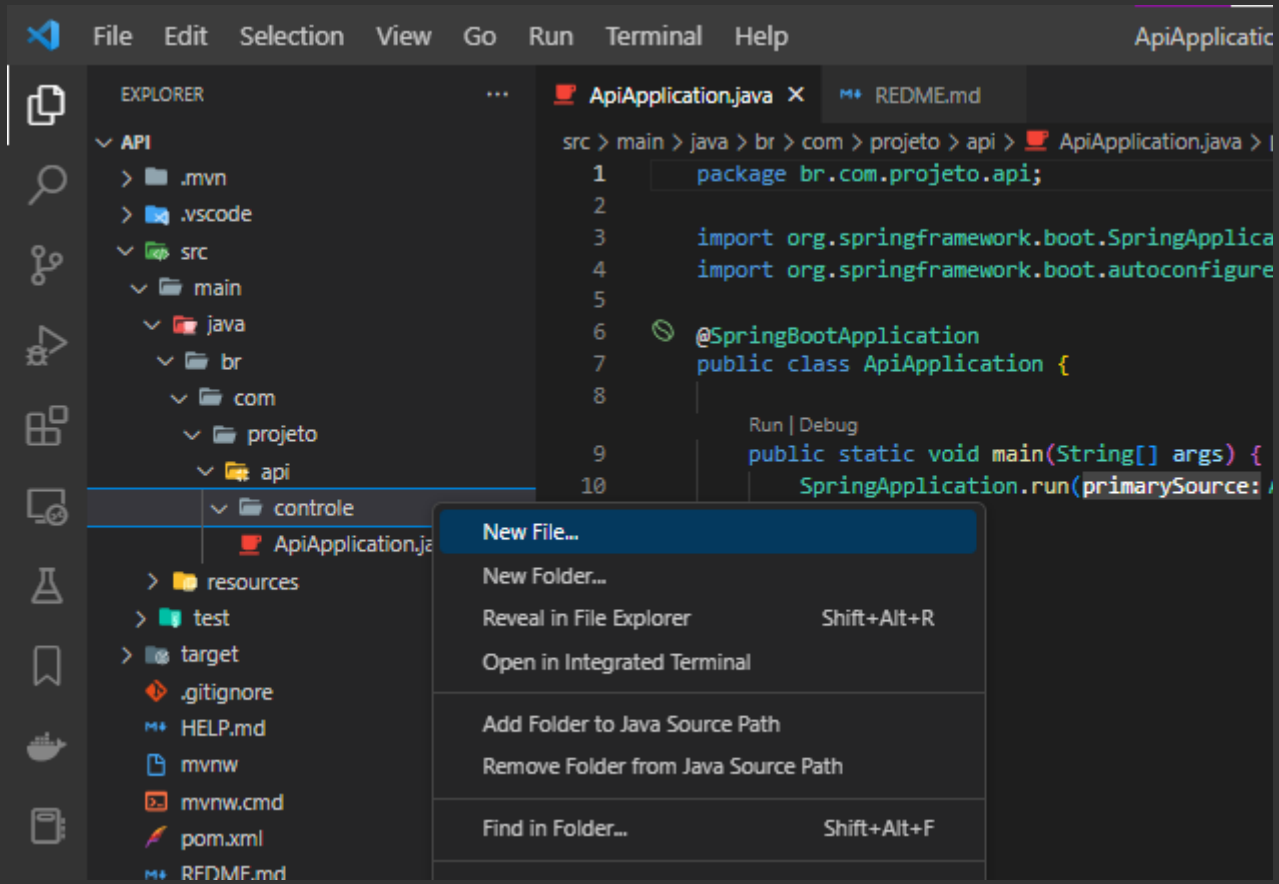
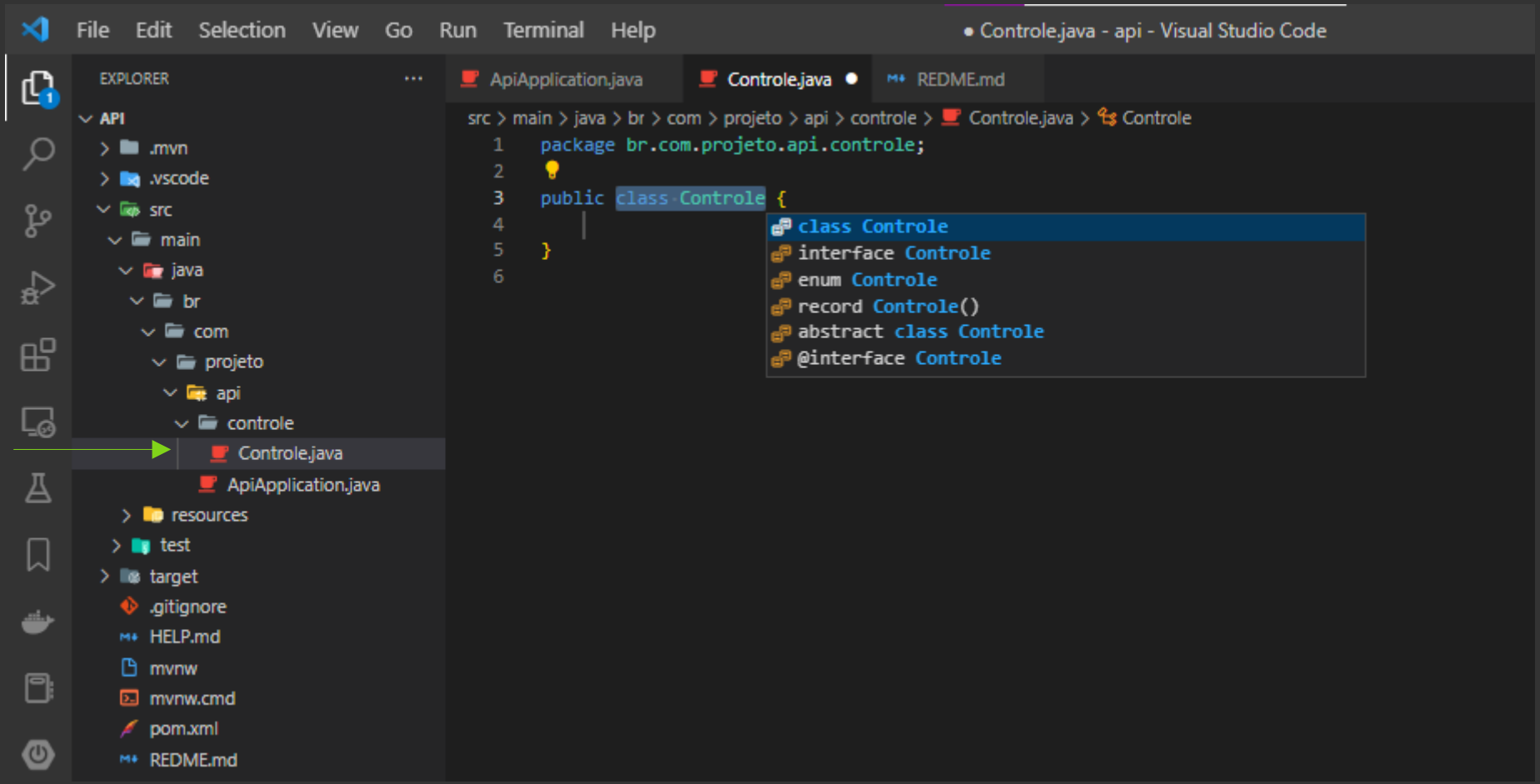
target
.gitignore
HELP.md
mvnw
mvnw.cmd
pom.xml
REDME.md
ApiApplication.
src > main > java
1 pac
2
3 imp
4 imp
5
6 @Sp
7 pub
8
9
10
11
12
13 }
14



Criando uma class controle dentro da pasta controle


File Edit Selection View Go Run Terminal Help
• Controle.java - api - Visual Studio Code
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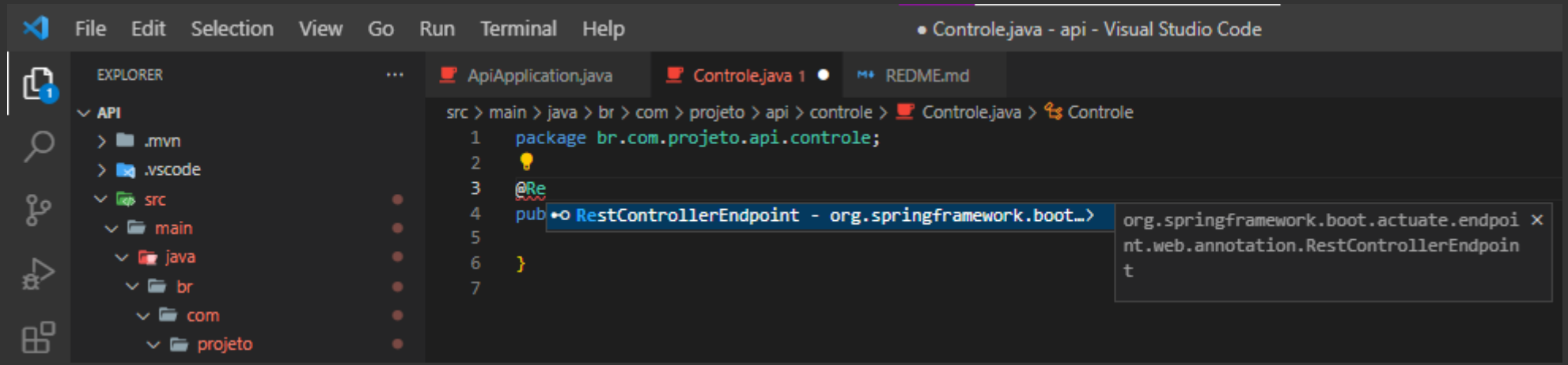
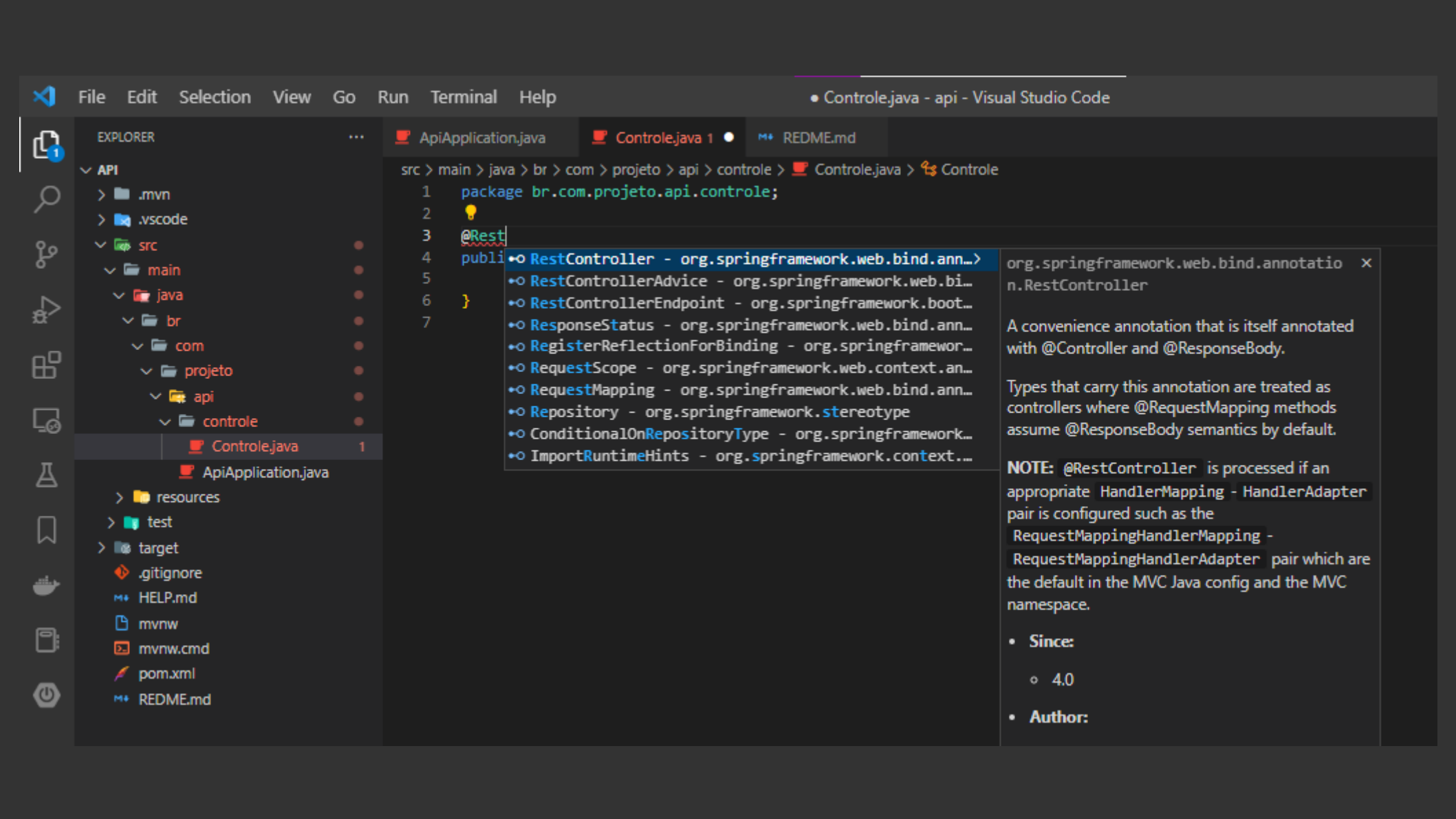
Controle.java
ApiApplication.java
resources
test
target
.gitignore
HELP.md
mvnw
mvnw.cmd
pom.xml
REDME.md
ApiApplication.java
Controle.java
REDME.md
src > main > java > br > com > projeto > api > controle > Controle.java > Controle
1 package br.com.projeto.api.controle;
2
3 public class Controle {
4
5 }
6
class Controle
interface Controle
enum Controle
record Controle()
abstract class Controle
@interface Controle



Adicione a anotaion @RestController e seu import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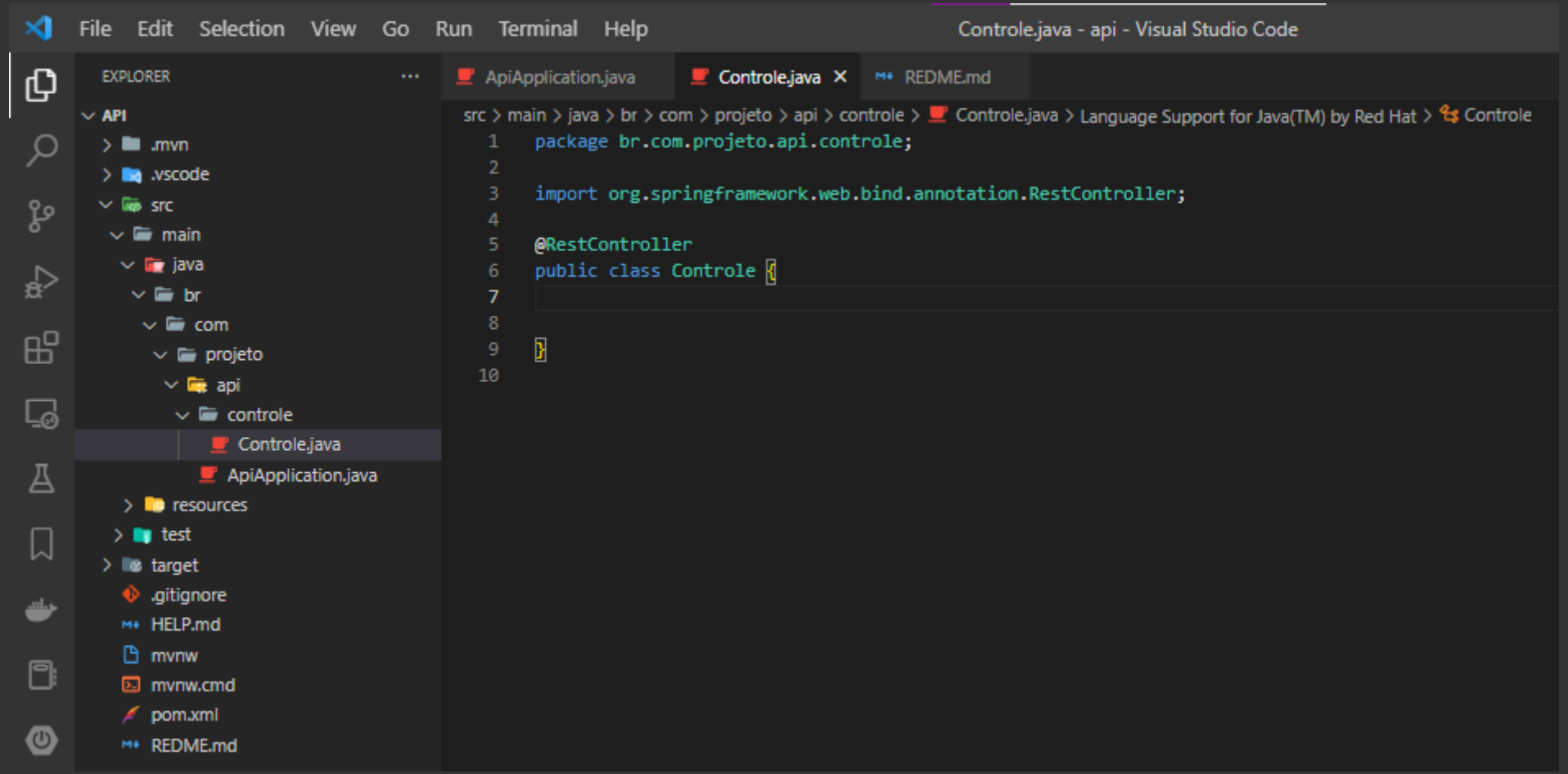
target
.gitignore
HELP.md
mvnw
mvnw.cmd
pom.xml
REDME.md
ApiApplication.java
Controle.java 1
REDME.md
src > main > java > br > com > projeto > api > controle > Controle.java > Controle
1 package br.com.projeto.api.controle;
2
3 @Rest
4 publi
5
6 }
7
RestController - org.springframework.web.bind.ann…
RestControllerAdvice - org.springframework.web.bi…
RestControllerEndpoint - org.springframework.boot…
ResponseStatus - org.springframework.web.bind.ann…
RegisterReflectionForBinding - org.springframewor…
RequestScope - org.springframework.web.context.an…
RequestMapping - org.springframework.web.bind.ann…
Repository - org.springframework.stereotype
ConditionalOnRepositoryType - org.springframework…
ImportRuntimeHints - org.springframework.context.…
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: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Controle.java - api - Visual Studio Code
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ApiApplication.java
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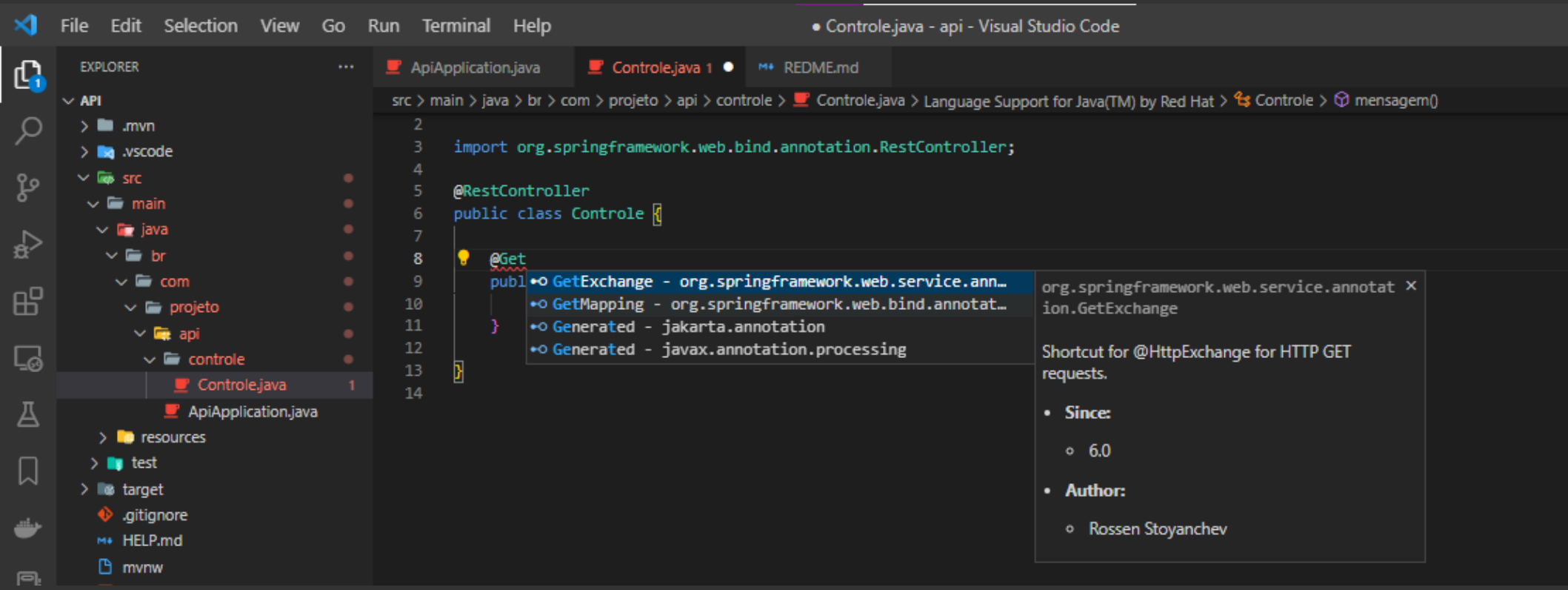
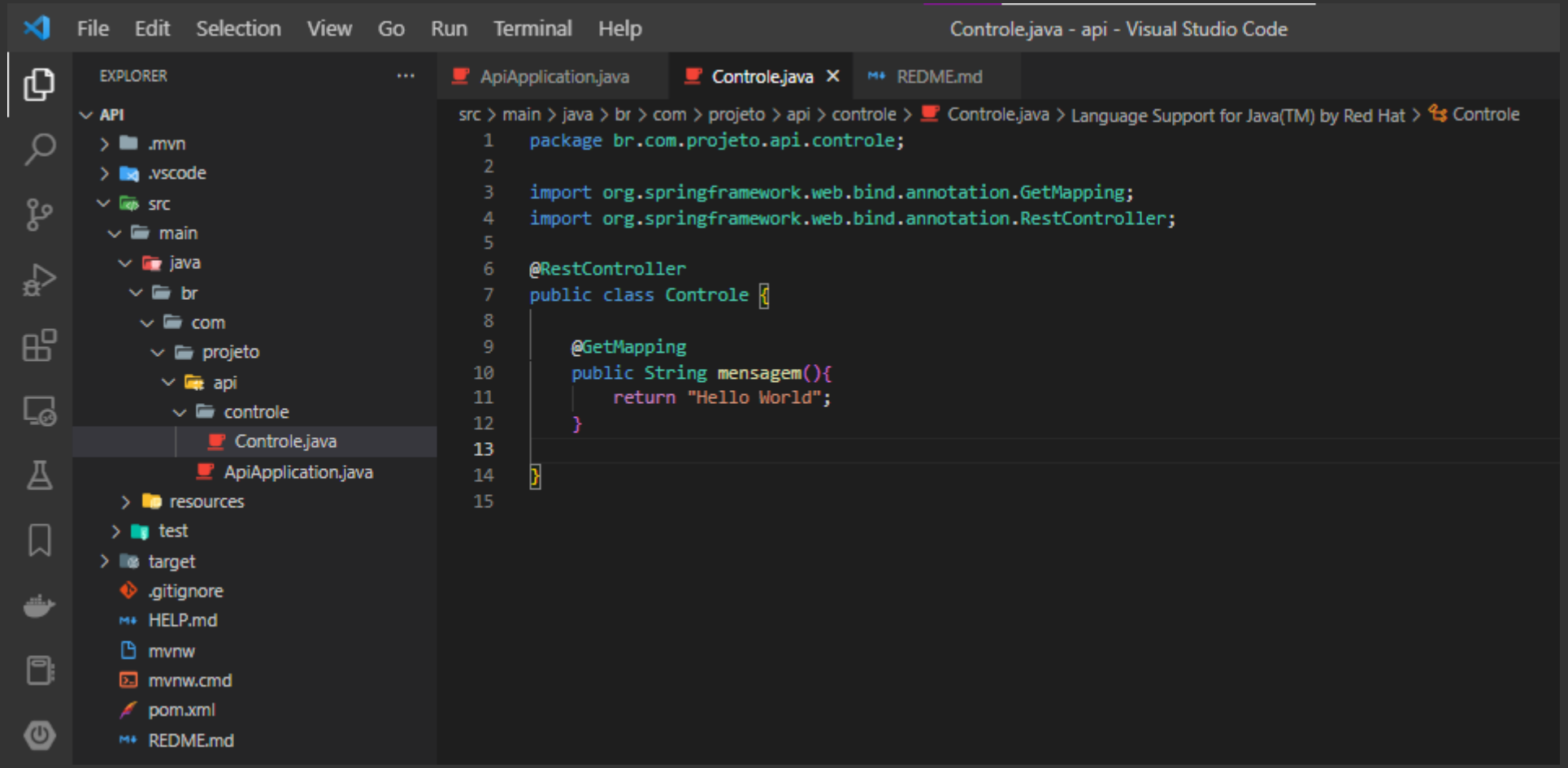
HELP.md
mvnw
mvnw.cmd
pom.xml
REDME.md
ApiApplication.java
Controle.java
REDME.md
src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Java(TM) by Red Hat > Controle
1 package br.com.projeto.api.controle;
2
3 import org.springframework.web.bind.annotation.RestController;
4
5 @RestController
6 public class Controle {
7
8
9 }
10



Adicione a anotation @GetMapping e seu import


File Edit Selection View Go Run Terminal Help
Controle.java - api - Visual Studio Code
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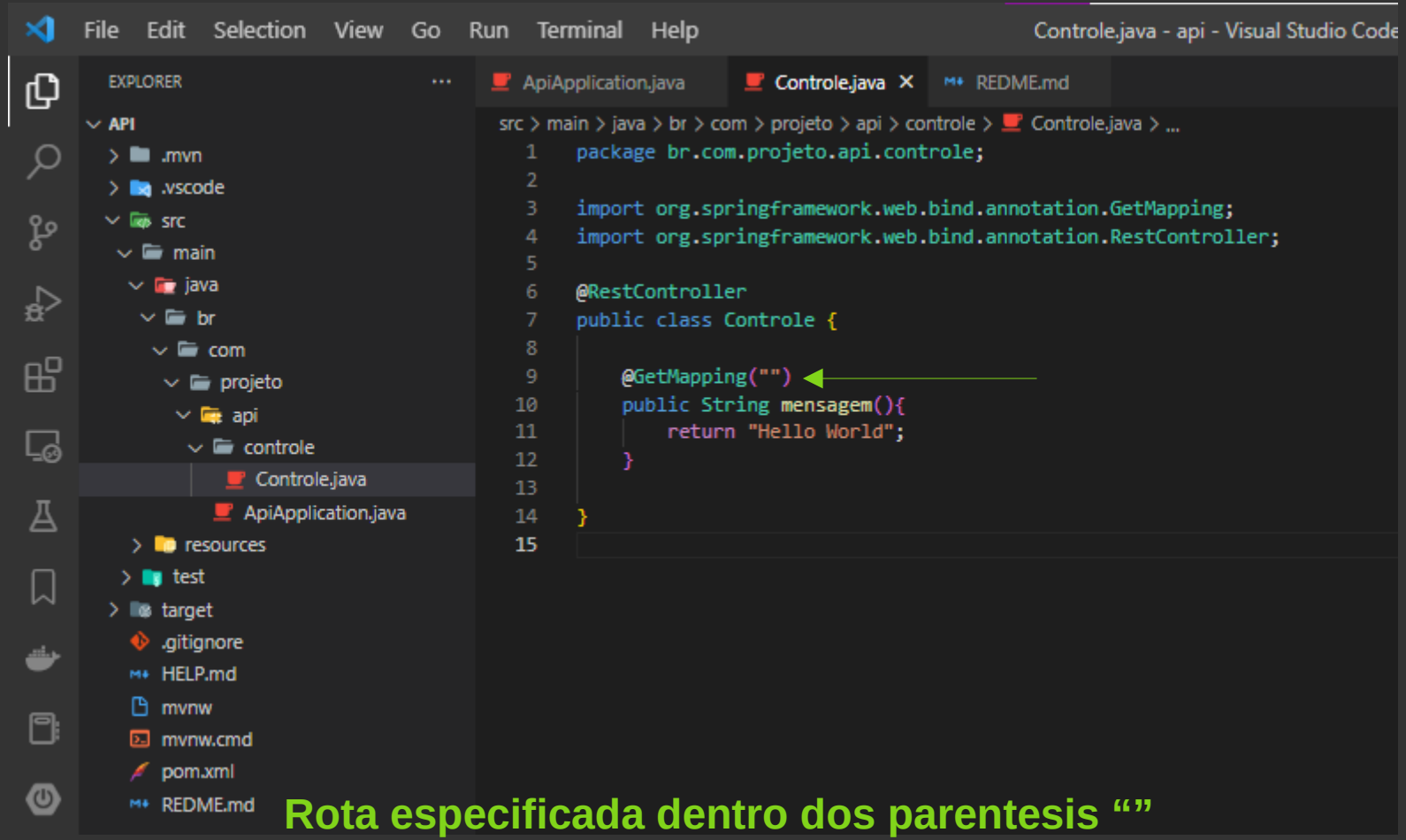
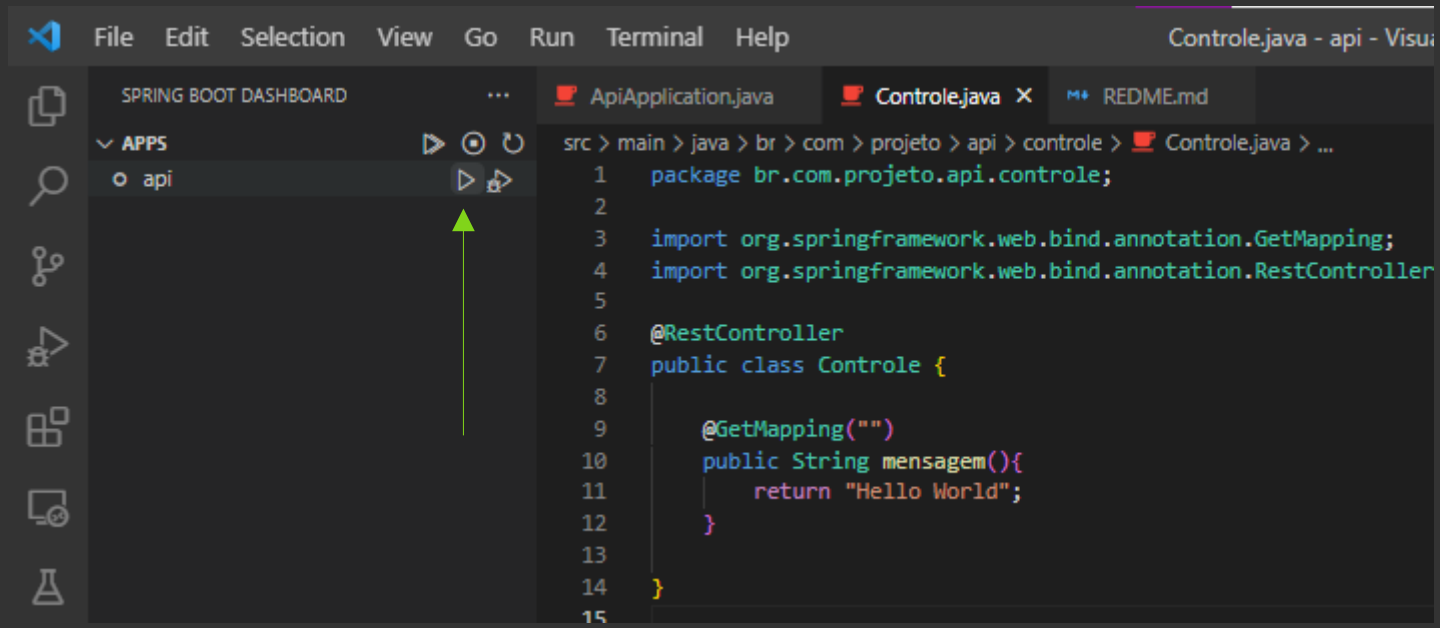
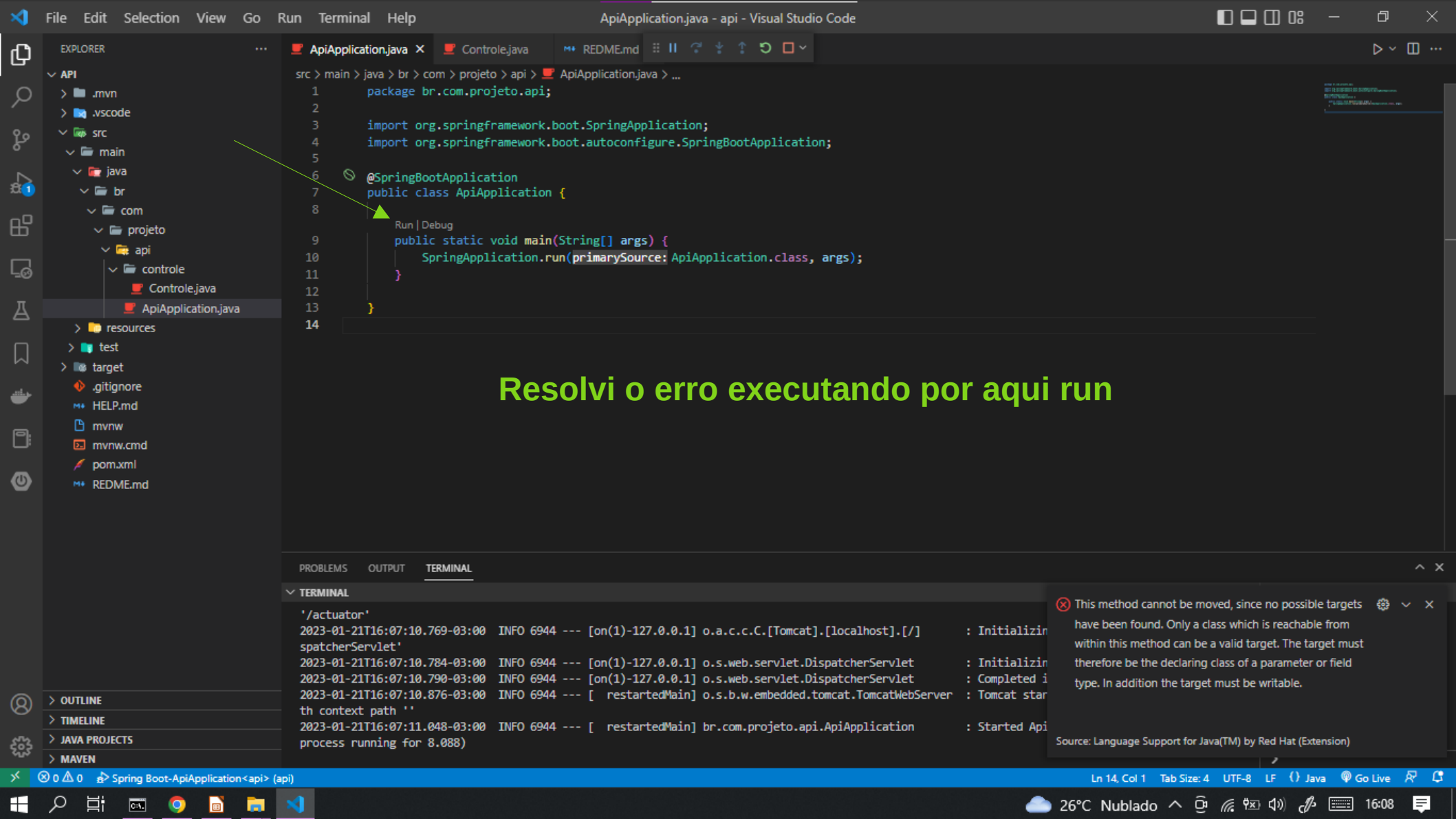
.gitignore
HELP.md
mvnw
mvnw.cmd
pom.xml
REDME.md
ApiApplication.java
Controle.java
REDME.md
src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Java(TM) by Red Hat > Controle
1 package br.com.projeto.api.controle;
2
3 import org.springframework.web.bind.annotation.GetMapping;
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


File Edit Selection View Go Run Terminal Help
Controle.java - api - Visu
SPRING BOOT DASHBOARD
APPS
api
ApiApplication.java
Controle.java
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 @GetMapping("")
10 public String mensagem(){
11 return "Hello World";
12 }
13
14 }
15


File Edit Selection View Go Run Terminal Help
ApiApplication.java - api - Visual Studio Code
EXPLORER
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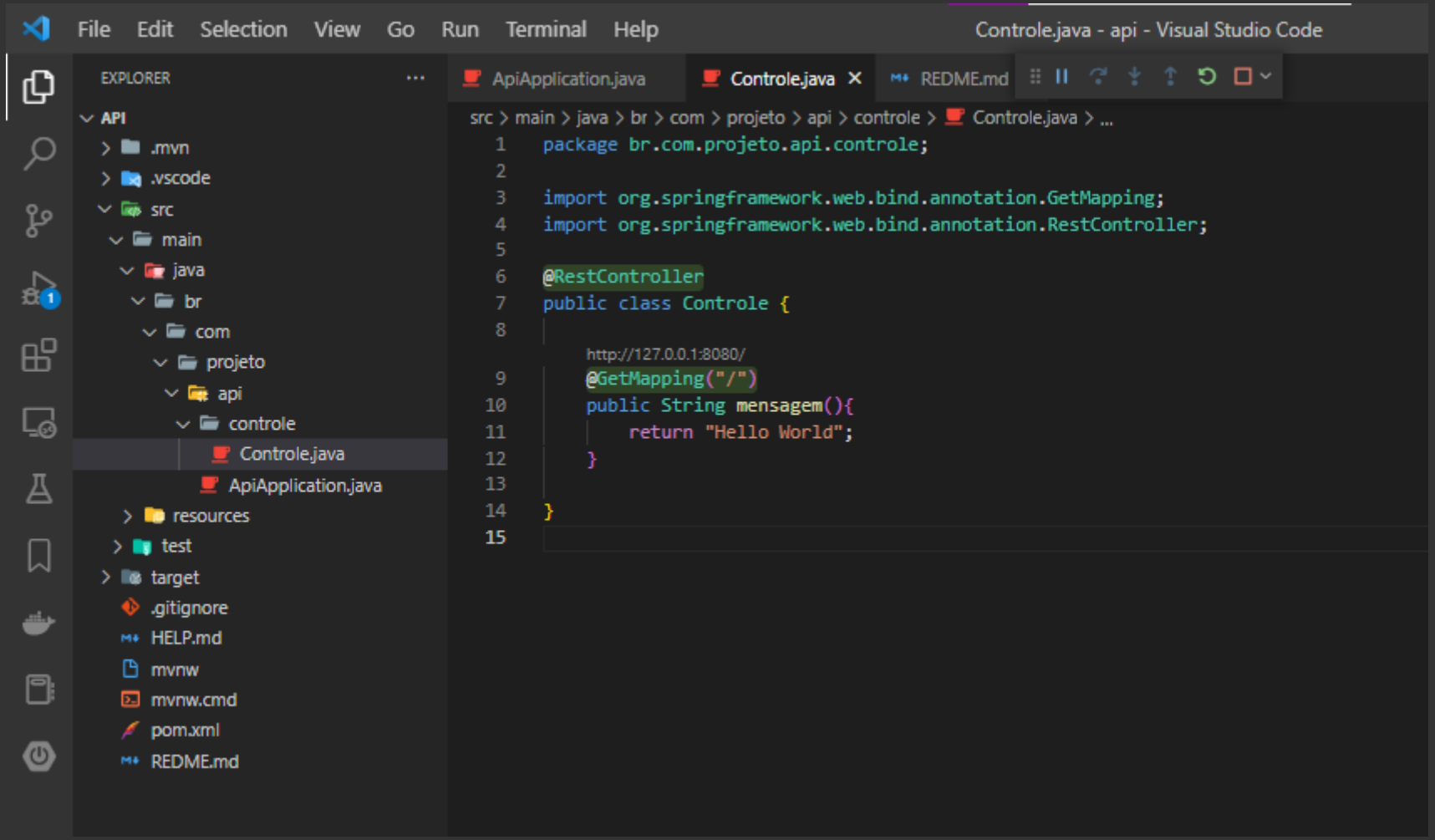
controle
Controle.java
ApiApplication.java
resources
test
target
.gitignore
HELP.md
mvnw
mvnw.cmd
pom.xml
REDME.md
ApiApplication.java
Controle.java
REDME.md
src > main > java > br > com > projeto > api > ApiApplication.java > ...
1 package br.com.projeto.api;
2
3 import org.springframework.boot.SpringApplication;
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].[/] : Initializin
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)
OUTLINE
TIMELINE
JAVA PROJECTS
MAVEN
Spring Boot-ApiApplication<api> (api)
Ln 14, Col 1 Tab Size: 4 UTF-8 LF Java Go Live
26°C Nublado
16:08


File Edit Selection View Go Run Terminal Help
Controle.java - api - Visual Studio Code
EXPLORER
API
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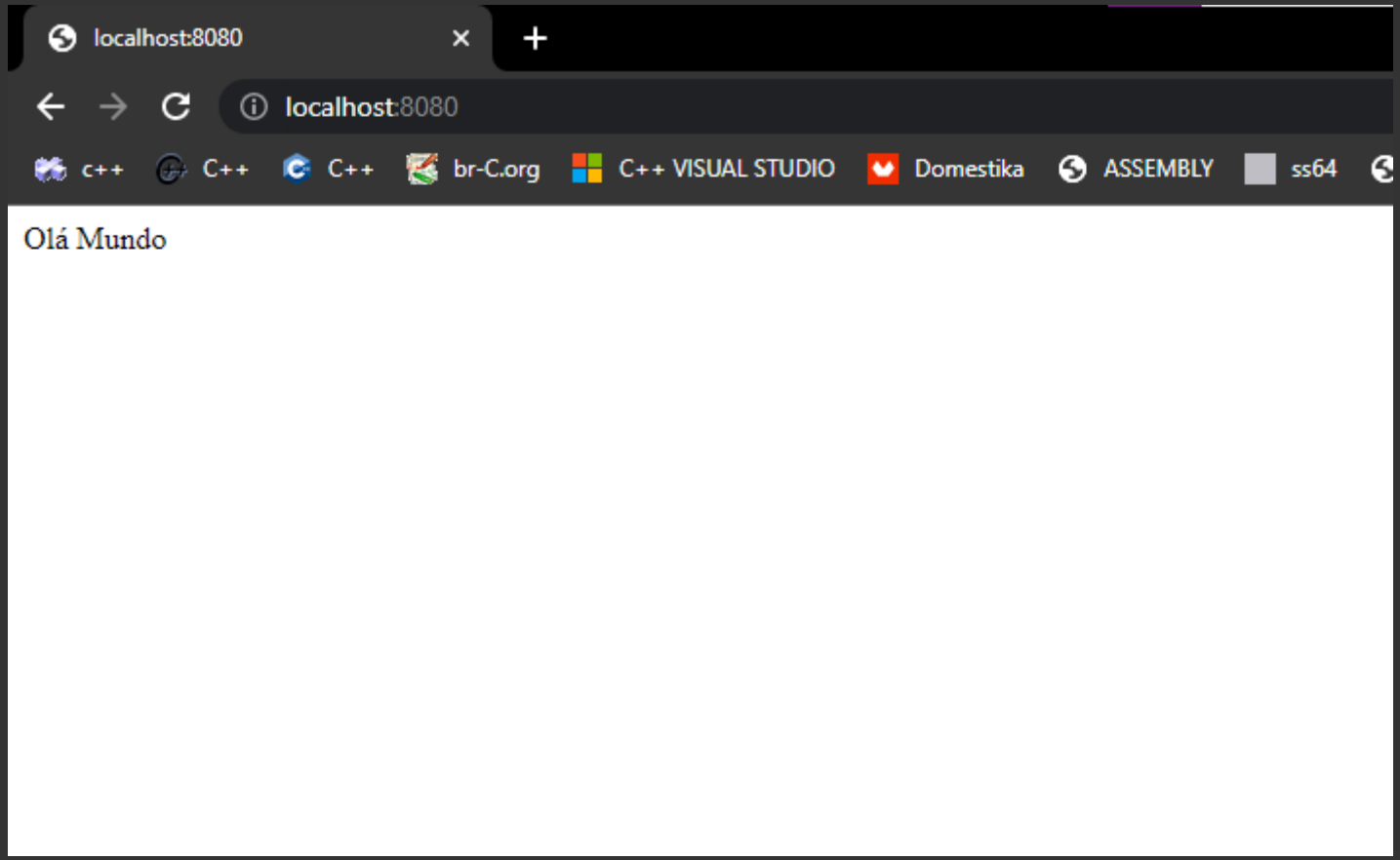
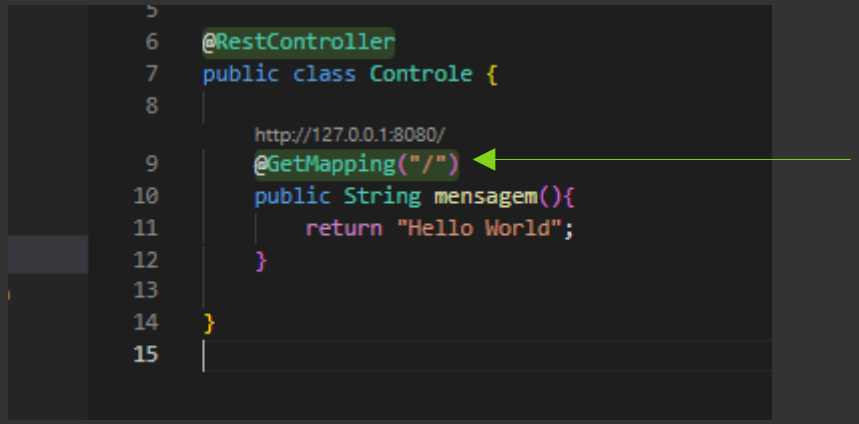
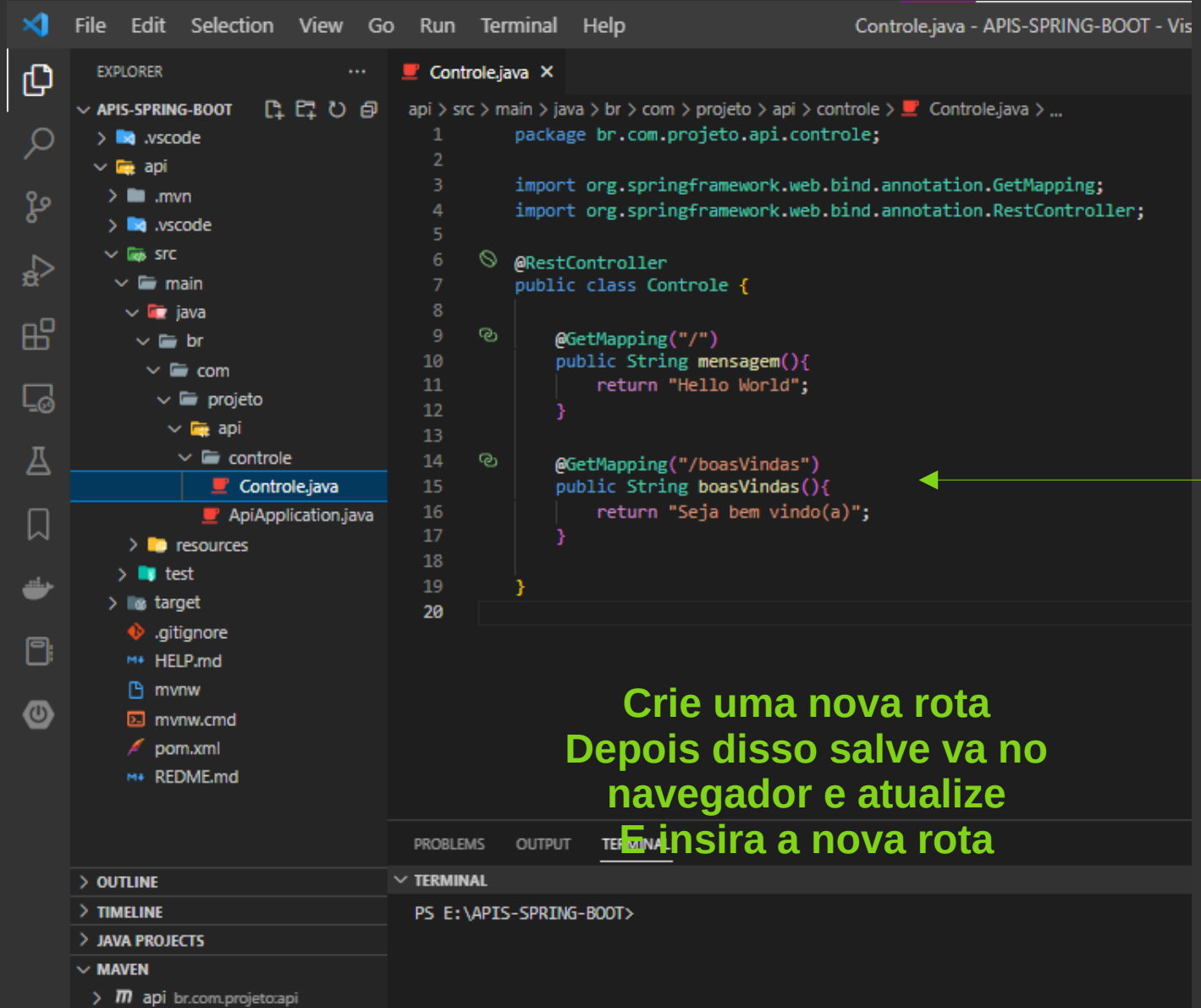
controle
Controle.java
ApiApplication.java
resources
test
target
.gitignore
HELP.md
mvnw
mvnw.cmd
pom.xml
REDME.md
ApiApplication.java
Controle.java
REDME.md
src > main > java > br > com > projeto > api > controle > Controle.java > ...
1 package br.com.projeto.api.controle;
2
3 import org.springframework.web.bind.annotation.GetMapping;
4 import org.springframework.web.bind.annotation.RestController;
5
6 @RestController
7 public class Controle {
8
http://127.0.0.1:8080/
9 @GetMapping("/")
10 public String mensagem(){
11 return "Hello World";
12 }
13
14 }
15


localhost:8080
localhost:8080
c++
C++
C++
br-C.org
C++ VISUAL STUDIO
Domestika
ASSEMBLY
ss64
Olá Mundo



Resolvi adicionando o / na url

#6
@PathVariable


File Edit Selection View Go Run Terminal Help
Controle.java - APIS-SPRING-BOOT - Vis
EXPLORER
APIS-SPRING-BOOT
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controle
Controle.java
ApiApplication.java
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test
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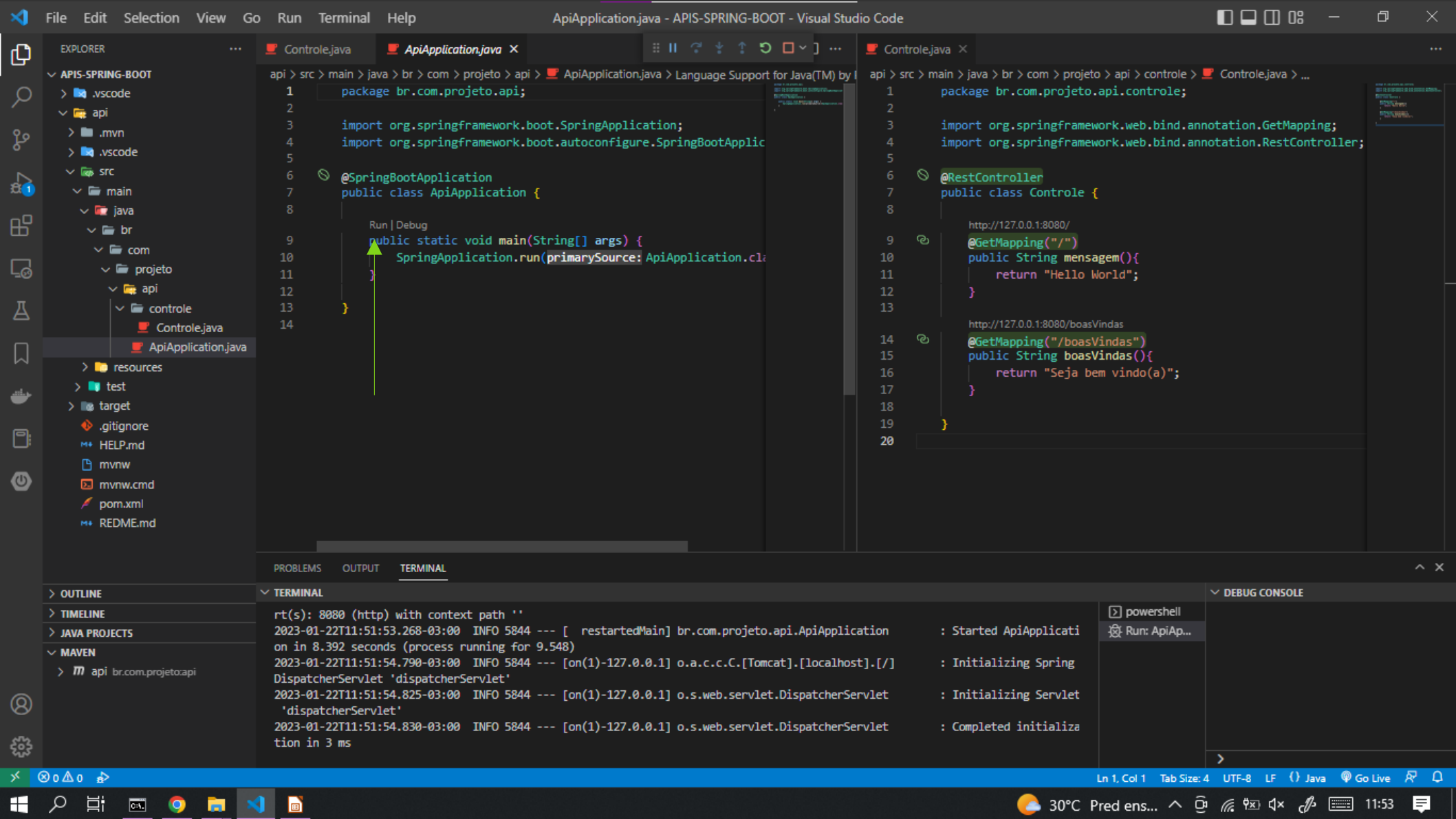
.gitignore
HELP.md
mvnw
mvnw.cmd
pom.xml
REDME.md
Controle.java
api > src > main > java > br > com > projeto > api > controle > Controle.java > ...
1 package br.com.projeto.api.controle;
2
3 import org.springframework.web.bind.annotation.GetMapping;
4 import org.springframework.web.bind.annotation.RestController;
5
6 @RestController
7 public class Controle {
8
9 @GetMapping("/")
10 public String mensagem(){
11 return "Hello World";
12 }
13
14 @GetMapping("/boasVindas")
15 public String boasVindas(){
16 return "Seja bem vindo(a)";
17 }
18
19 }
20
Crie uma nova rota
Depois disso salve va no
navegador e atualize
E insira a nova rota
PROBLEMS OUTPUT TERMINAL
TERMINAL
PS E:\APIS-SPRING-BOOT>
OUTLINE
TIMELINE
JAVA PROJECTS
MAVEN
api br.com.projeto:api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ApiApplication.java - APIS-SPRING-BOOT - Visual Studio Code
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ApiApplication.java
resources
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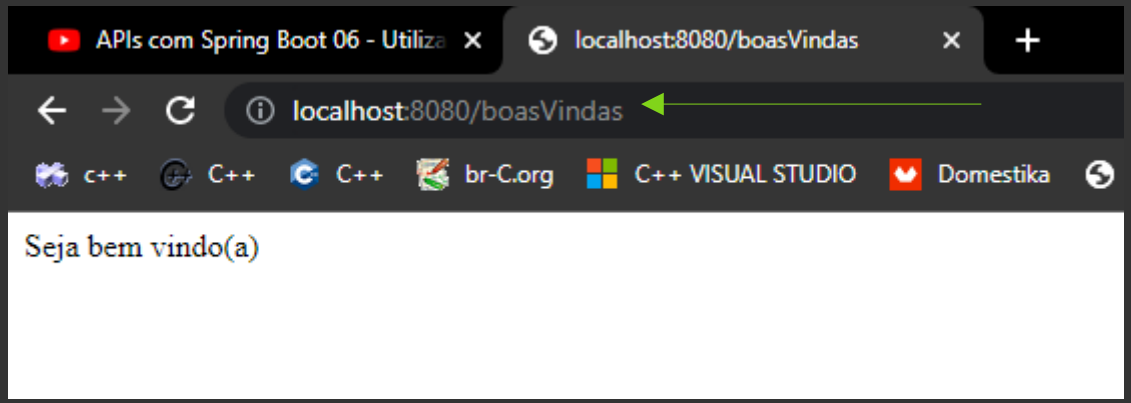
.gitignore
HELP.md
mvnw
mvnw.cmd
pom.xml
REDME.md
Controle.java
ApiApplication.java
api > src > main > java > br > com > projeto > api > ApiApplication.java > Language Support for Java(TM) by
1 package br.com.projeto.api;
3 import org.springframework.boot.SpringApplication;
4 import org.springframework.boot.autoconfigure.SpringBootApplic
6 @SpringBootApplication
7 public class ApiApplication {
Run | Debug
9 public static void main(String[] args) {
10 SpringApplication.run(primarySource: ApiApplication.cl
11 }
13 }
Controle.java
api > src > main > java > br > com > projeto > api > controle > Controle.java > ...
1 package br.com.projeto.api.controle;
3 import org.springframework.web.bind.annotation.GetMapping;
4 import org.springframework.web.bind.annotation.RestController;
6 @RestController
7 public class Controle {
http://127.0.0.1:8080/
9 @GetMapping("/")
10 public String mensagem(){
11 return "Hello World";
12 }
13
http://127.0.0.1:8080/boasVindas
14 @GetMapping("/boasVindas")
15 public String boasVindas(){
16 return "Seja bem vindo(a)";
17 }
19 }
20
PROBLEMS OUTPUT TERMINAL
TERMINAL
rt(s): 8080 (http) with context path ''
2023-01-22T11:51:53.268-03:00 INFO 5844 --- [restartedMain] br.com.projeto.api.ApiApplication : Started ApiApplicati
on in 8.392 seconds (process running for 9.548)
2023-01-22T11:51:54.790-03:00 INFO 5844 --- [on(1)-127.0.0.1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring
DispatcherServlet 'dispatcherServlet'
2023-01-22T11:51:54.825-03:00 INFO 5844 --- [on(1)-127.0.0.1] o.s.web.servlet.DispatcherServlet : Initializing Servlet
'dispatcherServlet'
2023-01-22T11:51:54.830-03:00 INFO 5844 --- [on(1)-127.0.0.1] o.s.web.servlet.DispatcherServlet : Completed initializa
tion in 3 ms
powershell
Run: ApiAp...
DEBUG CONSOLE
OUTLINE
TIMELINE
JAVA PROJECTS
MAVEN
api br.com.projeto:api
Ln 1, Col 1 Tab Size: 4 UTF-8 LF Java Go Live
30°C Pred ens...
11:53

rota


APIs com Spring Boot 06 - Utiliza
localhost:8080/boasVindas
localhost:8080/boasVindas
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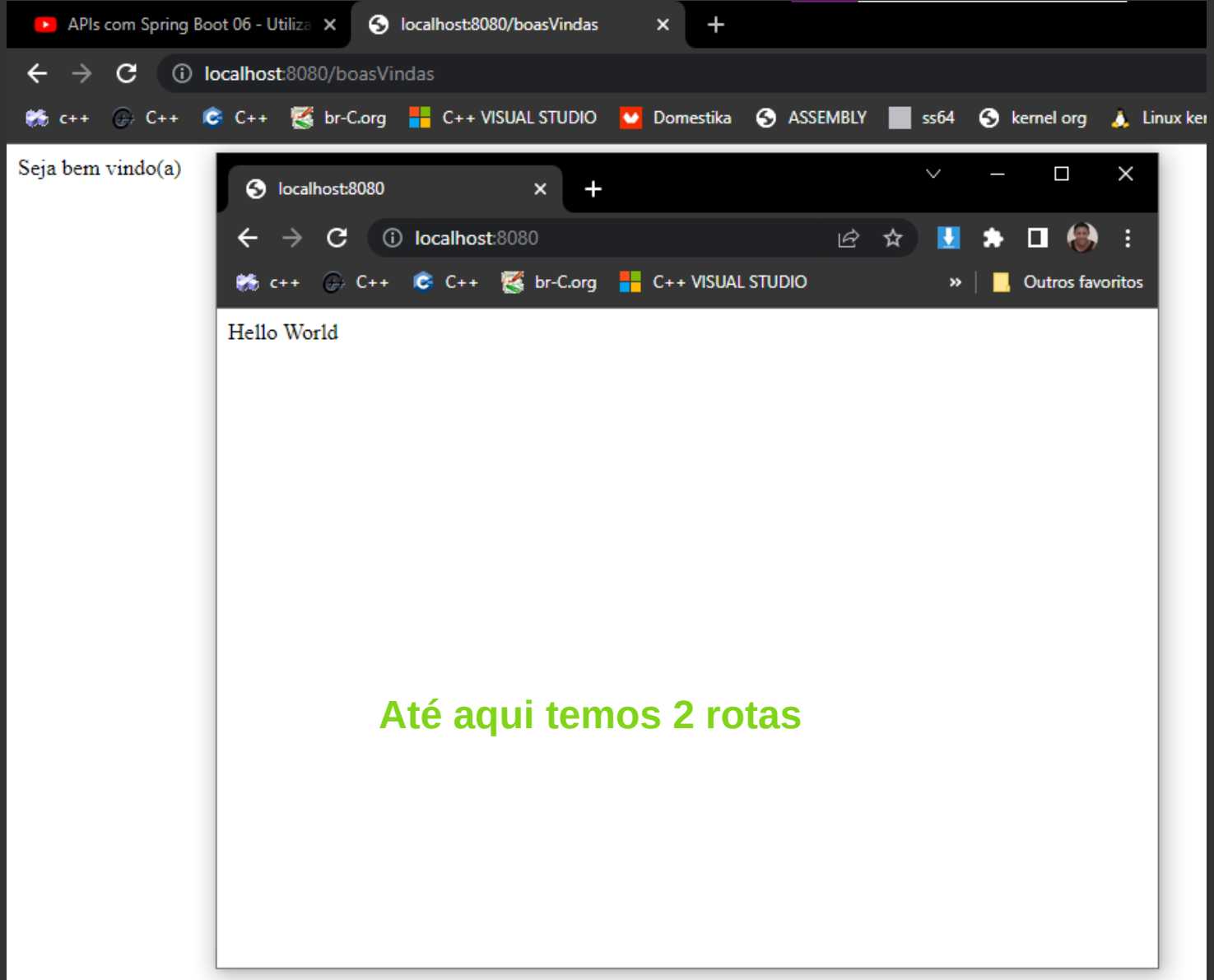
C++
br-C.org
C++ VISUAL STUDIO
Domestika
Seja bem vindo(a)


APIs com Spring Boot 06 - Utiliza
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localhost:8080/boasVindas
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br-C.org
C++ VISUAL STUDIO
Domestika
ASSEMBLY
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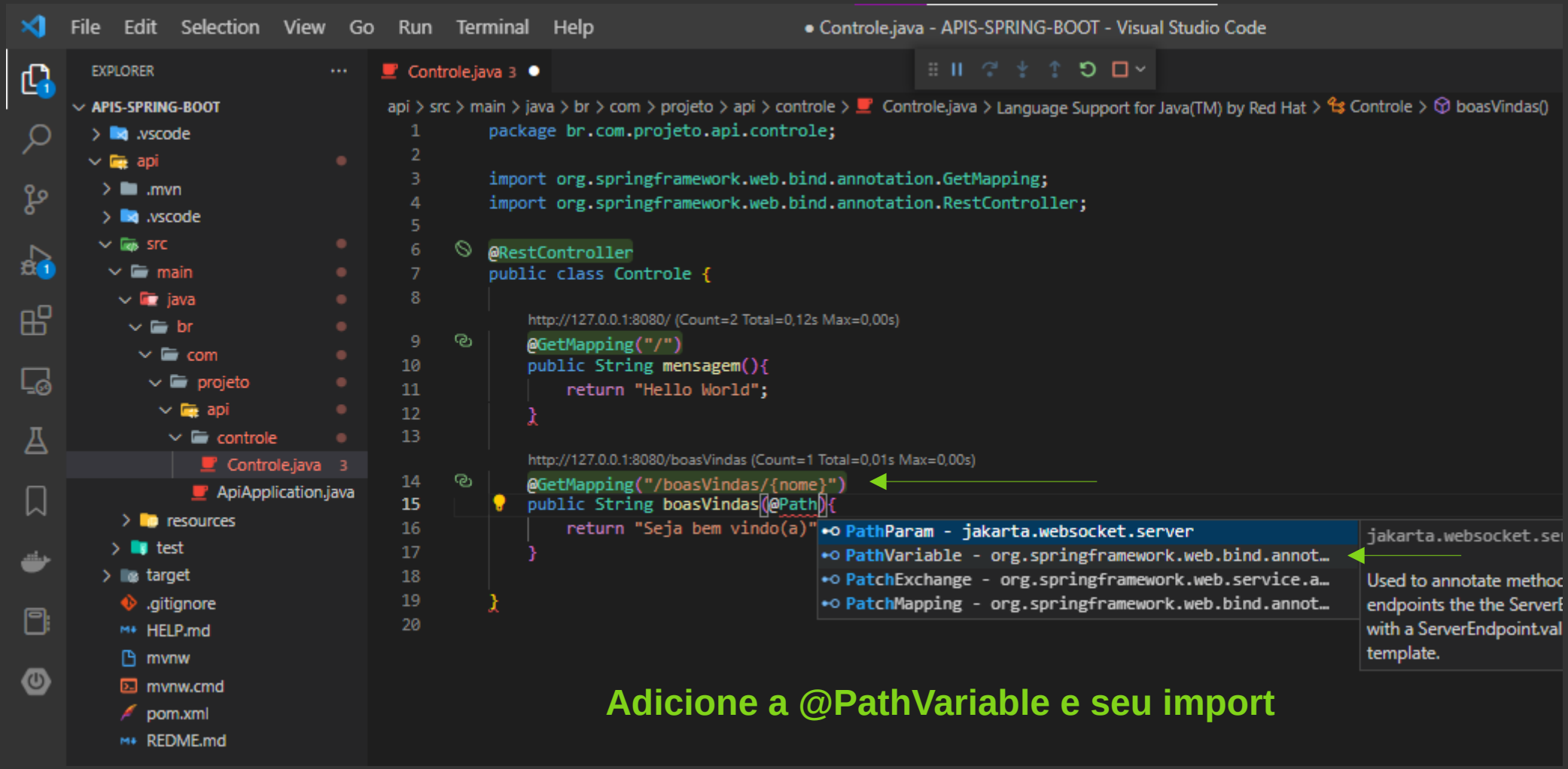
kernel org
Linux ker
Seja bem vindo(a)
localhost:8080
localhost:8080
c++
C++
C++
br-C.org
C++ VISUAL STUDIO
Outros favoritos
Hello World
Até aqui temos 2 rotas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• Controle.java - APIS-SPRING-BOOT - Visual Studio Code
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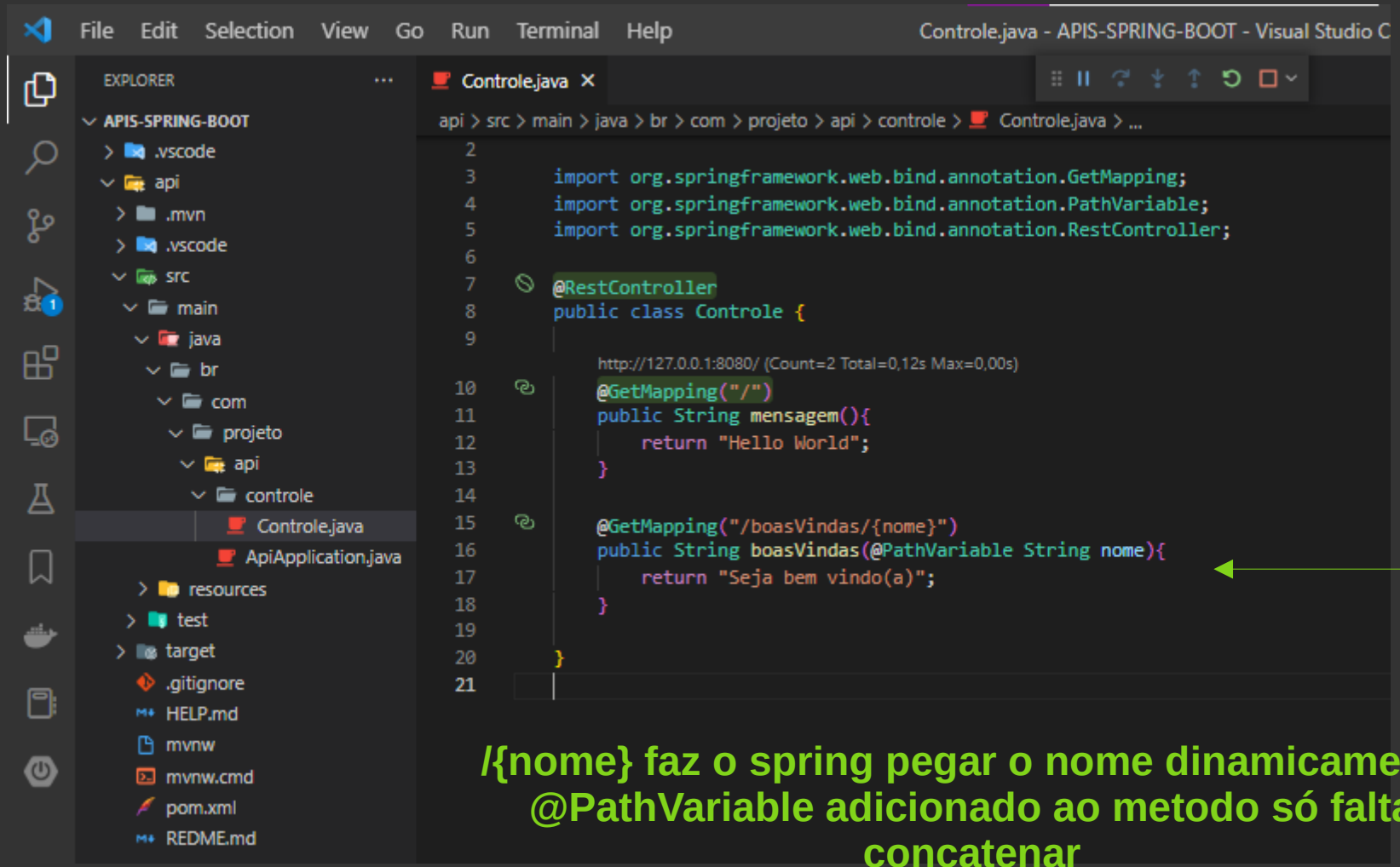
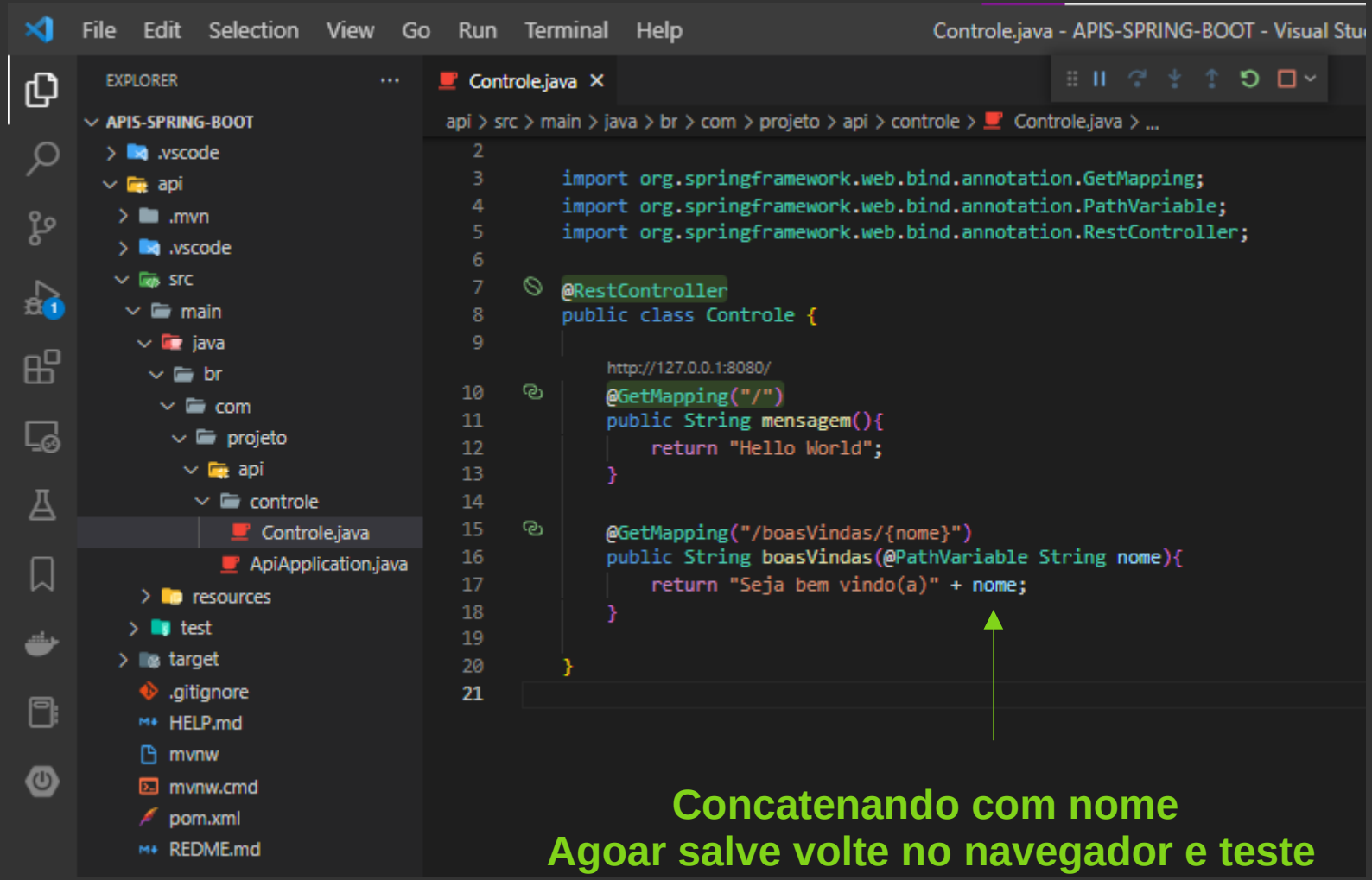
controle
Controle.java 3
ApiApplication.java
resources
test
target
.gitignore
HELP.md
mvnw
mvnw.cmd
pom.xml
REDME.md
Controle.java 3 •
api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Java(TM) by Red Hat > Controle > boasVindas()
1 package br.com.projeto.api.controle;
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
http://127.0.0.1:8080/ (Count=2 Total=0,12s Max=0,00s)
9 @GetMapping("/")
10 public String mensagem(){
11 return "Hello World";
12 }
13
http://127.0.0.1:8080/boasVindas (Count=1 Total=0,01s Max=0,00s)
14 @GetMapping("/boasVindas/{nome}")
15 public String boasVindas(@Path){
16 return "Seja bem vindo(a)"
17 }
18
19 }
20
PathParam - jakarta.websocket.server
PathVariable - org.springframework.web.bind.annot…
PatchExchange - org.springframework.web.service.a…
PatchMapping - org.springframework.web.bind.annot…
jakarta.websocket.se
Used to annotate methoc
endpoints the the ServerE
with a ServerEndpoint.val
template.
Adicione a @PathVariable e seu import



/{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 Stu
EXPLORER
APIS-SPRING-BOOT
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HELP.md
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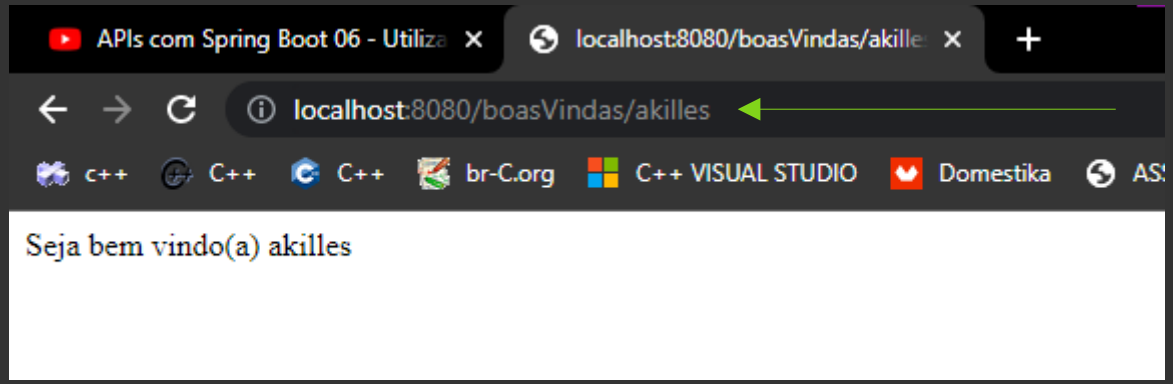
pom.xml
REDME.md
Controle.java
api > src > main > java > br > com > projeto > api > controle > Controle.java > ...
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.RestController;
@RestController
public class Controle {
http://127.0.0.1:8080/
@GetMapping("/")
public String mensagem(){
return "Hello World";
}
@GetMapping("/boasVindas/{nome}")
public String boasVindas(@PathVariable String nome){
return "Seja bem vindo(a)" + nome;
}
}
Concatenando com nome
Agoar salve volte no navegador e teste


APIs com Spring Boot 06 - Utiliza
localhost:8080/boasVindas/akille
localhost:8080/boasVindas/akilles
c++
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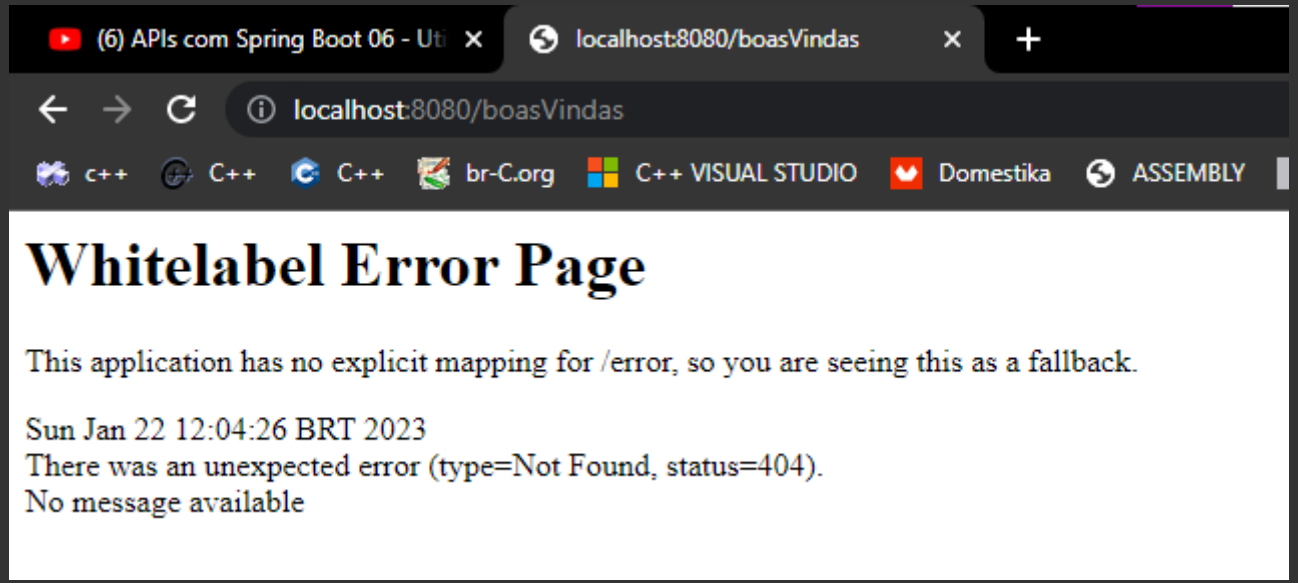
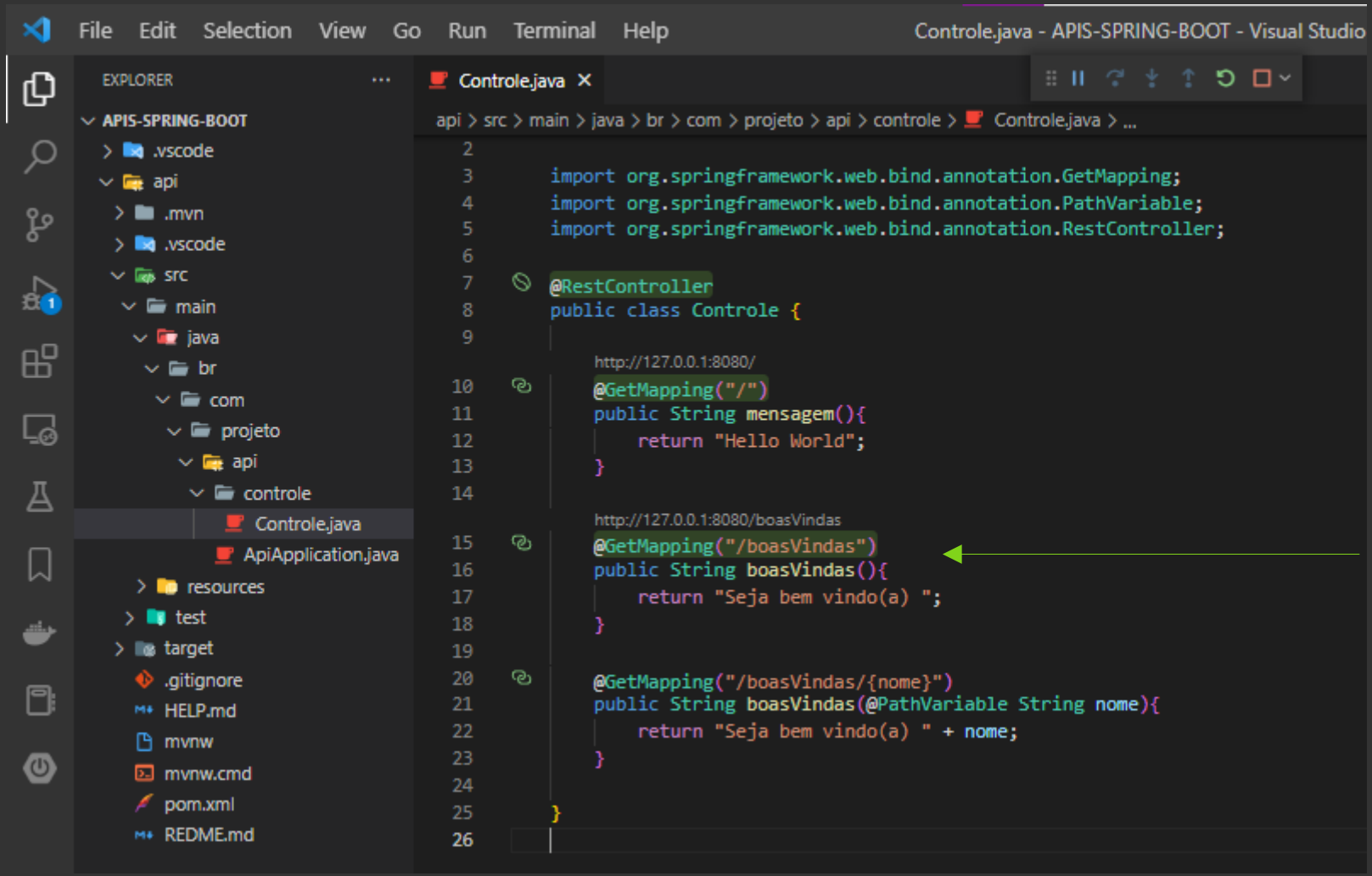
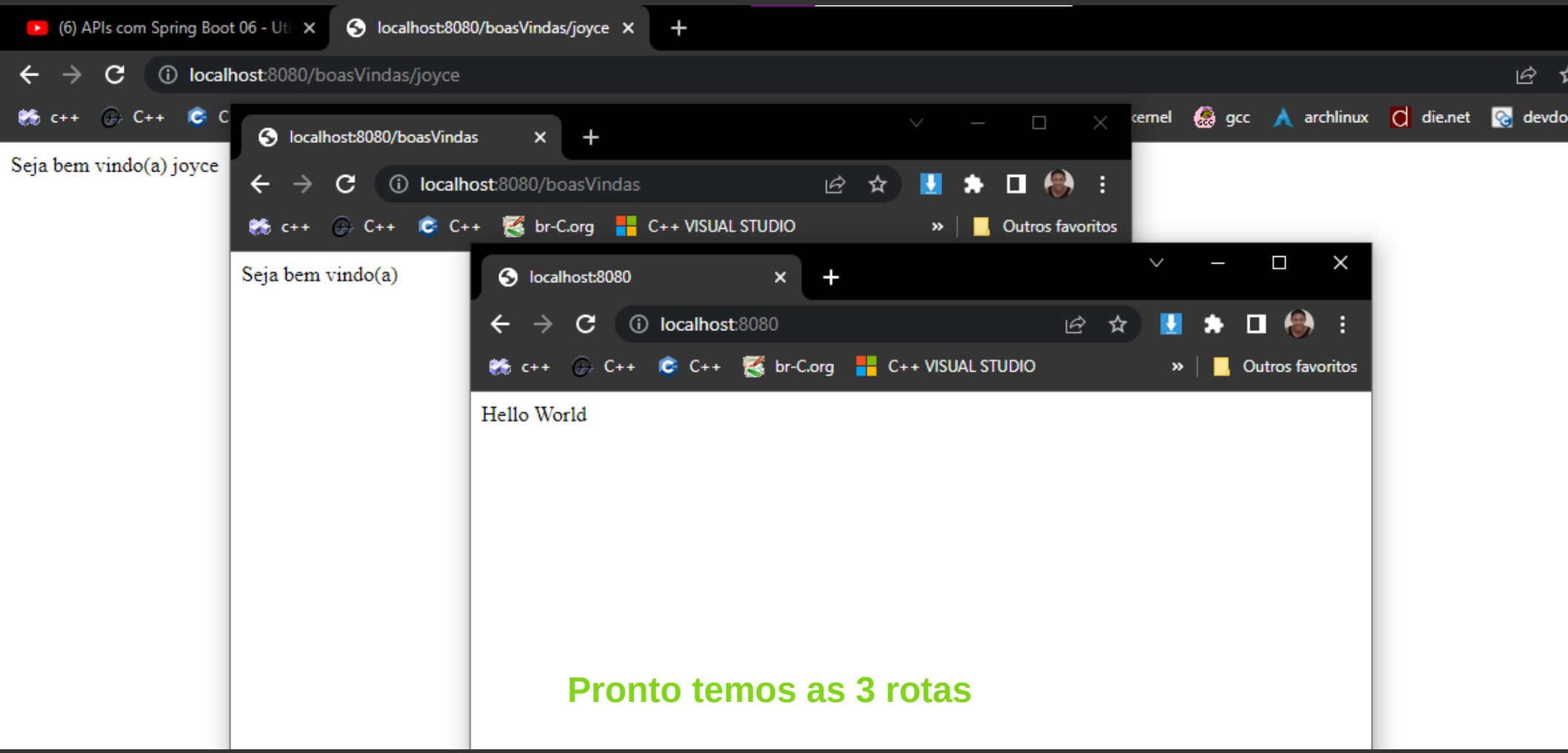
C++
br-C.org
C++ VISUAL STUDIO
Domestika
Seja bem vindo(a) akilles



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

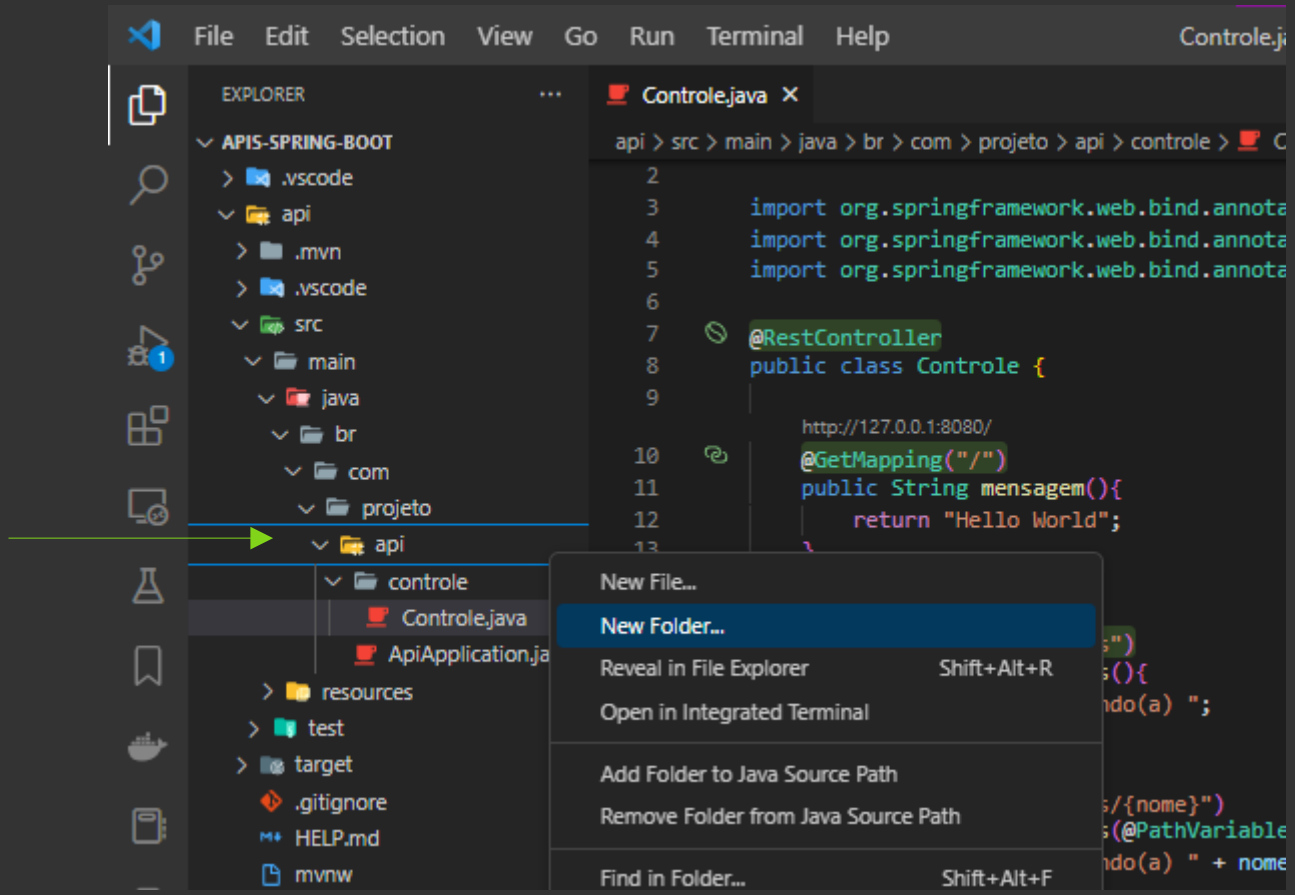


Podemos resolver o erro adicionando a rota que falta

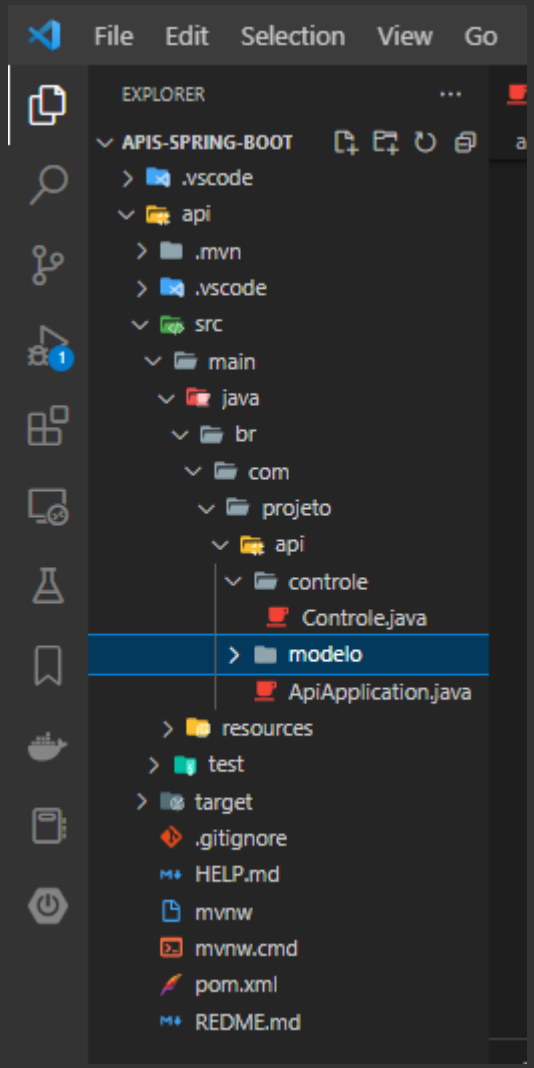

(6) APIs com Spring Boot 06 - Ut
localhost:8080/boasVindas/joyce
localhost:8080/boasVindas/joyce
c++
C++
gcc
archlinux
die.net
Seja bem vindo(a) joyce
localhost:8080/boasVindas
localhost:8080/boasVindas
br-C.org
C++ VISUAL STUDIO
Outros favoritos
Seja bem vindo(a)
localhost:8080
localhost:8080
Hello World
Pronto temos as 3 rotas

#7
MODELOS

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



Crie uma nova pasta dentro da pasta api chamada modelo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EXPLORER
APIS-SPRING-BOOT
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ApiApplication.java
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HELP.md
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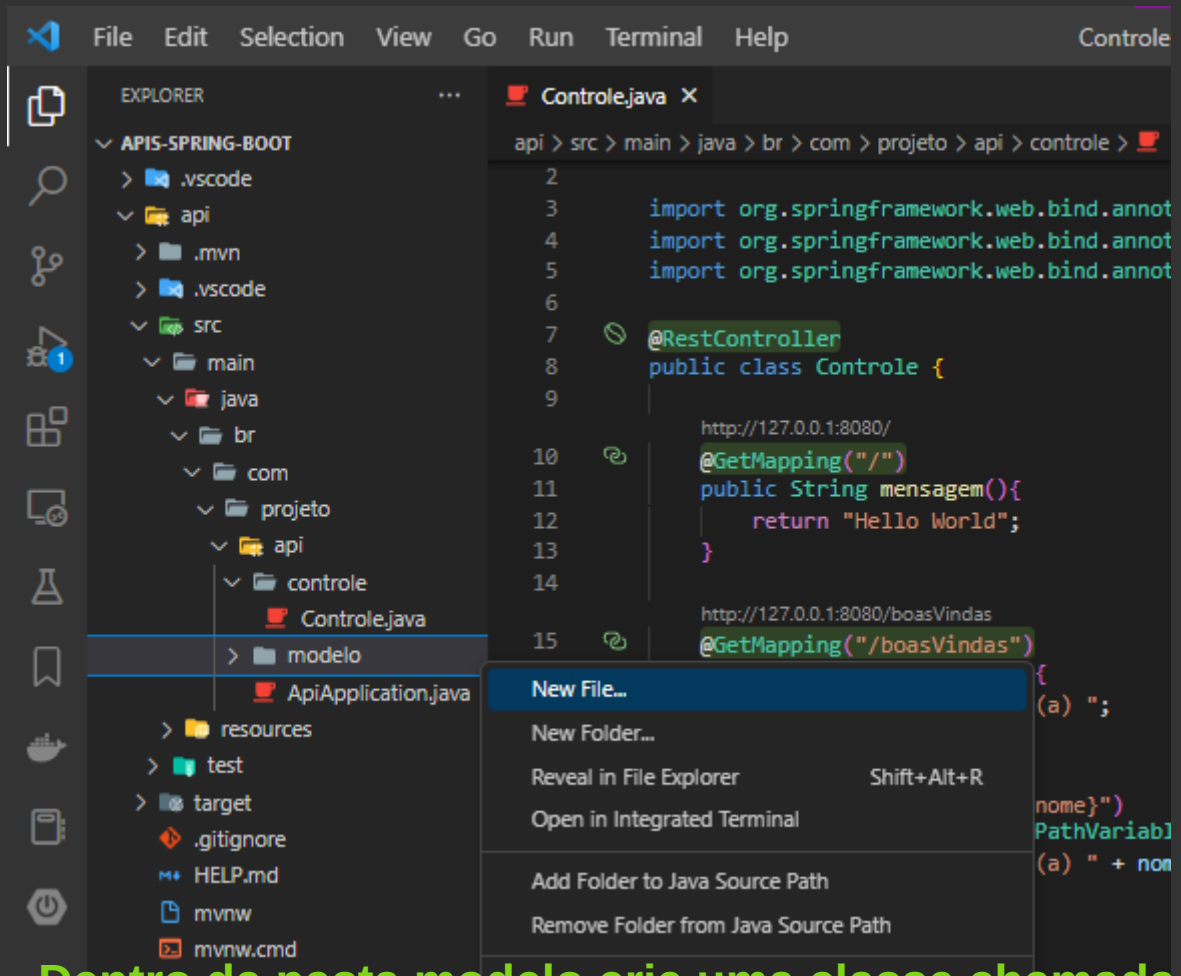
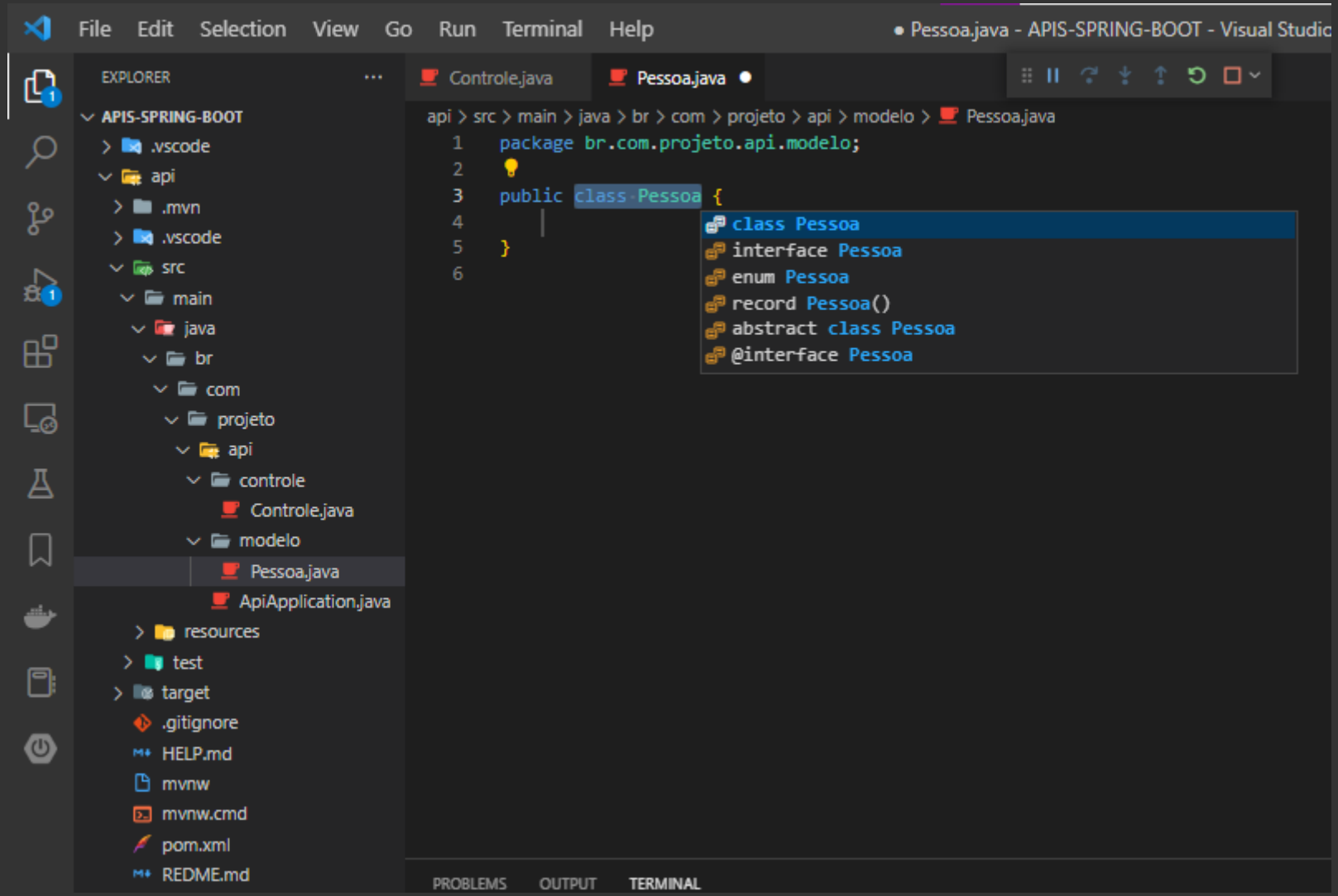
pom.xml
REDME.md



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
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HELP.md
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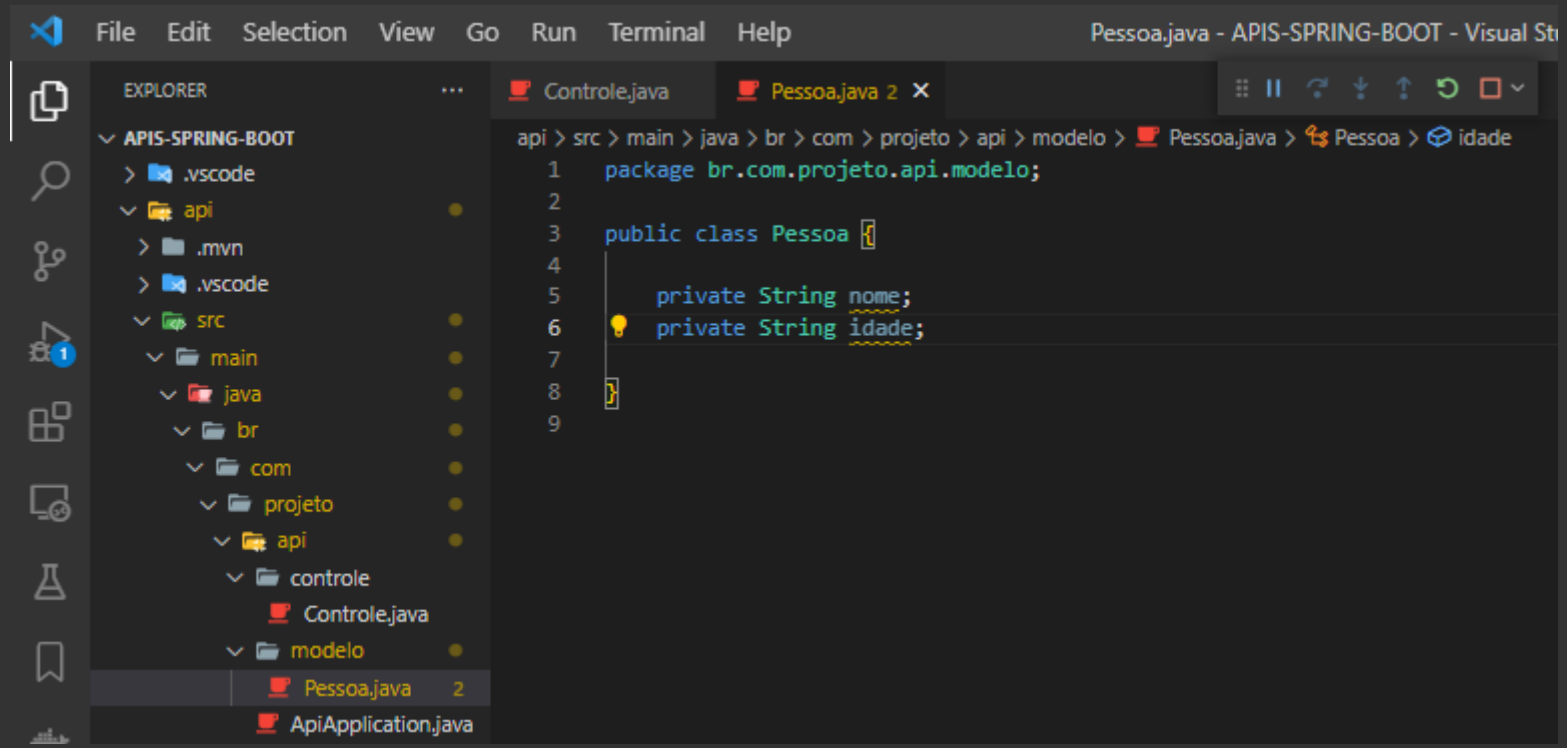
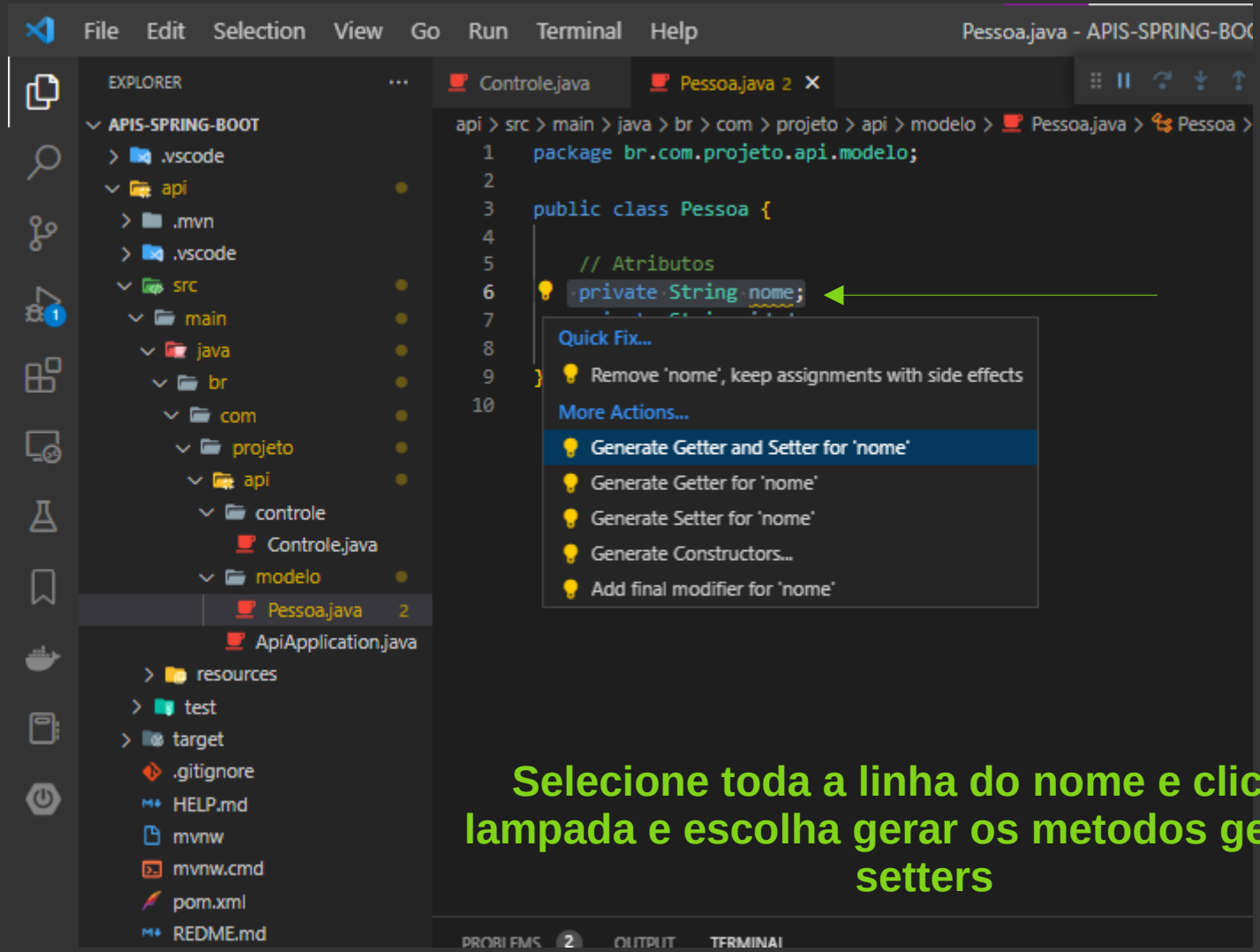
pom.xml
REDME.md
Controle.java
Pessoa.java
api > src > main > java > br > com > projeto > api > modelo > Pessoa.java
1 package br.com.projeto.api.modelo;
2
3 public class Pessoa {
4
5 }
6
class Pessoa
interface Pessoa
enum Pessoa
record Pessoa()
abstract class Pessoa
@interface Pessoa
PROBLEMS
OUTPUT
TERMINAL



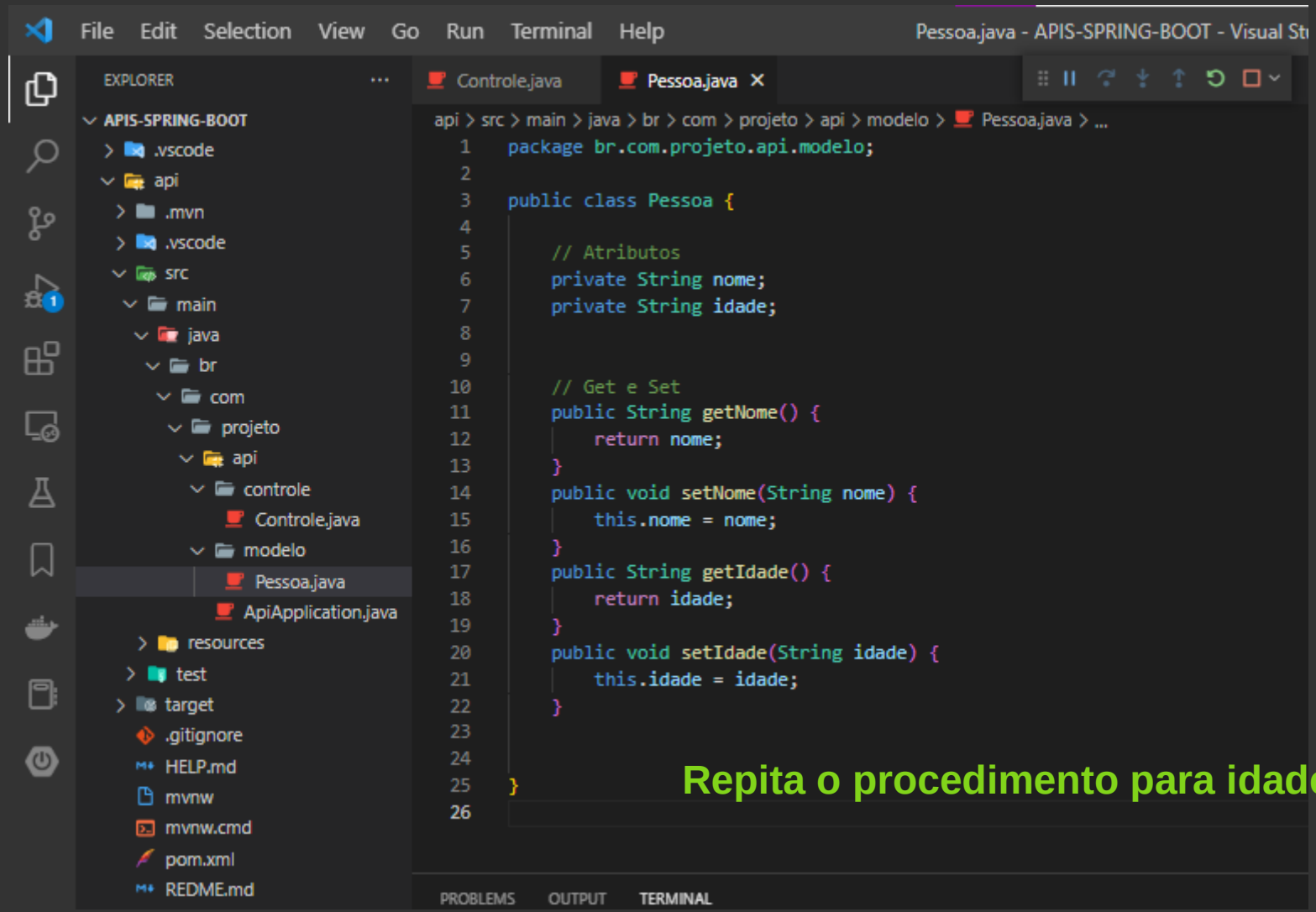
Inicialmente crie esses 2 atributos nome e idade

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



Selecione toda a linha do nome e click na lampada e escolha gerar os metodos getters e setters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Pessoa.java - APIS-SPRING-BOOT - Visual St
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HELP.md
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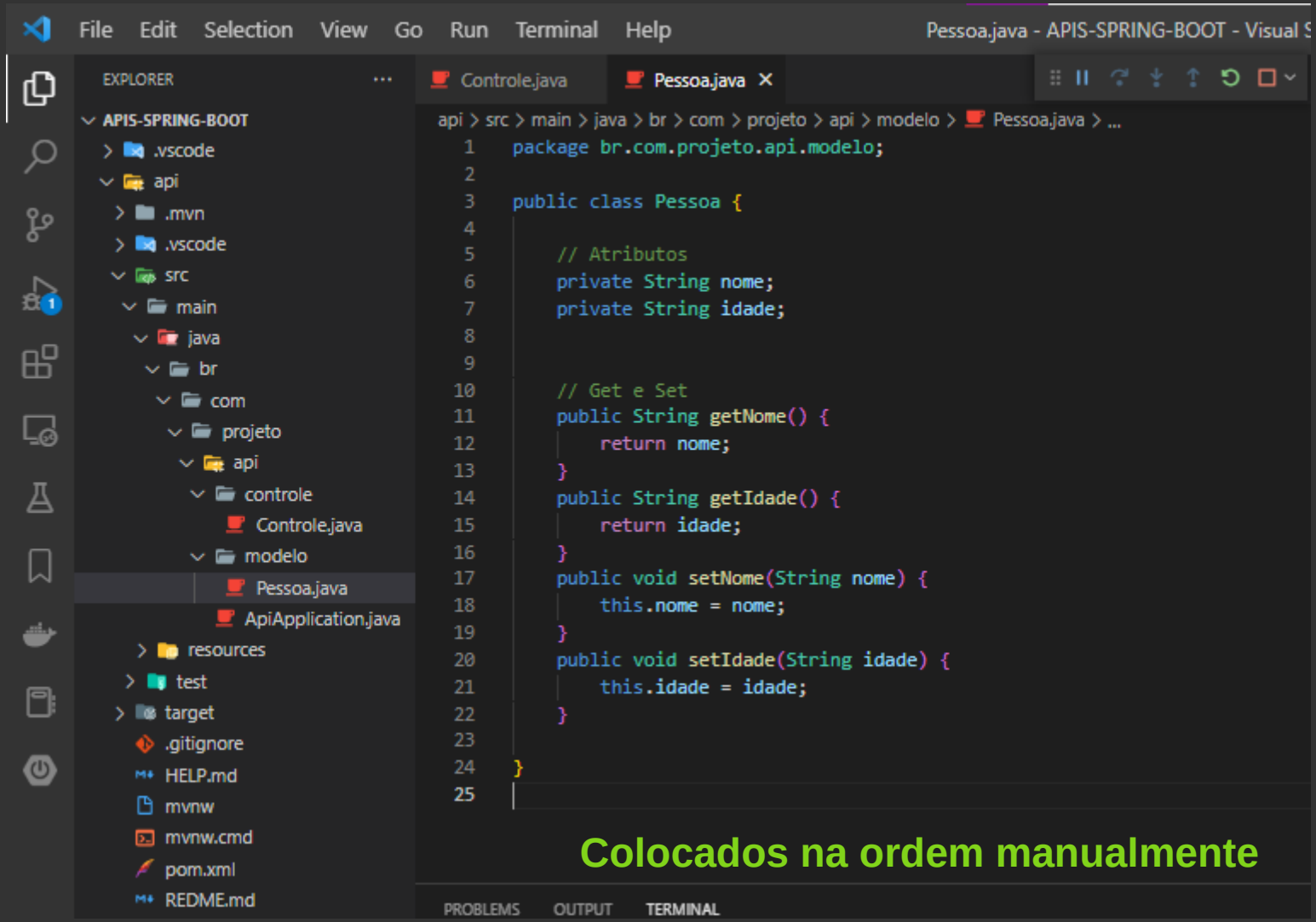
mvnw.cmd
pom.xml
REDME.md
Controle.java
Pessoa.java
api > src > main > java > br > com > projeto > api > modelo > Pessoa.java > ...
1 package br.com.projeto.api.modelo;
2
3 public class Pessoa {
4
5 // Atributos
6 private String nome;
7 private String idade;
8
9
10 // Get e Set
11 public String getNome() {
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
PROBLEMS
OUTPUT
TERMINAL

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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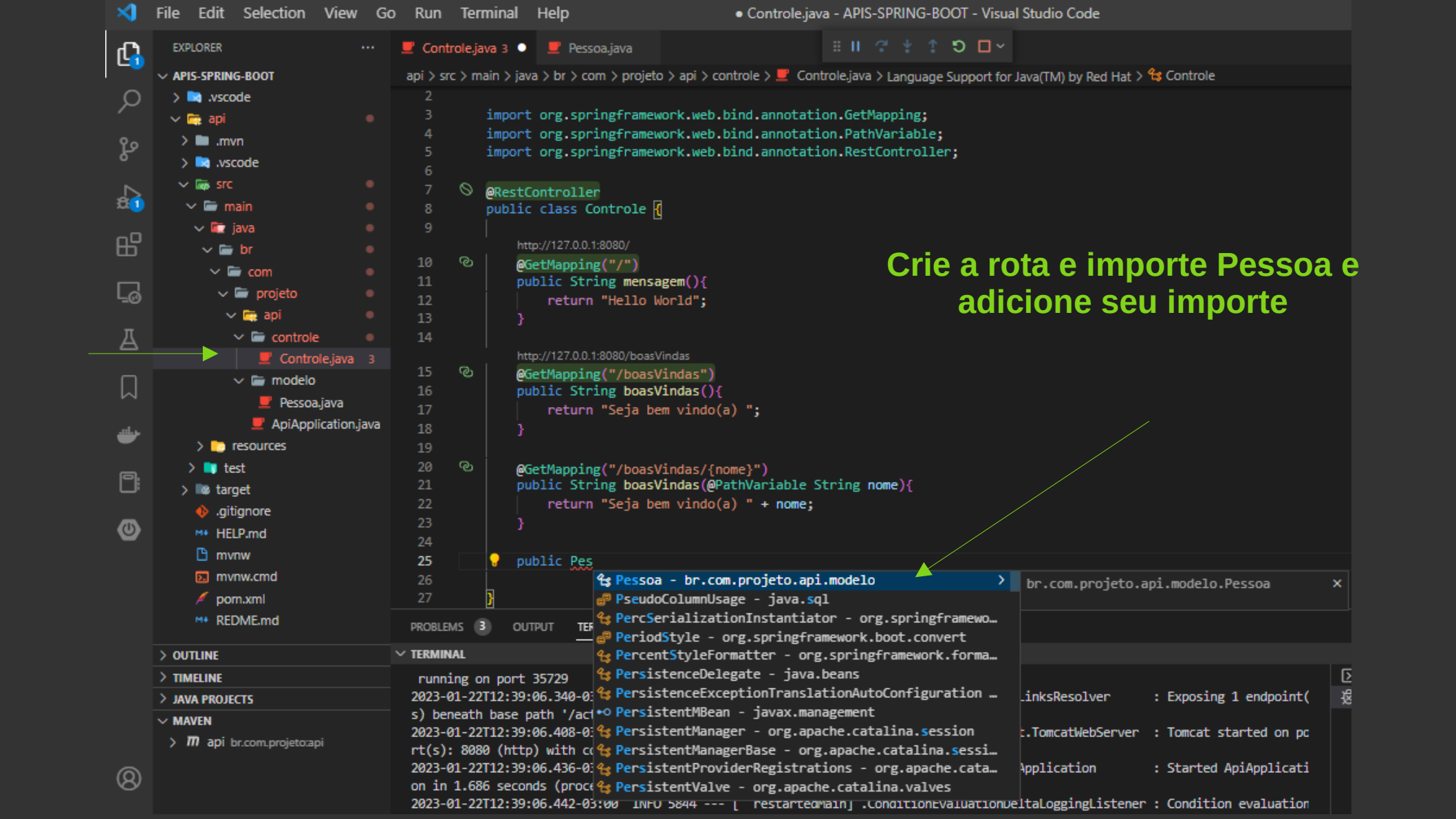
REDME.md
Controle.java
Pessoa.java
api > src > main > java > br > com > projeto > api > modelo > Pessoa.java > ...
1 package br.com.projeto.api.modelo;
2
3 public class Pessoa {
4
5 // Atributos
6 private String nome;
7 private String idade;
8
9
10 // Get e Set
11 public String getNome() {
12 return 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
Colocados na ordem manualmente
PROBLEMS OUTPUT TERMINAL

#8
Vinculando modelos e controles

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


File Edit Selection View Go Run Terminal Help
• Controle.java - APIS-SPRING-BOOT - Visual Studio Code
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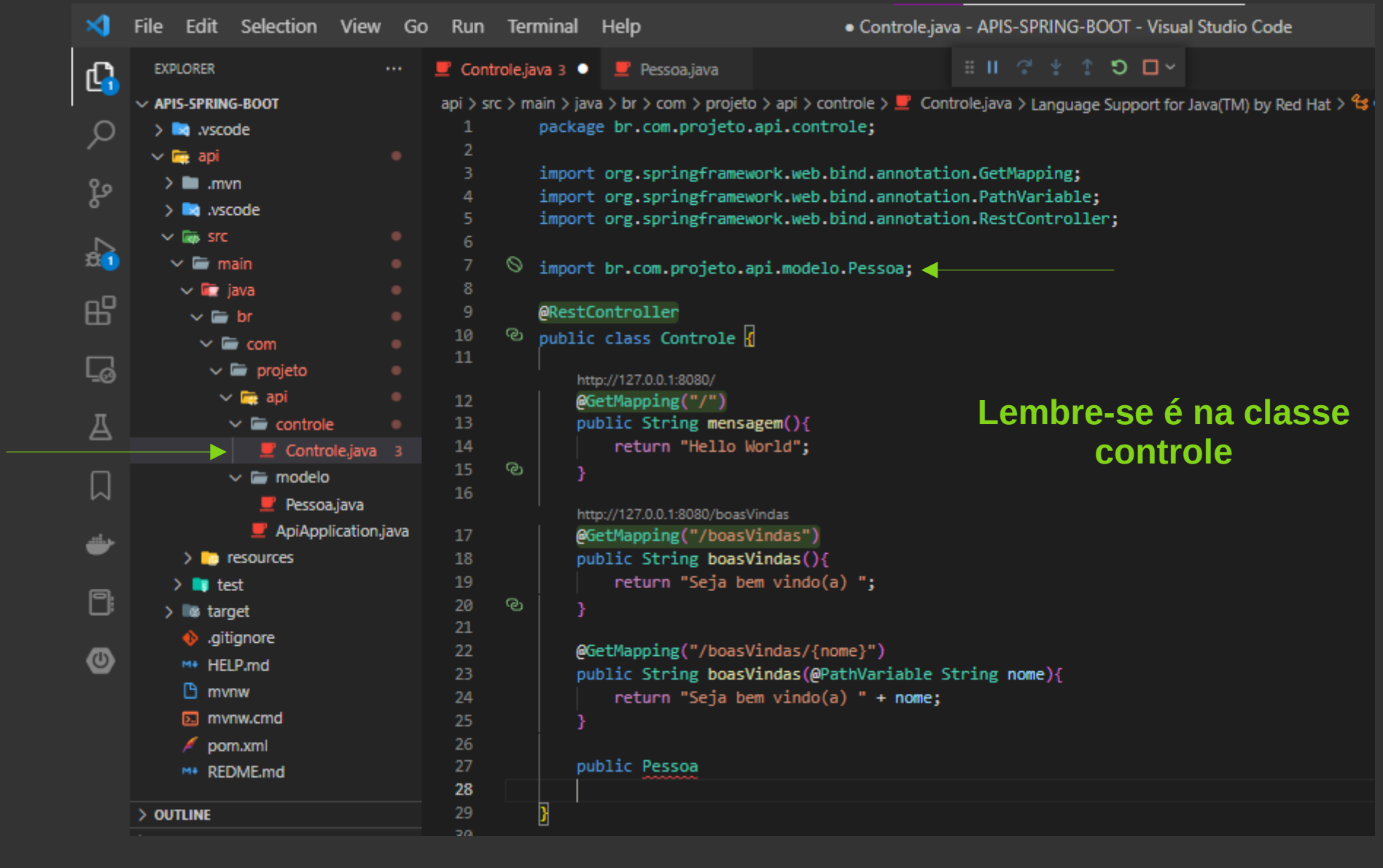
HELP.md
mvnw
mvnw.cmd
pom.xml
REDME.md
Controle.java 3
Pessoa.java
api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Java(TM) by Red Hat > Controle
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.RestController;
@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 Pes
}
Crie a rota e importe Pessoa e adicione seu importe
Pessoa - br.com.projeto.api.modelo
PseudoColumnUsage - java.sql
PercSerializationInstantiator - org.springframewo…
PeriodStyle - org.springframework.boot.convert
PercentStyleFormatter - org.springframework.forma…
PersistenceDelegate - java.beans
PersistenceExceptionTranslationAutoConfiguration …
PersistentMBean - javax.management
PersistentManager - org.apache.catalina.session
PersistentManagerBase - org.apache.catalina.sessi…
PersistentProviderRegistrations - org.apache.cata…
PersistentValve - org.apache.catalina.valves
br.com.projeto.api.modelo.Pessoa
PROBLEMS 3
OUTPUT
TERMINAL
running on port 35729
: Exposing 1 endpoint(
: Tomcat started on pc
: Started ApiApplicati
: Condition evaluation
OUTLINE
TIMELINE
JAVA PROJECTS
MAVEN
api br.com.projeto:api


File Edit Selection View Go Run Terminal Help
• Controle.java - APIS-SPRING-BOOT - Visual Studio Code
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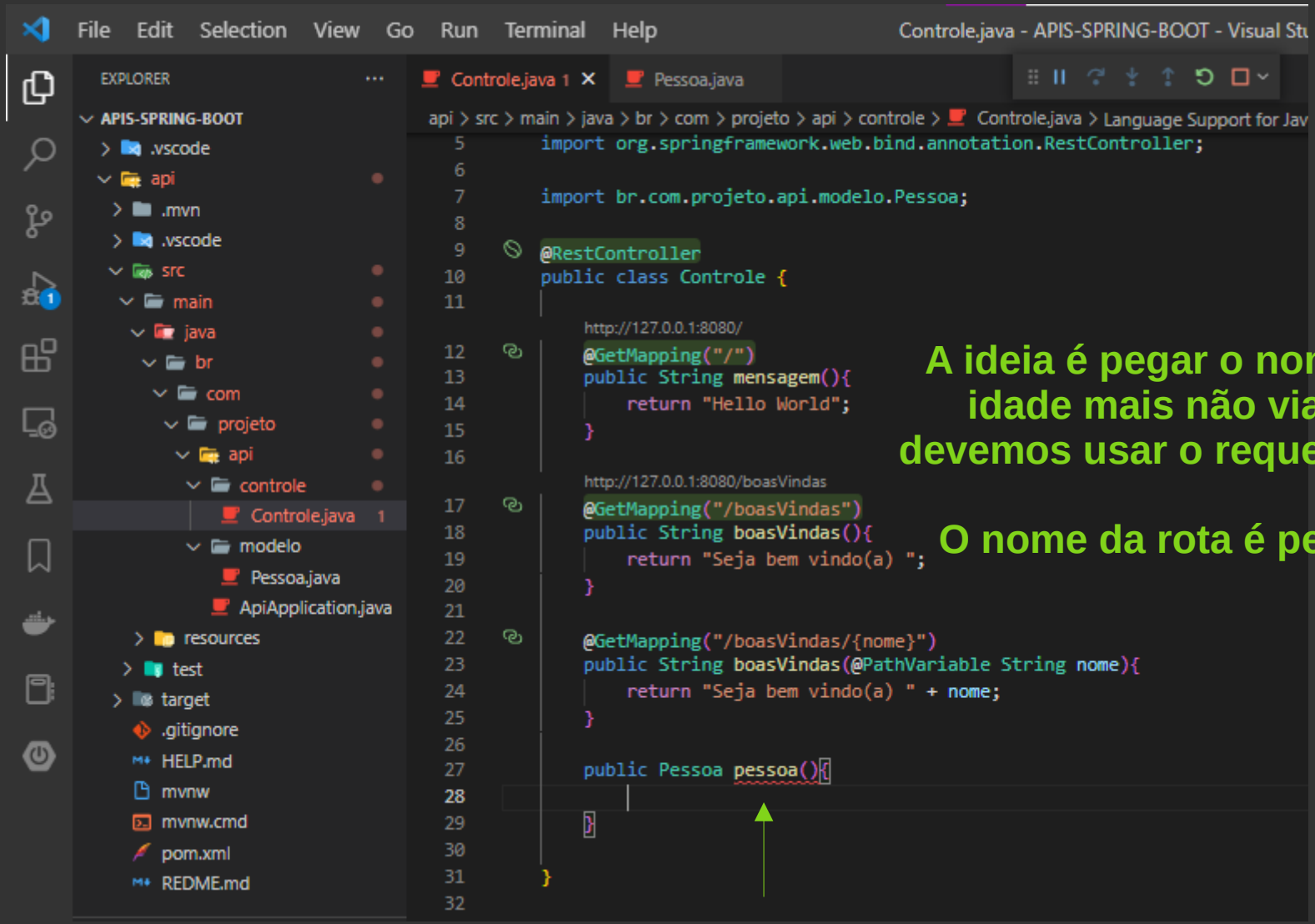
mvnw
mvnw.cmd
pom.xml
REDME.md
OUTLINE
Controle.java 3
Pessoa.java
api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Java(TM) by Red Hat
1 package br.com.projeto.api.controle;
3 import org.springframework.web.bind.annotation.GetMapping;
4 import org.springframework.web.bind.annotation.PathVariable;
5 import org.springframework.web.bind.annotation.RestController;
7 import br.com.projeto.api.modelo.Pessoa;
9 @RestController
10 public class Controle {
http://127.0.0.1:8080/
12 @GetMapping("/")
13 public String mensagem(){
14 return "Hello World";
15 }
http://127.0.0.1:8080/boasVindas
17 @GetMapping("/boasVindas")
18 public String boasVindas(){
19 return "Seja bem vindo(a) ";
20 }
22 @GetMapping("/boasVindas/{nome}")
23 public String boasVindas(@PathVariable String nome){
24 return "Seja bem vindo(a) " + nome;
25 }
27 public Pessoa
29 }
Lembre-se é na classe controle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REDME.md
Controle.java 1
Pessoa.java
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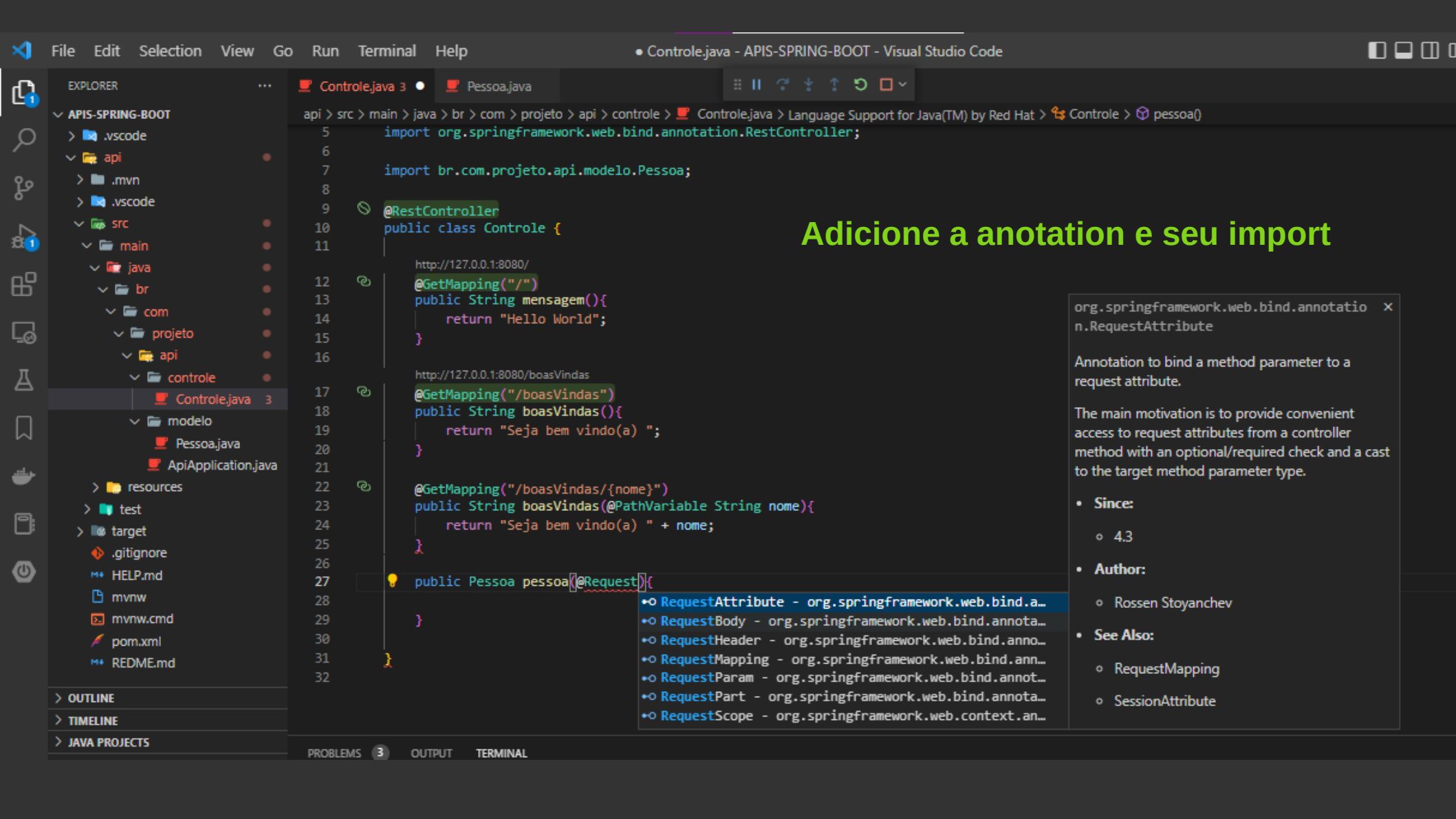
import org.springframework.web.bind.annotation.RestController;
import br.com.projeto.api.modelo.Pessoa;
@RestController
public class Controle {
http://127.0.0.1:8080/
@GetMapping("/")
public String mensagem(){
return "Hello World";
}
http://127.0.0.1:8080/boasVindas
@GetMapping("/boasVindas")
public 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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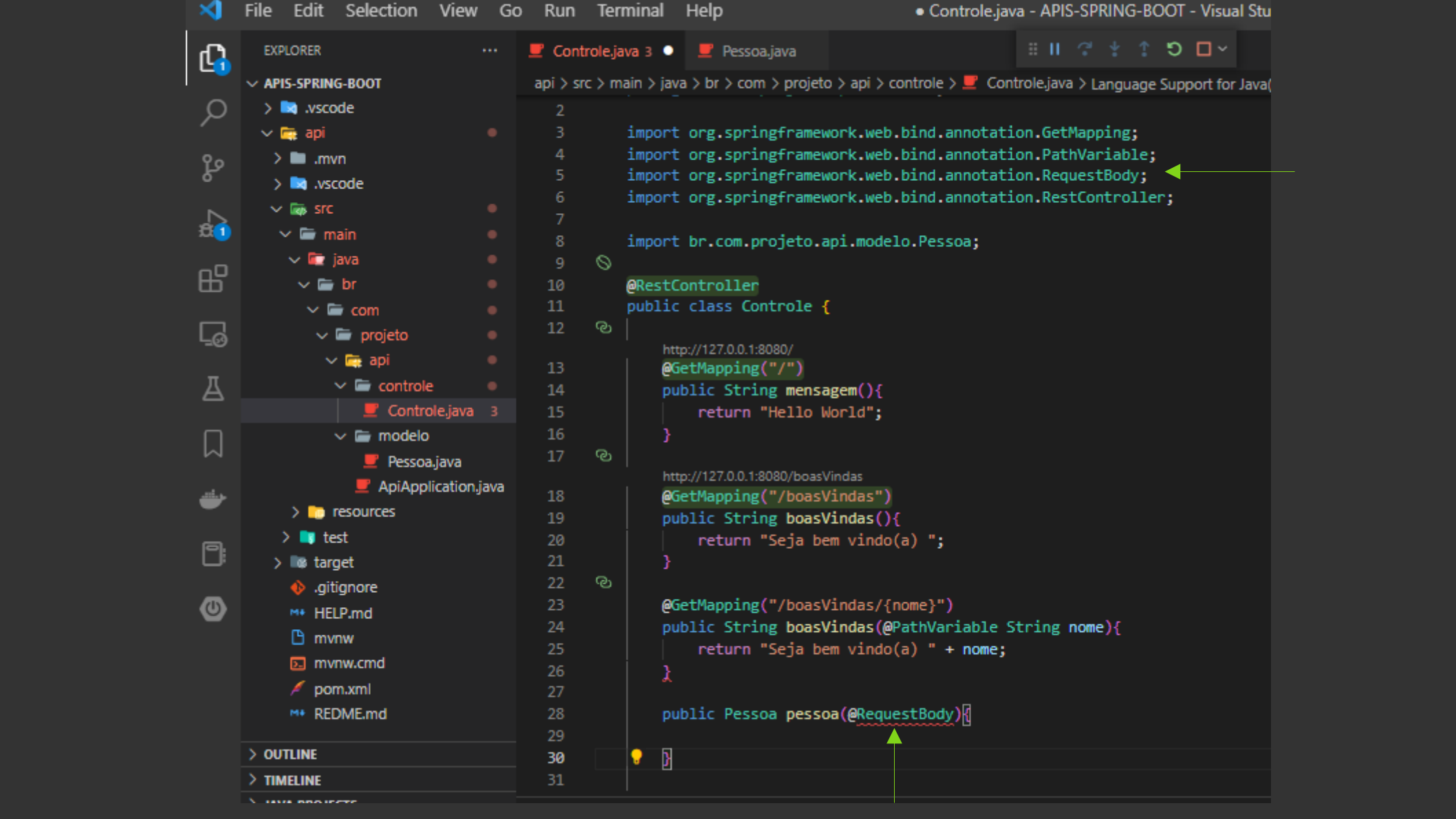
Controle.java 3
Pessoa.java
api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Java(TM) by Red Hat > Controle > pessoa()
5 import org.springframework.web.bind.annotation.RestController;
6
7 import br.com.projeto.api.modelo.Pessoa;
8
9 @RestController
10 public class Controle {
11
http://127.0.0.1:8080/
12 @GetMapping("/")
13 public String mensagem(){
14 return "Hello World";
15 }
16
http://127.0.0.1:8080/boasVindas
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){
28
29 }
30
31 }
32
RequestAttribute - org.springframework.web.bind.a...
RequestBody - org.springframework.web.bind.annota...
RequestHeader - org.springframework.web.bind.anno...
RequestMapping - org.springframework.web.bind.ann...
RequestParam - org.springframework.web.bind.annot...
RequestPart - org.springframework.web.bind.annota...
RequestScope - org.springframework.web.context.an...
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
Adicione a anotation e seu import
PROBLEMS 3
OUTPUT
TERMINAL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Controle.java 3
Pessoa.java
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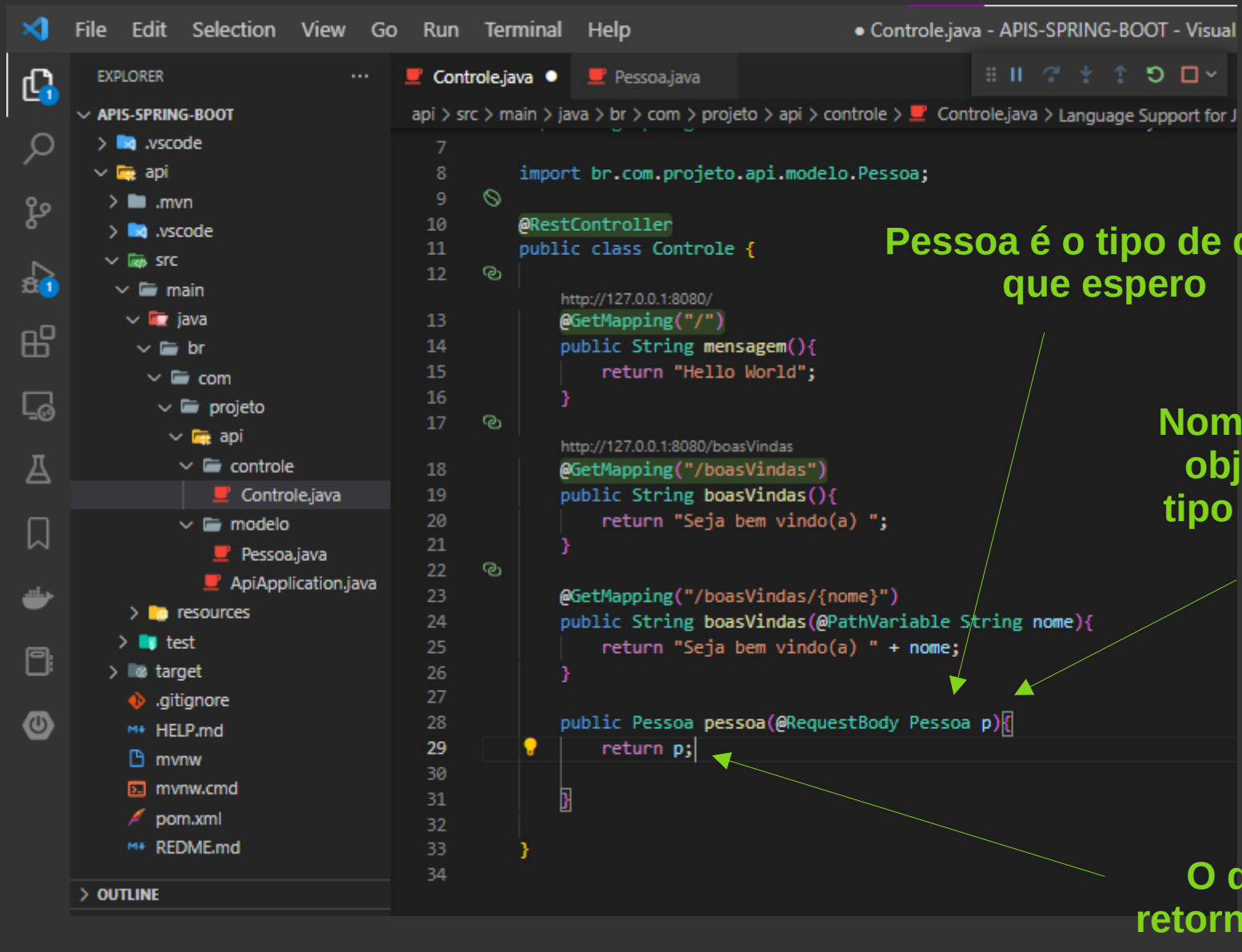
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RestController;
import br.com.projeto.api.modelo.Pessoa;
@RestController
public 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(@RequestBody){
}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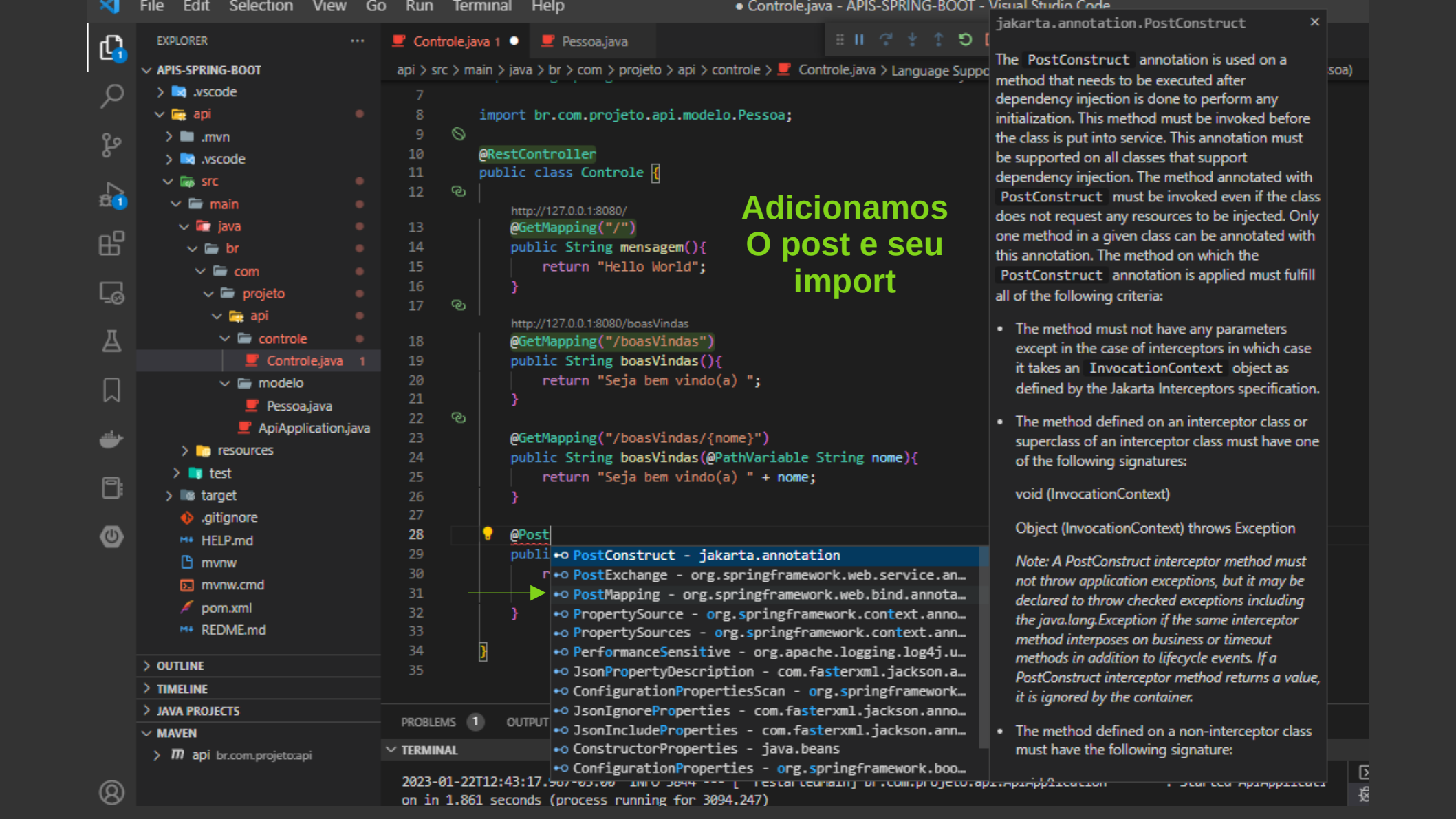
import br.com.projeto.api.modelo.Pessoa;
@RestController
public class Controle {
http://127.0.0.1:8080/
@GetMapping("/")
public String mensagem(){
return "Hello World";
}
http://127.0.0.1:8080/boasVindas
@GetMapping("/boasVindas")
public String boasVindas(){
return "Seja bem vindo(a) ";
}
@GetMapping("/boasVindas/{nome}")
public String boasVindas(@PathVariable String nome){
return "Seja bem vindo(a) " + nome;
}
public Pessoa pessoa(@RequestBody Pessoa p){
return p;
}
}
Pessoa é o tipo de dado que espero
Nome desse objeto do tipo Pessoa p
O que retornamos

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...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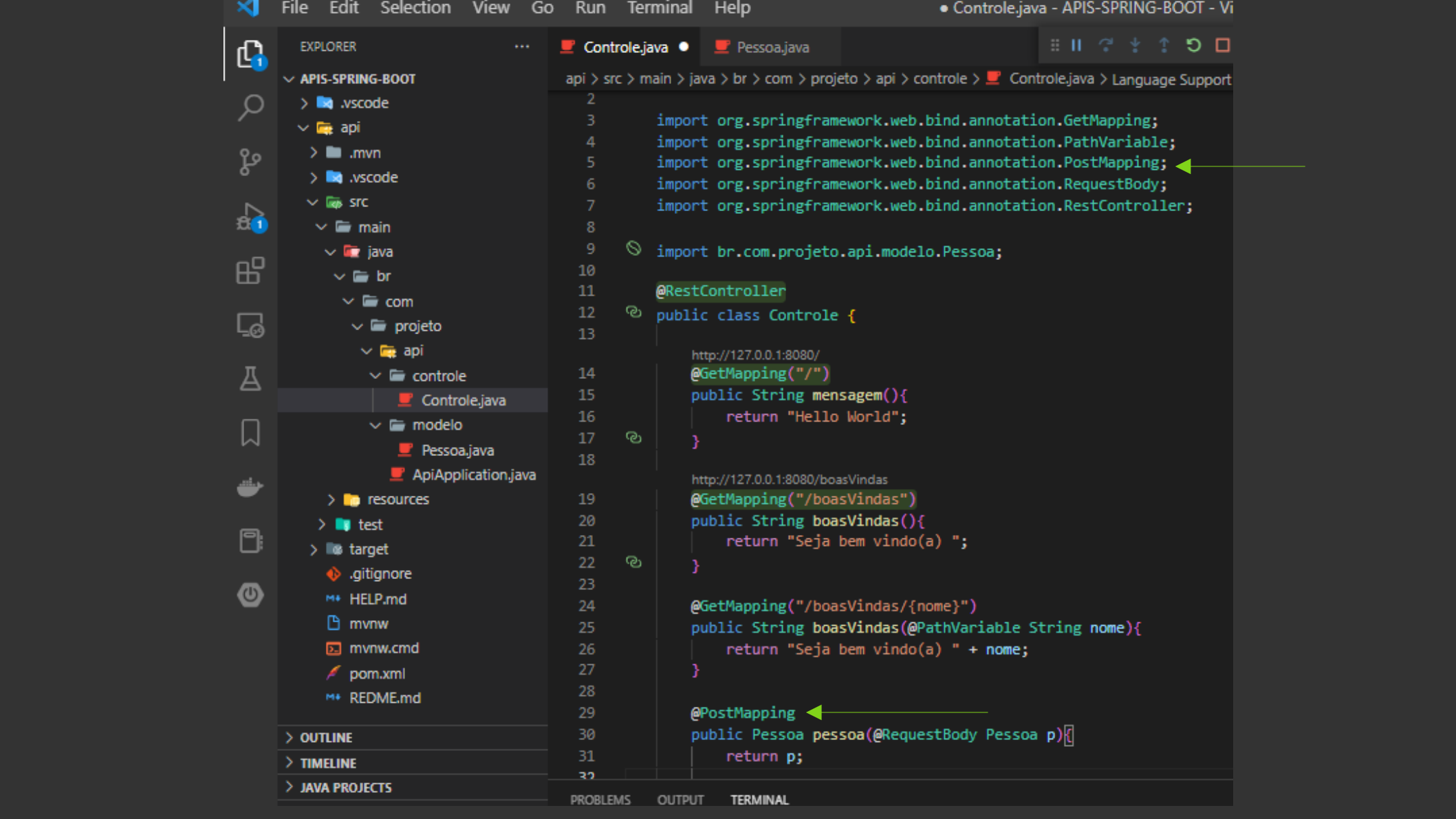
import br.com.projeto.api.modelo.Pessoa;
@RestController
public class Controle {
http://127.0.0.1:8080/
@GetMapping("/")
public String mensagem(){
return "Hello World";
}
http://127.0.0.1:8080/boasVindas
@GetMapping("/boasVindas")
public String boasVindas(){
return "Seja bem vindo(a) ";
}
@GetMapping("/boasVindas/{nome}")
public String boasVindas(@PathVariable String nome){
return "Seja bem vindo(a) " + nome;
}
@Post
publi
}
}
Adicionamos
O post e seu
import
PostConstruct - jakarta.annotation
PostExchange - org.springframework.web.service.an...
PostMapping - org.springframework.web.bind.annota...
PropertySource - org.springframework.context.anno...
PropertySources - org.springframework.context.ann...
PerformanceSensitive - org.apache.logging.log4j.u...
JsonPropertyDescription - com.fasterxml.jackson.a...
ConfigurationPropertiesScan - org.springframework...
JsonIgnoreProperties - com.fasterxml.jackson.anno...
JsonIncludeProperties - com.fasterxml.jackson.ann...
ConstructorProperties - java.beans
ConfigurationProperties - org.springframework.boo...
jakarta.annotation.PostConstruct
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:
PROBLEMS 1
OUTPUT
TERMINAL
on in 1.861 seconds (process running for 3094.247)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pom.xml
REDME.md
OUTLINE
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JAVA PROJECTS
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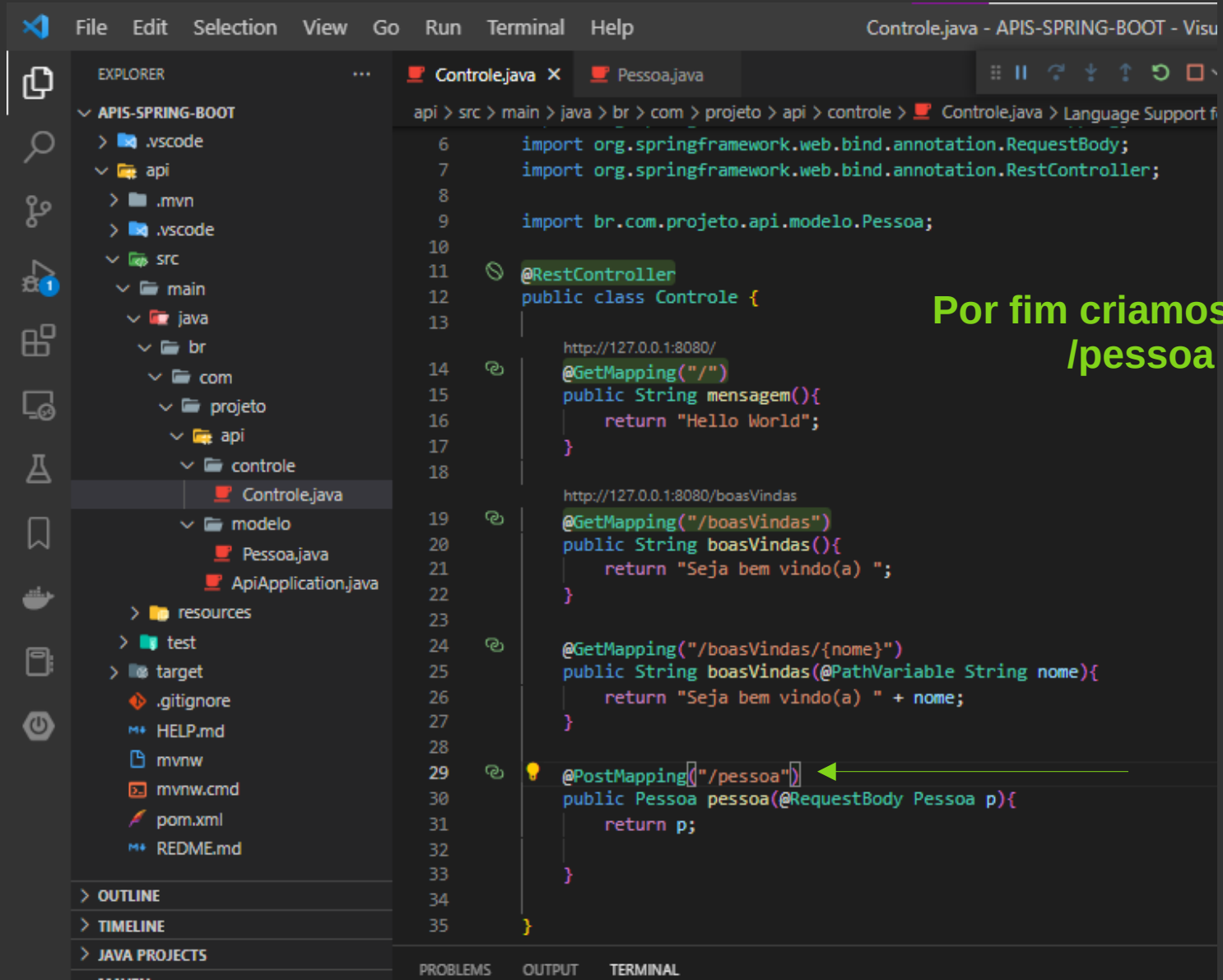
Pessoa.java
api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Support
2
3 import org.springframework.web.bind.annotation.GetMapping;
4 import org.springframework.web.bind.annotation.PathVariable;
5 import org.springframework.web.bind.annotation.PostMapping;
6 import 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
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
24 @GetMapping("/boasVindas/{nome}")
25 public String boasVindas(@PathVariable String nome){
26 return "Seja bem vindo(a) " + nome;
27 }
28
29 @PostMapping
30 public Pessoa pessoa(@RequestBody Pessoa p){
31 return p;
PROBLEMS OUTPUT TERMINAL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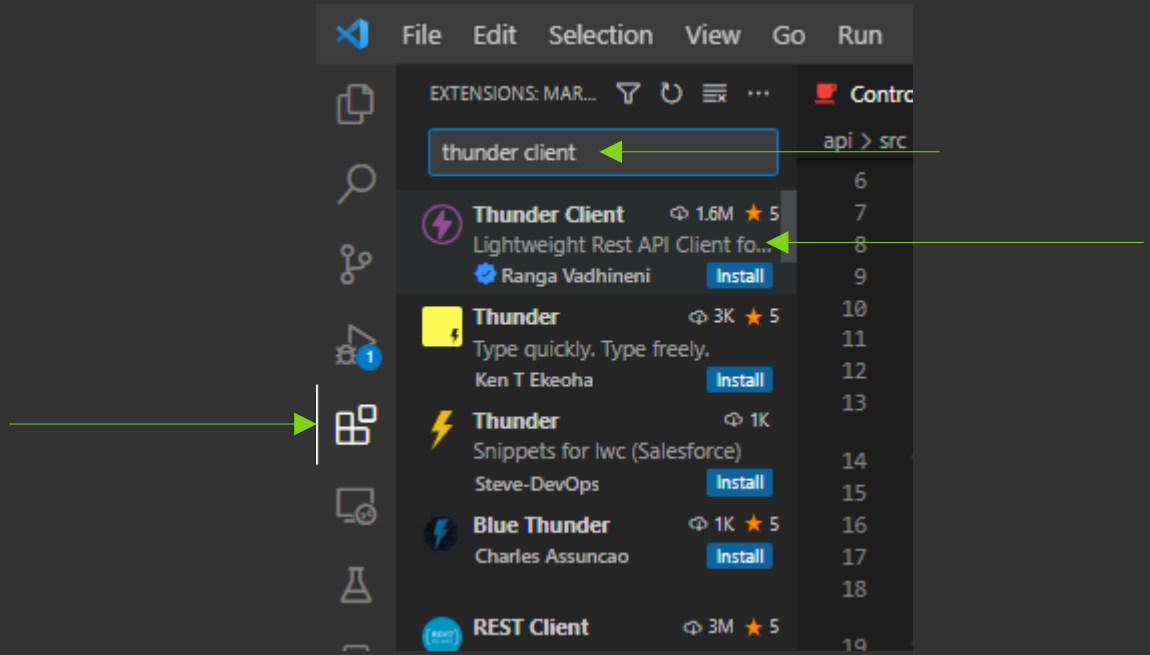
TIMELINE
JAVA PROJECTS
Controle.java
Pessoa.java
api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Support f
6 import org.springframework.web.bind.annotation.RequestBody;
7 import org.springframework.web.bind.annotation.RestController;
8
9 import br.com.projeto.api.modelo.Pessoa;
10
11 @RestController
12 public class Controle {
13
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
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
35 }
PROBLEMS OUTPUT TERMINAL
Por fim criamos a rota /pessoa

#9
Testando o projeto com thunder

Quando ultilizamos o @PostMapping não podemos ultilizar 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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Ranga Vadhineni
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Thunder
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Type quickly. Type freely.
Ken T Ekeoha
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Snippets for lwc (Salesforce)
Steve-DevOps
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Charles Assuncao
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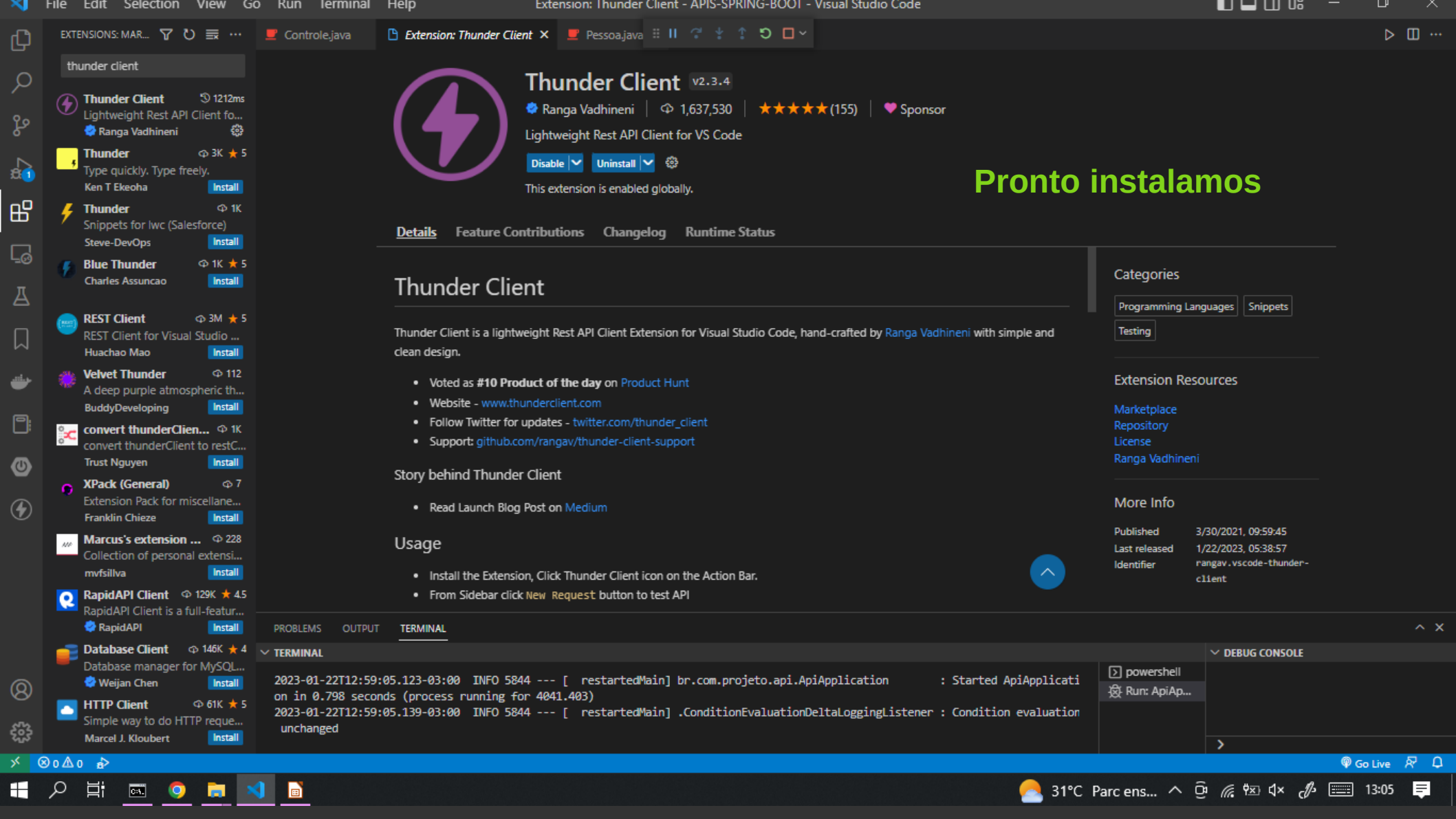
api > src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Extension: Thunder Client - APIS-SPRING-BOOT - Visual Studio Code
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Trust Nguyen Install
XPack (General) 7
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Marcus's extension ... 228
Collection of personal extensi...
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RapidAPI Install
Database Client 146K 4
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Weijan Chen Install
HTTP Client 61K 5
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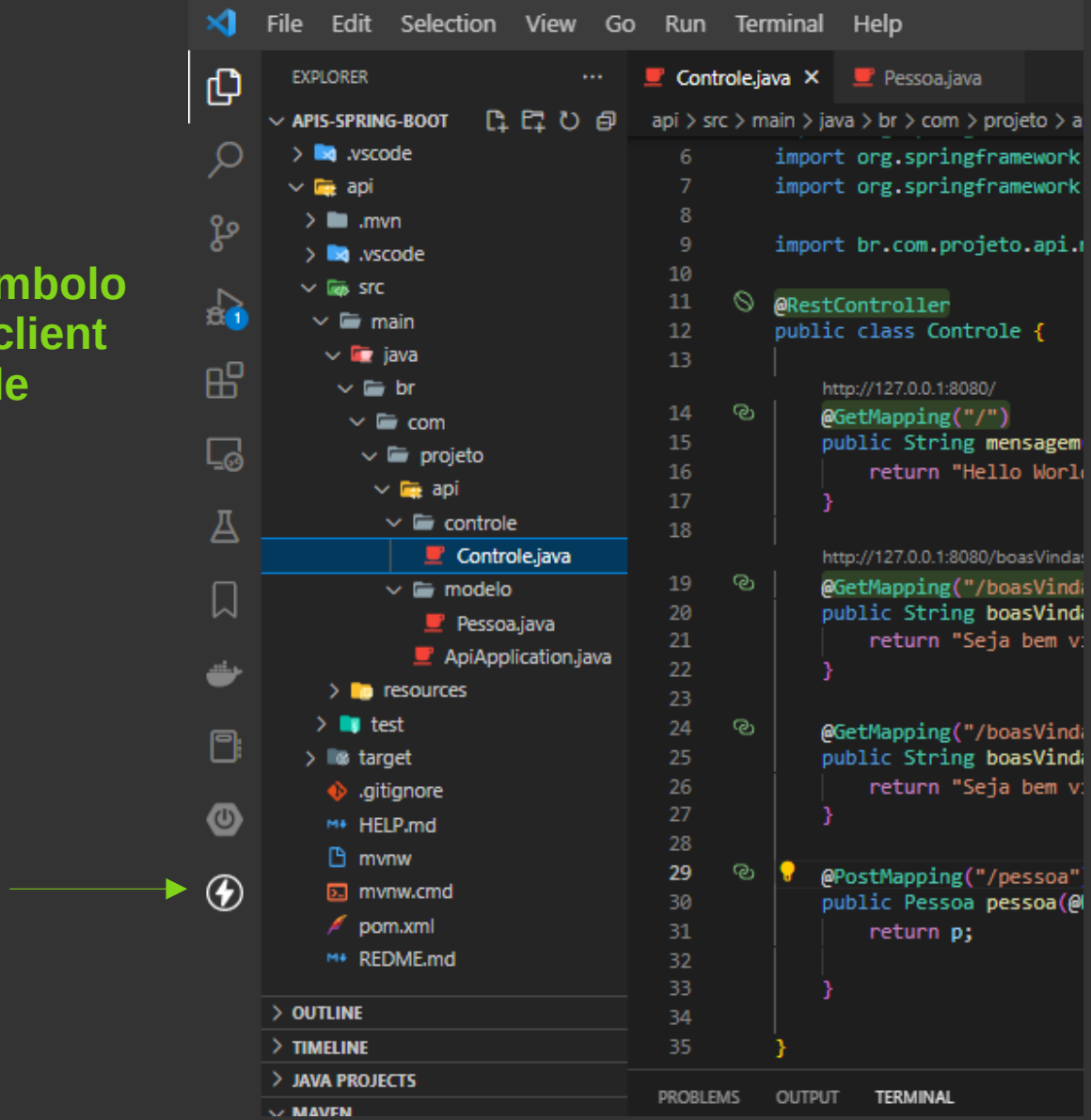
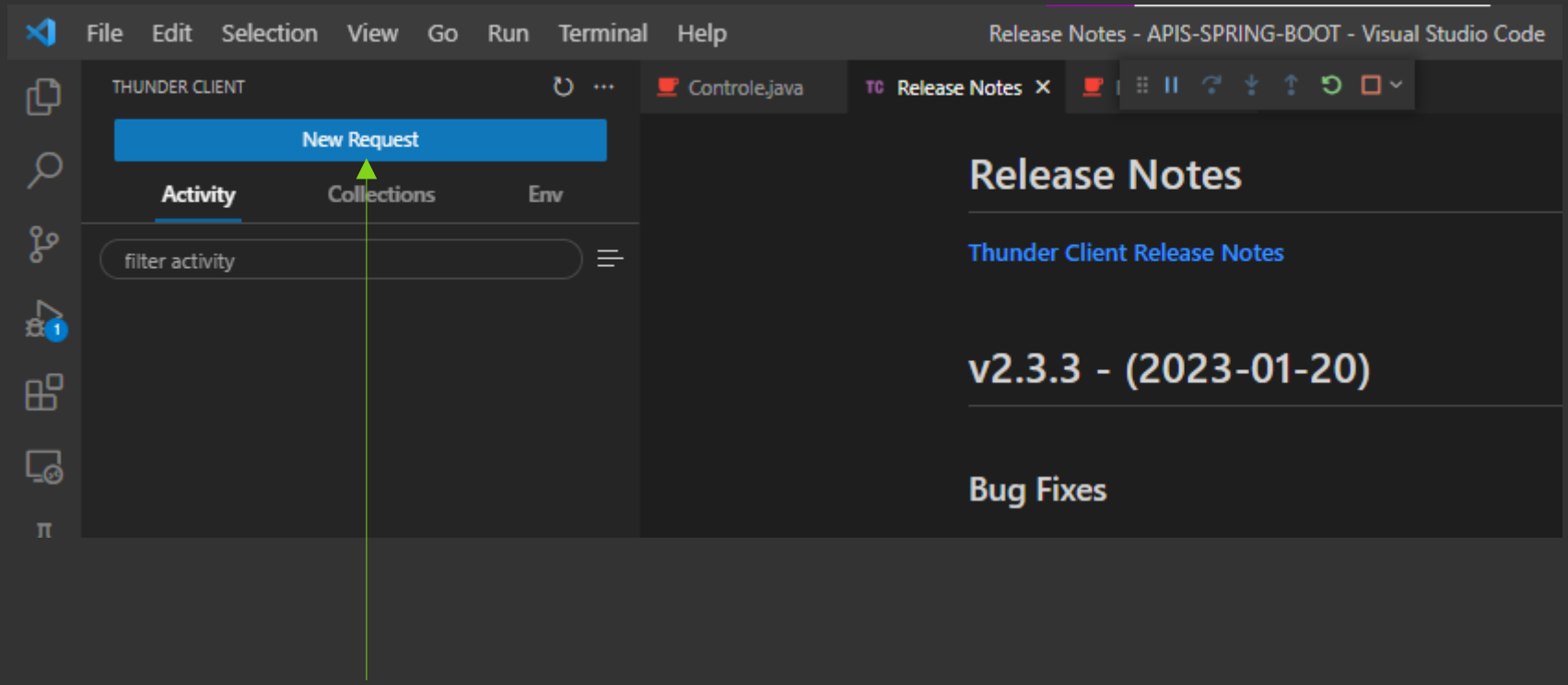
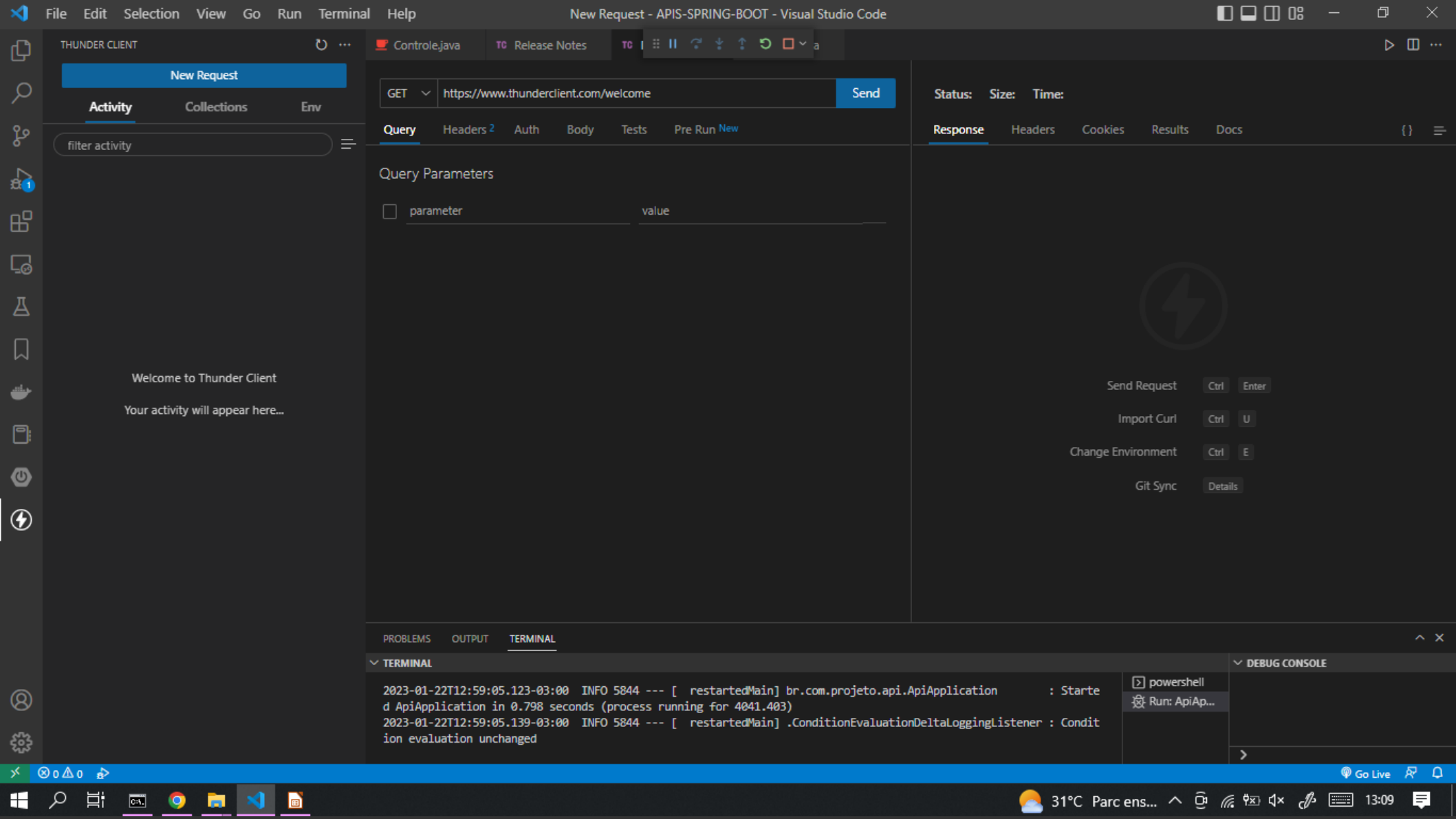
Marcel J. Kloubert Install
Controle.java
Extension: Thunder Client
Pessoa.java
Thunder Client v2.3.4
Ranga Vadhineni | 1,637,530 | ★★★★★(155) | Sponsor
Lightweight Rest API Client for VS Code
Disable Uninstall
This extension is enabled globally.
Pronto instalamos
Details Feature Contributions Changelog Runtime Status
Thunder Client
Thunder Client is a lightweight Rest API Client Extension for Visual Studio Code, hand-crafted by Ranga Vadhineni with simple and clean design.
Voted as #10 Product of the day on Product Hunt
Website - www.thunderclient.com
Follow Twitter for updates - twitter.com/thunder_client
Support: github.com/rangav/thunder-client-support
Story behind Thunder Client
Read Launch Blog Post on Medium
Usage
Install the Extension, Click Thunder Client icon on the Action Bar.
From Sidebar click New Request button to test API
Categories
Programming Languages Snippets Testing
Extension Resources
Marketplace
Repository
License
Ranga Vadhineni
More Info
Published 3/30/2021, 09:59:45
Last released 1/22/2023, 05:38:57
Identifier rangav.vscode-thunder-client
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
powershell
Run: ApiAp...
DEBUG CONSOLE
Go Live
31°C Parc ens...
13:05

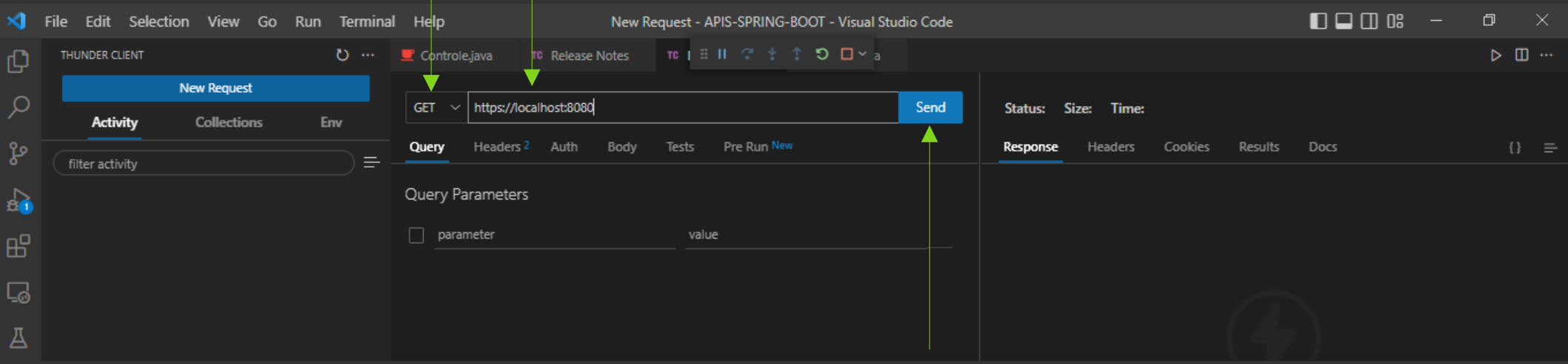
Repare no simbolo do thunder client Click nele



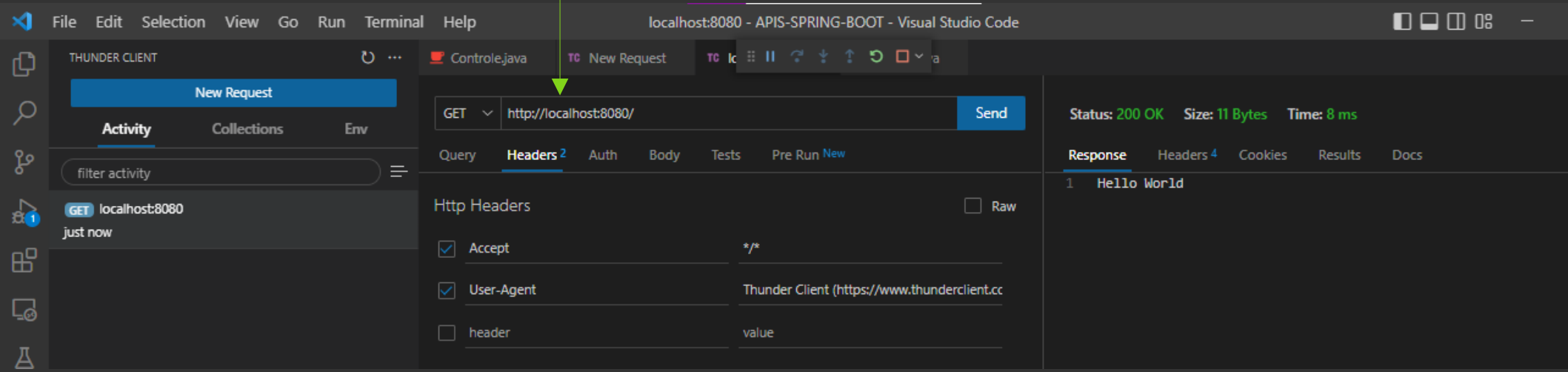
Click em new request



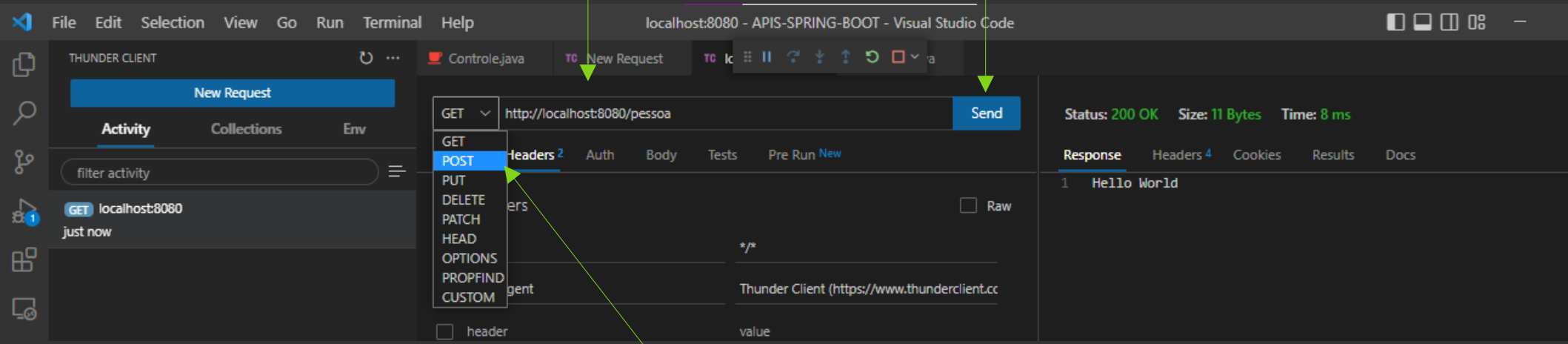

File Edit Selection View Go Run Terminal Help
New Request - APIS-SPRING-BOOT - Visual Studio Code
THUNDER CLIENT
New Request
Activity
Collections
Env
filter activity
Welcome to Thunder Client
Your activity will appear here...
Controle.java
Release Notes
GET
https://www.thunderclient.com/welcome
Send
Query
Headers 2
Auth
Body
Tests
Pre Run New
Query Parameters
parameter
value
Status:
Size:
Time:
Response
Headers
Cookies
Results
Docs
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
powershell
Run: ApiAp...
DEBUG CONSOLE
Go Live
31°C Parc ens...
13:09



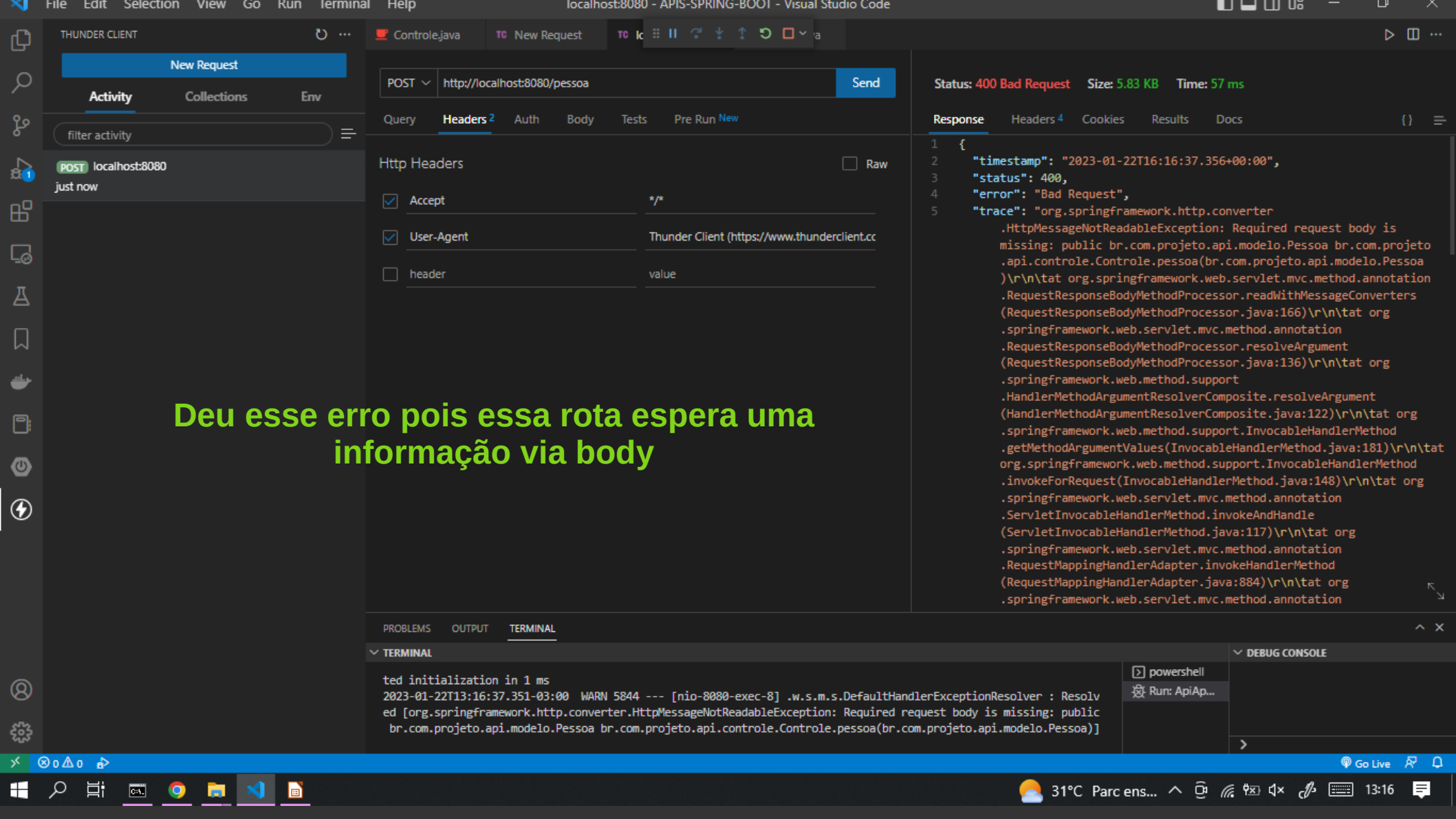
Fazemos um teste na rota hello world digite a url com o metodo get e click em send



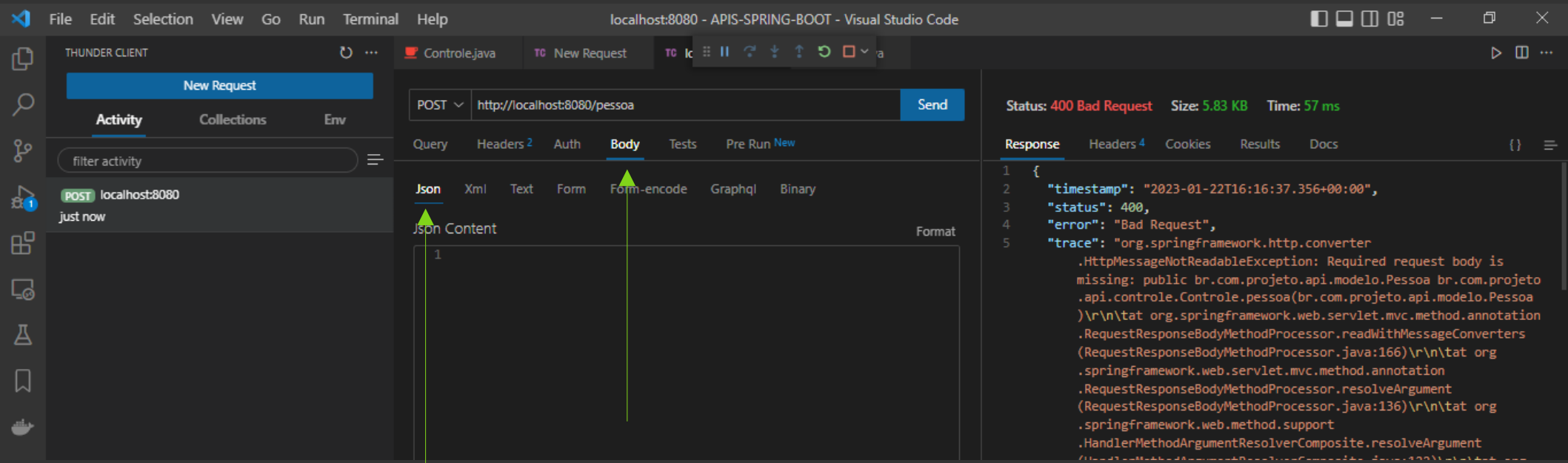
Como deu erro copie e colei a própria url do navegador dai deu certo



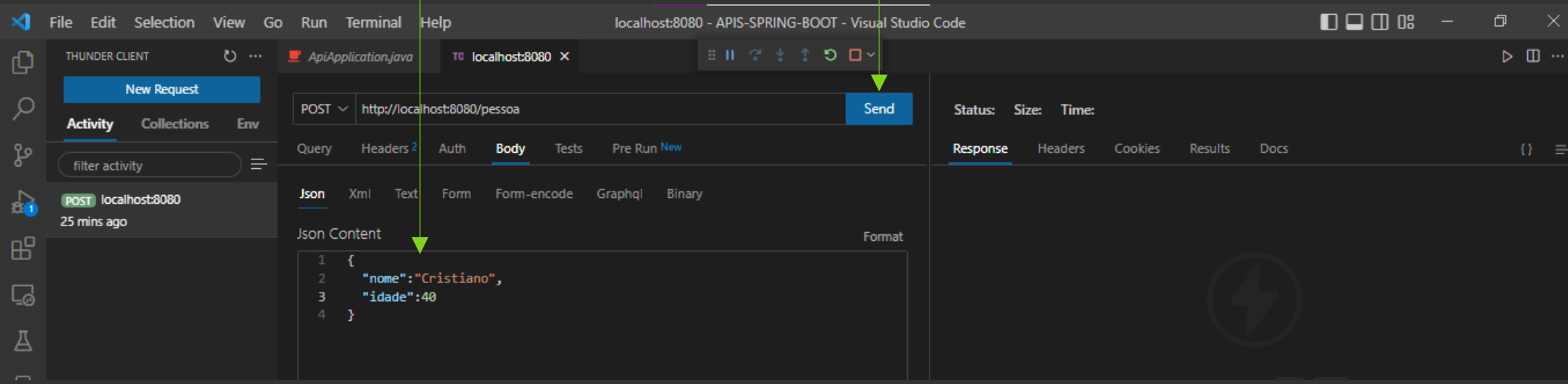
Para acessar a rota /pessoa troque o metodo para POST cole a url e de send


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
Query
Headers 2
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
{
"timestamp": "2023-01-22T16:16:37.356+00:00",
"status": 400,
"error": "Bad Request",
"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\tat org.springframework.web.servlet.mvc.method.annotation
.RequestResponseBodyMethodProcessor.readWithMessageConverters
(RequestResponseBodyMethodProcessor.java:166)\r\n\tat org
.springframework.web.servlet.mvc.method.annotation
.RequestResponseBodyMethodProcessor.resolveArgument
(RequestResponseBodyMethodProcessor.java:136)\r\n\tat org
.springframework.web.method.support
.HandlerMethodArgumentResolverComposite.resolveArgument
(HandlerMethodArgumentResolverComposite.java:122)\r\n\tat org
.springframework.web.method.support.InvocableHandlerMethod
.getMethodArgumentValues(InvocableHandlerMethod.java:181)\r\n\tat
org.springframework.web.method.support.InvocableHandlerMethod
.invokeForRequest(InvocableHandlerMethod.java:148)\r\n\tat org
.springframework.web.servlet.mvc.method.annotation
.ServletInvocableHandlerMethod.invokeAndHandle
(ServletInvocableHandlerMethod.java:117)\r\n\tat org
.springframework.web.servlet.mvc.method.annotation
.RequestMappingHandlerAdapter.invokeHandlerMethod
(RequestMappingHandlerAdapter.java:884)\r\n\tat 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)]
powershell
Run: ApiAp...
DEBUG CONSOLE
Go Live
31°C Parc ens...
13:16

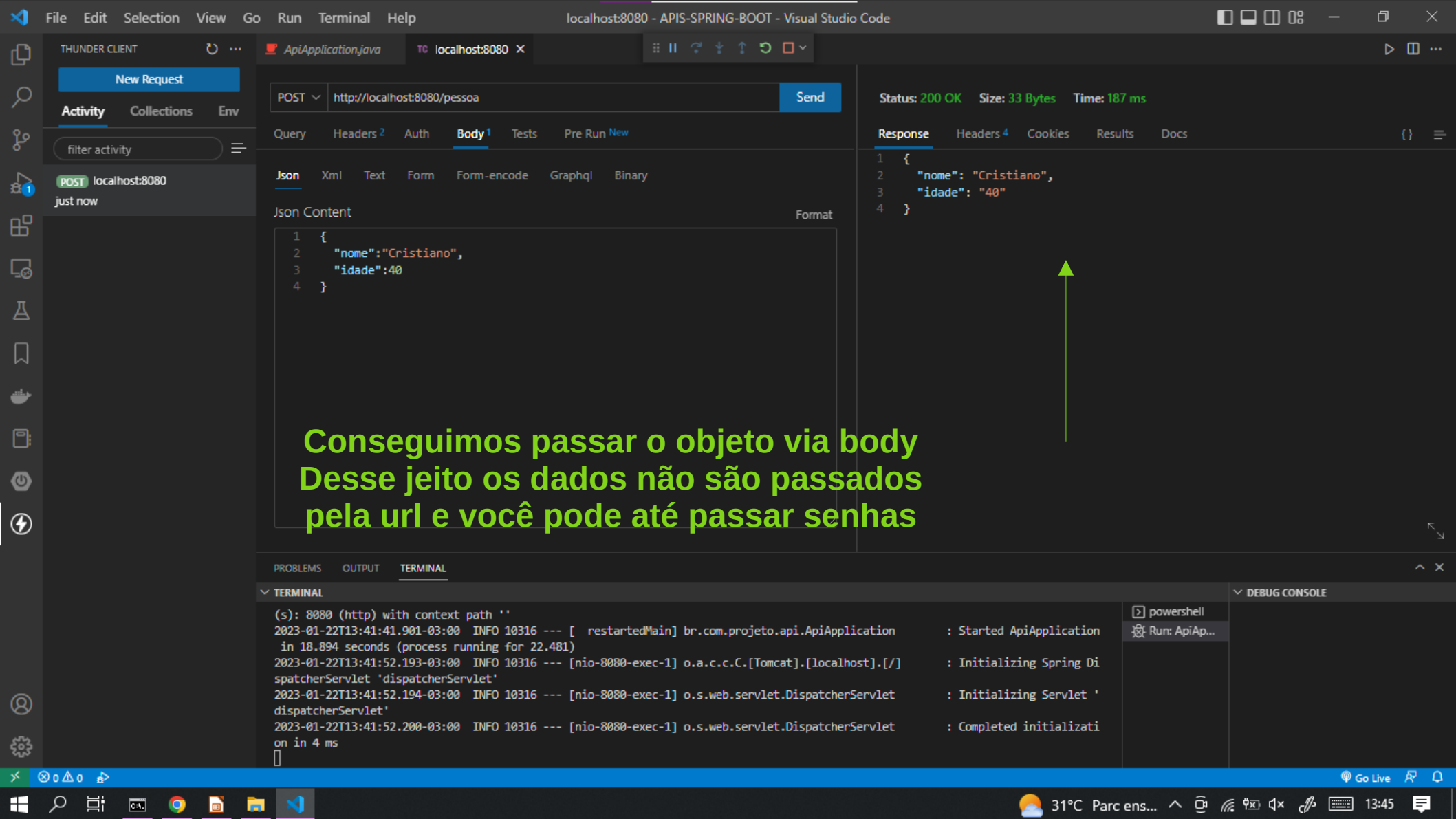
Click em body



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

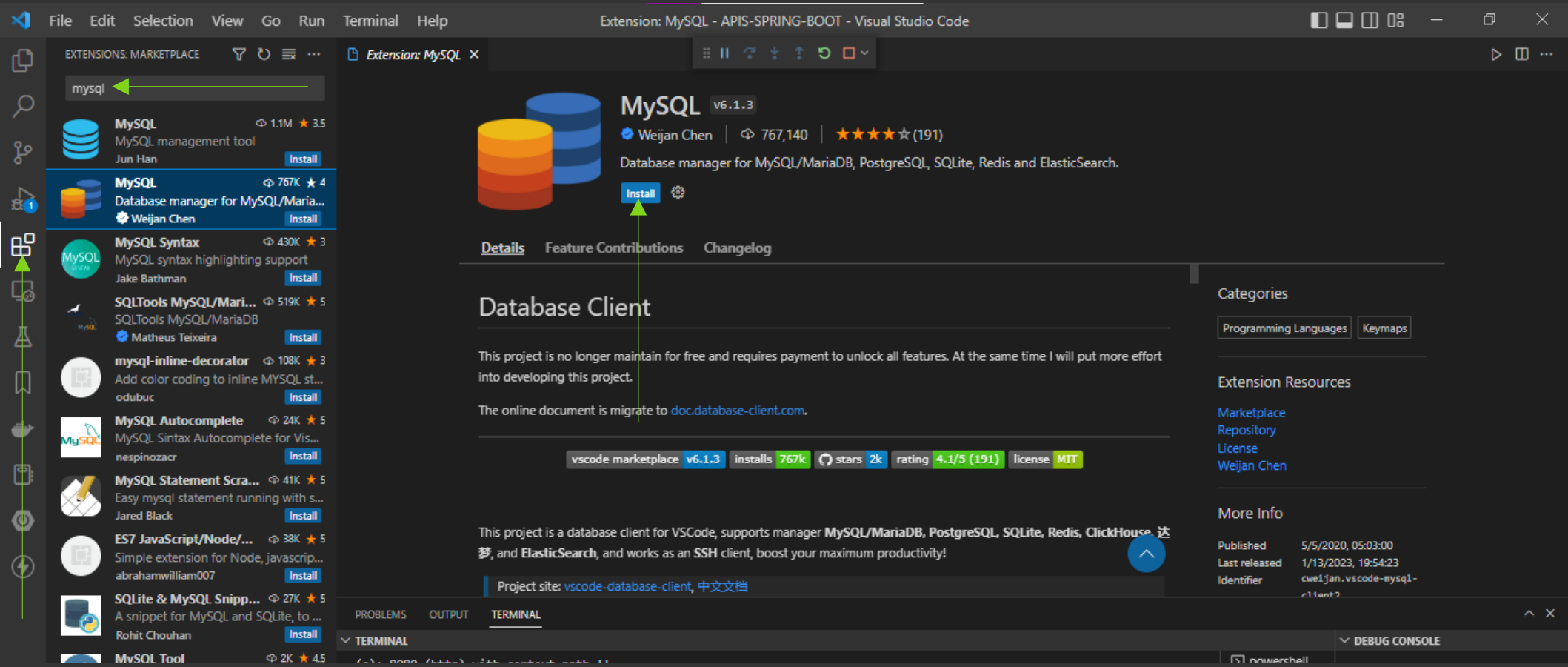


No body crie seu objeto json
E depois click em send

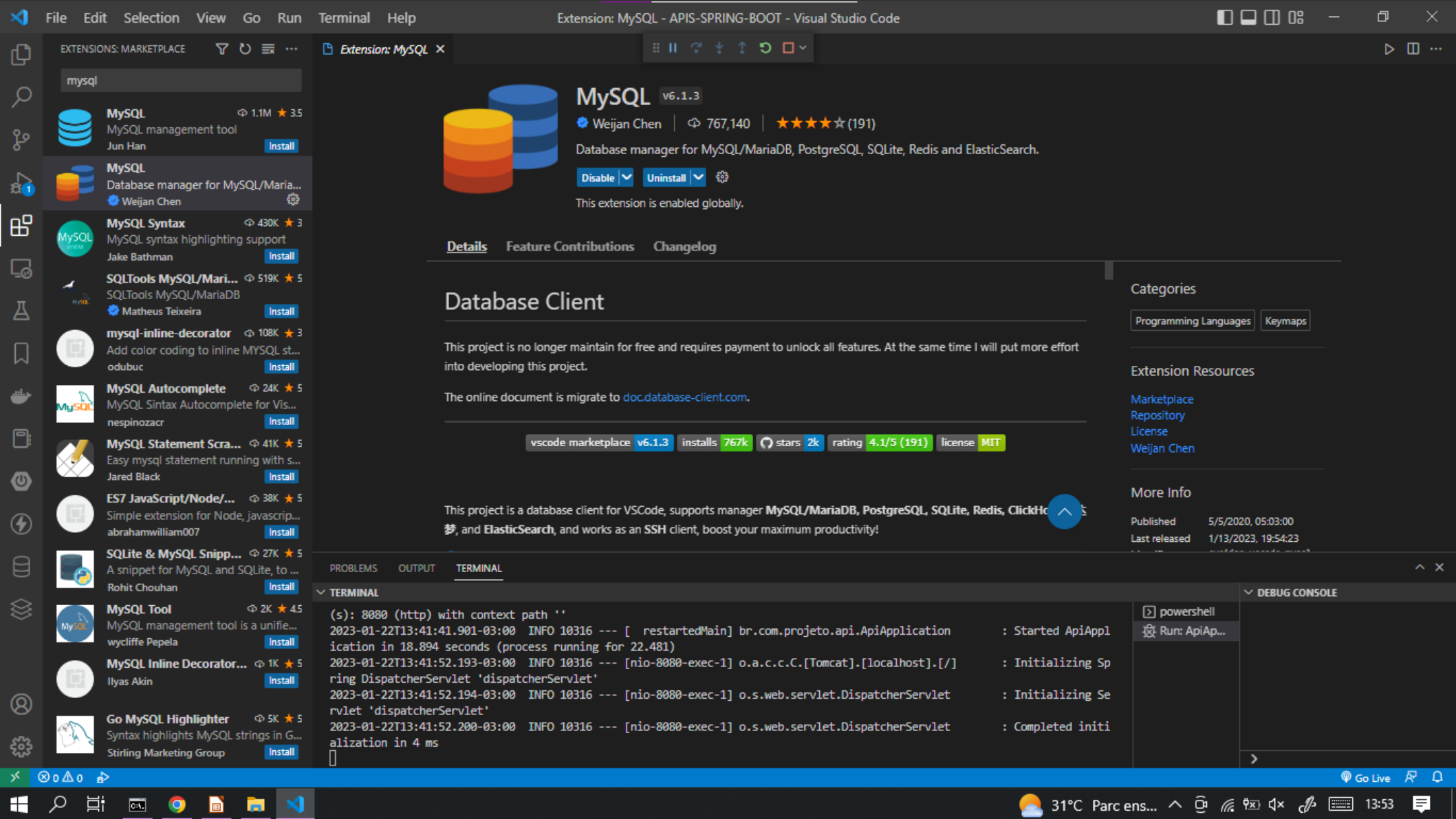

File Edit Selection View Go Run Terminal Help
localhost:8080 - APIS-SPRING-BOOT - Visual Studio Code
THUNDER CLIENT
New Request
Activity Collections Env
filter activity
POST localhost:8080
just now
ApiApplication.java
localhost:8080
POST http://localhost:8080/pessoa
Send
Query Headers 2 Auth Body 1 Tests Pre Run New
Json Xml Text Form Form-encode Graphql Binary
Json Content
Format
{
"nome":"Cristiano",
"idade":40
}
Status: 200 OK Size: 33 Bytes Time: 187 ms
Response Headers 4 Cookies Results Docs
{
"nome": "Cristiano",
"idade": "40"
}
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 : Started 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].[/] : Initializing Spring DispatcherServlet 'dispatcherServlet'
2023-01-22T13:41:52.194-03:00 INFO 10316 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Initializing Servlet 'dispatcherServlet'
2023-01-22T13:41:52.200-03:00 INFO 10316 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Completed initialization in 4 ms
powershell
Run: ApiAp...
DEBUG CONSOLE
Go Live
31°C Parc ens...
13:45

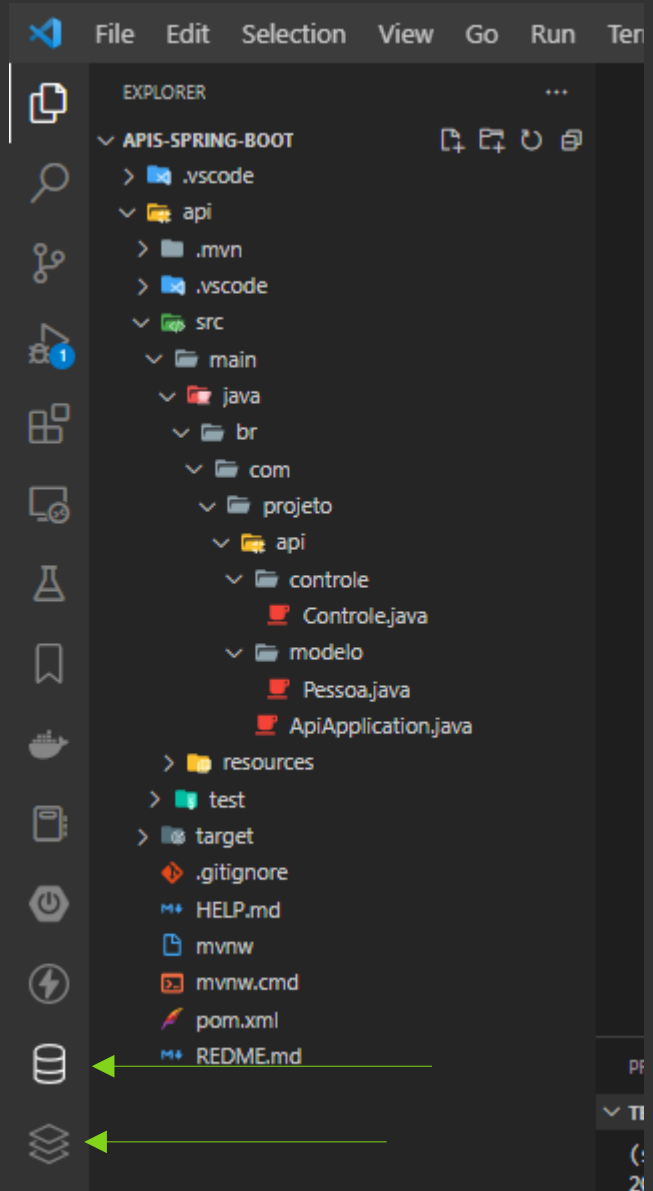
#10
Criando a base de dados

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

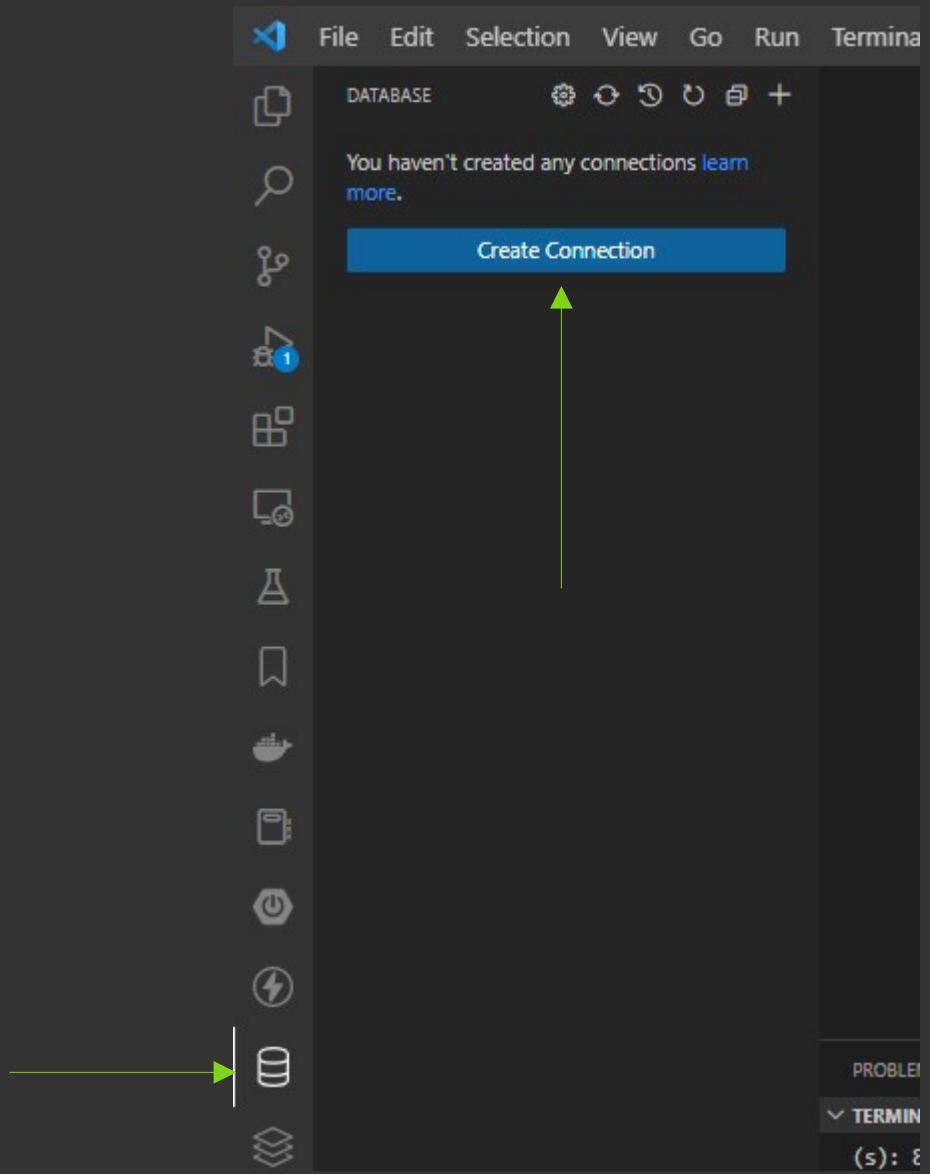


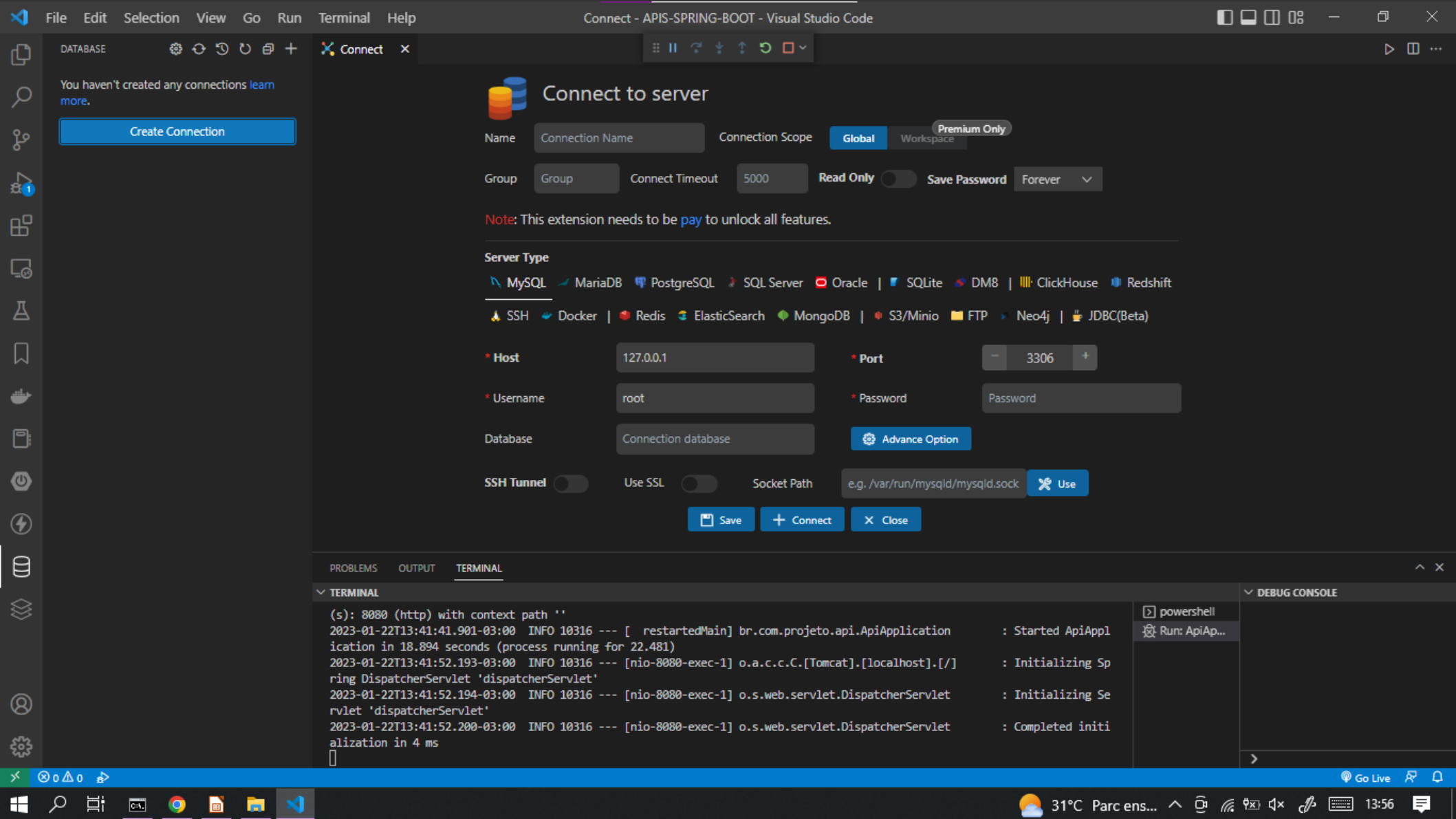
Va em extensões e instale essa extensão para o mysql

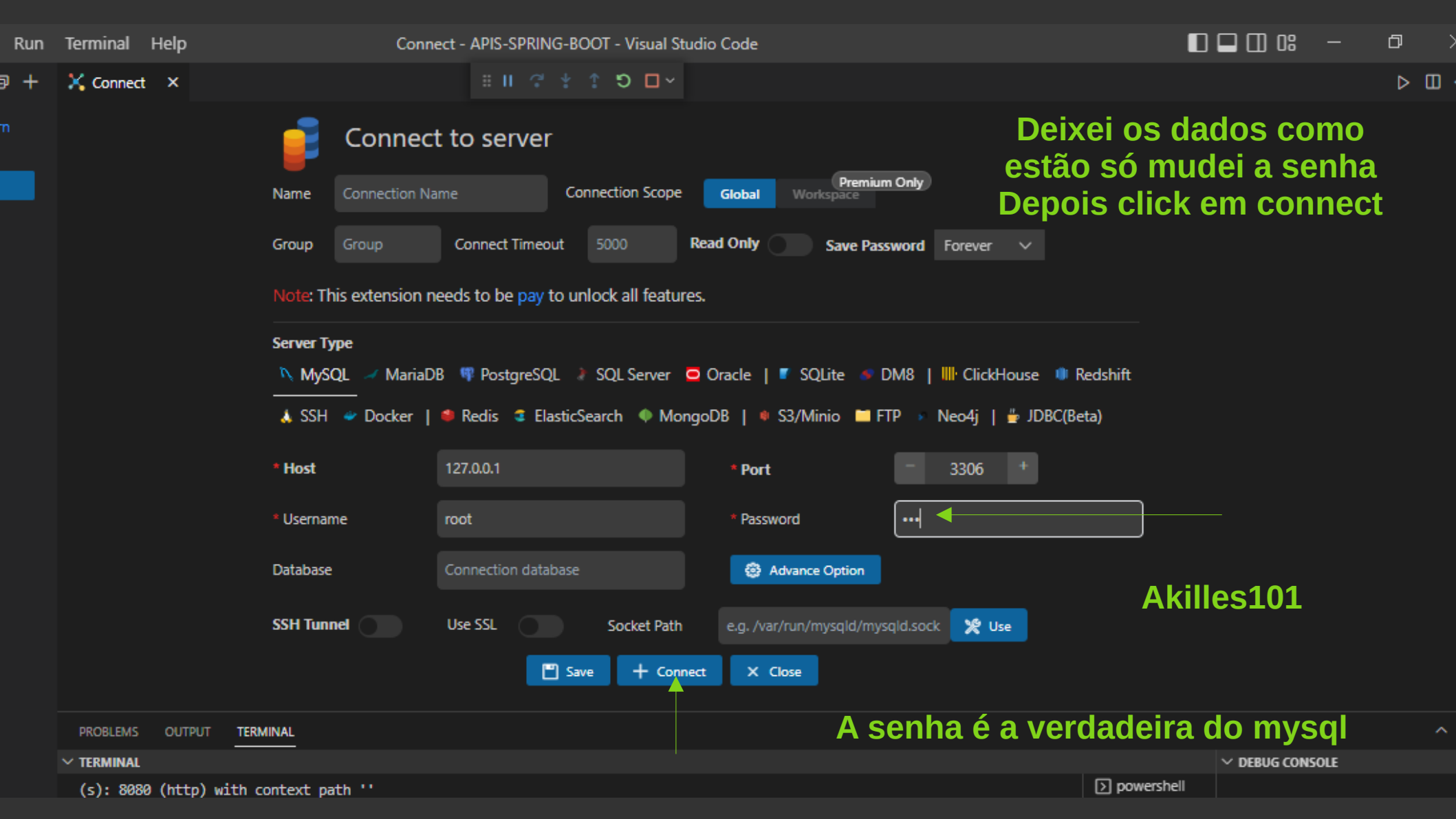

File Edit Selection View Go Run Terminal Help
Extension: MySQL - APIS-SPRING-BOOT - Visual Studio Code
EXTENSIONS: MARKETPLACE
mysql
MySQL 1.1M 3.5
MySQL management tool
Jun Han Install
MySQL
Database manager for MySQL/Maria...
Weijan Chen
MySQL Syntax 430K 3
MySQL syntax highlighting support
Jake Bathman Install
SQLTools MySQL/Mari... 519K 5
SQLTools MySQL/MariaDB
Matheus Teixeira Install
mysql-inline-decorator 108K 3
Add color coding to inline MYSQL st...
odubuc Install
MySQL Autocomplete 24K 5
MySQL Sintax Autocomplete for Vis...
nespinozacr Install
MySQL Statement Scra... 41K 5
Easy mysql statement running with s...
Jared Black Install
ES7 JavaScript/Node/... 38K 5
Simple extension for Node, javascrip...
abrahamwilliam007 Install
SQLite & MySQL Snipp... 27K 5
A snippet for MySQL and SQLite, to ...
Rohit Chouhan Install
MySQL Tool 2K 4.5
MySQL management tool is a unifie...
wycliffe Pepela Install
MySQL Inline Decorator... 1K 5
Ilyas Akin Install
Go MySQL Highlighter 5K 5
Syntax highlights MySQL strings in G...
Stirling Marketing Group Install
Extension: MySQL
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.
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, ClickHo 梦, and ElasticSearch, and works as an SSH client, boost your maximum productivity!
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
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
ring DispatcherServlet 'dispatcherServlet'
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...
DEBUG CONSOLE
Go Live
31°C Parc ens...
13:53

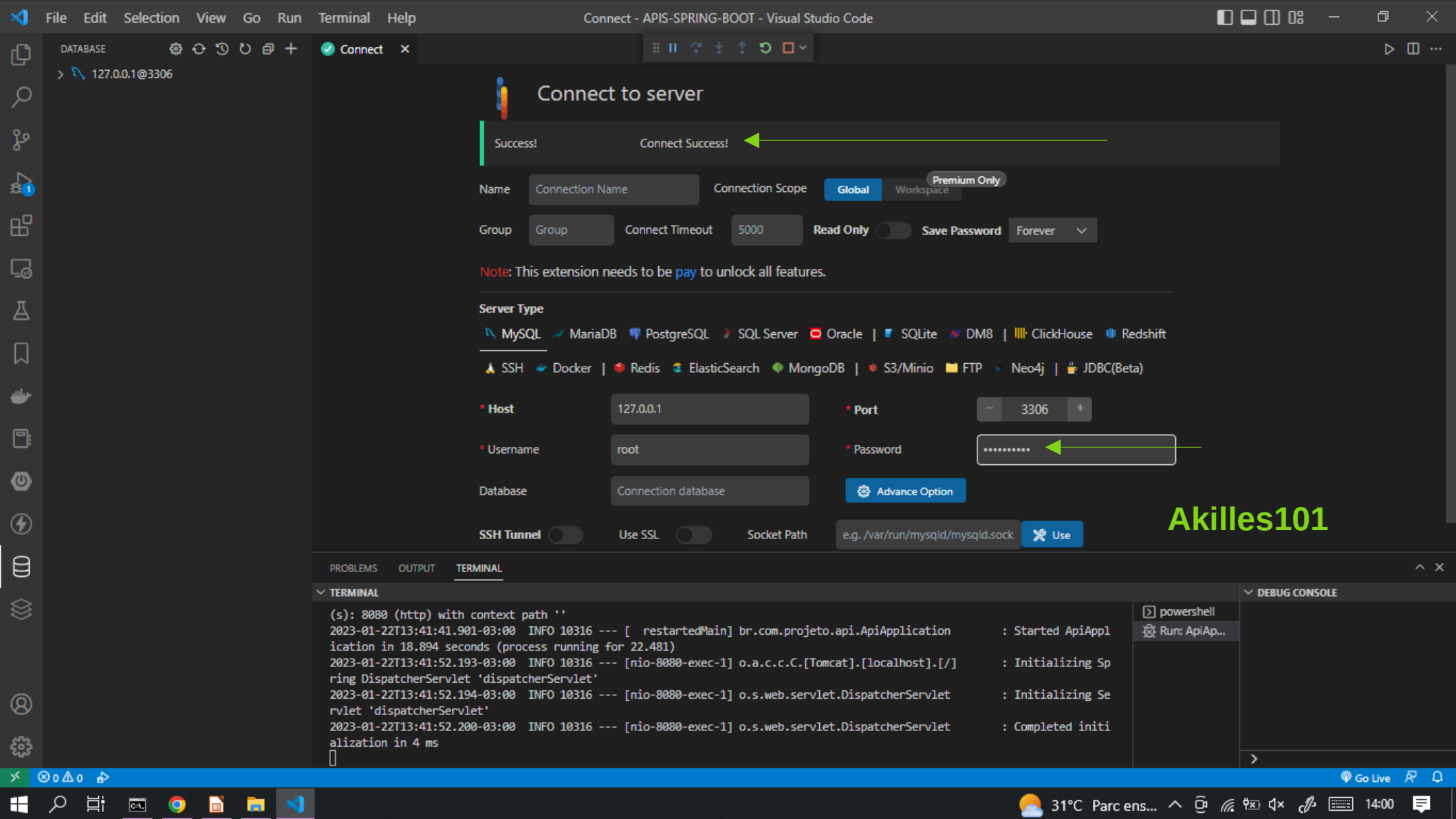


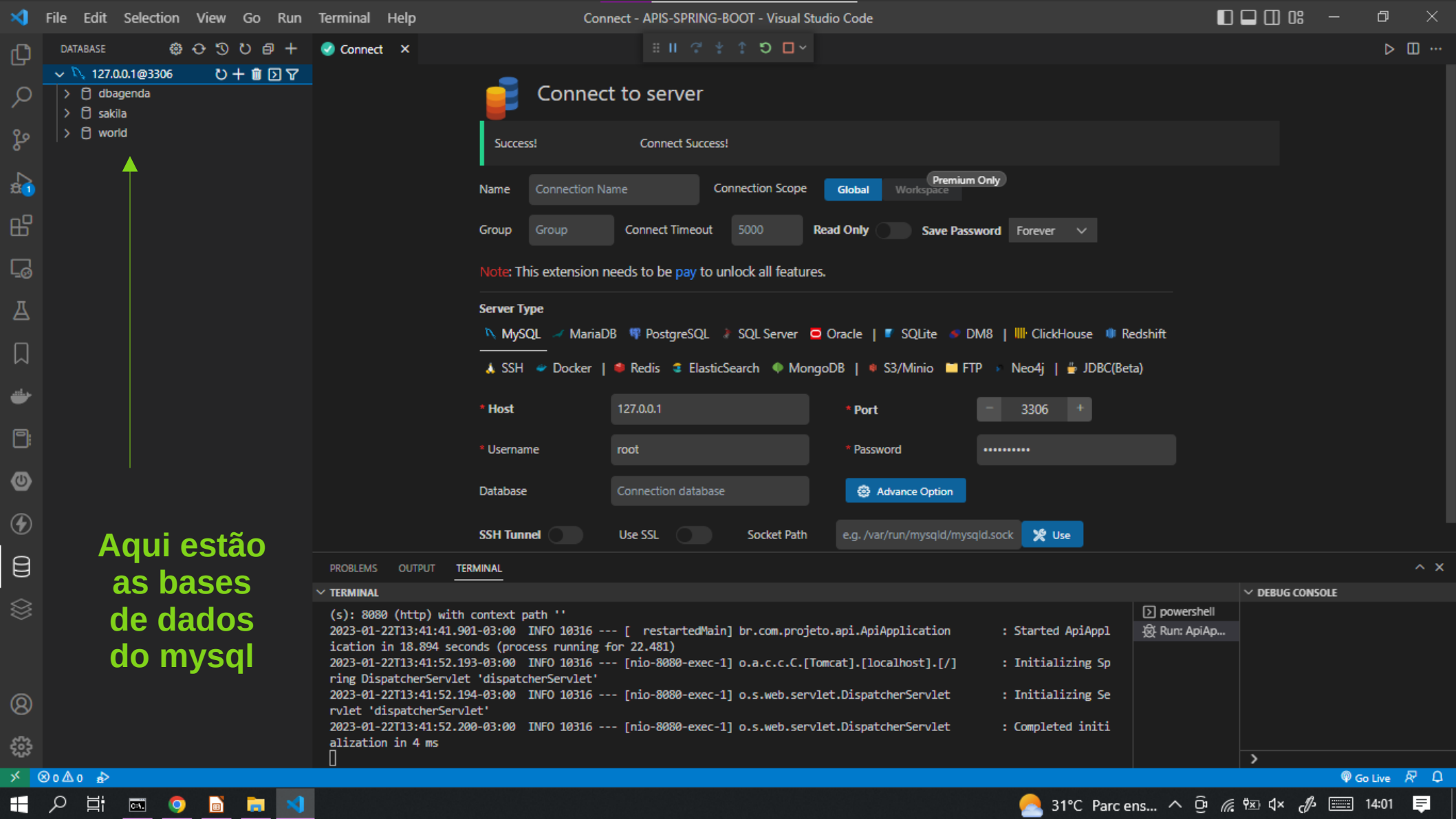
Ela cria 2 atalhos click no database


File Edit Selection View Go Run Termina
DATABASE
You haven't created any connections learn more.
Create Connection
PROBLE
TERMIN
(s): 8

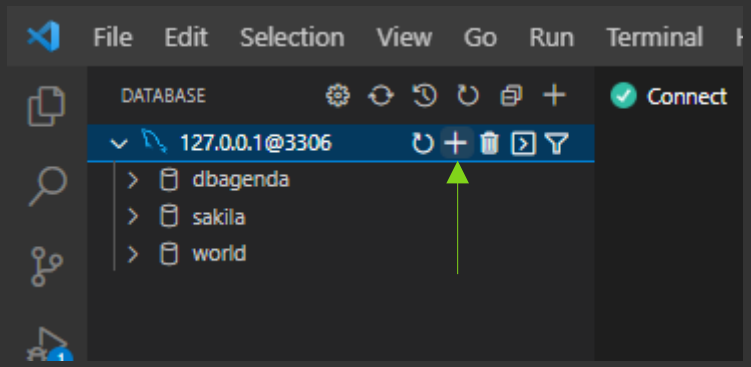

File Edit Selection View Go Run Terminal Help
Connect - APIS-SPRING-BOOT - Visual Studio Code
DATABASE
You haven't created any connections learn more.
Create Connection
Connect
Connect to server
Name
Connection Name
Connection Scope
Global
Workspace
Premium Only
Group
Group
Connect Timeout
5000
Read 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
Password
Database
Connection database
Advance Option
SSH Tunnel
Use SSL
Socket Path
e.g. /var/run/mysqld/mysqld.sock
Use
Save
Connect
Close
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
ring DispatcherServlet 'dispatcherServlet'
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...
DEBUG CONSOLE
Go Live
31°C Parc ens...
13:56


Run Terminal Help
Connect - APIS-SPRING-BOOT - Visual Studio Code
Connect
Connect to server
Deixei os dados como estão só mudei a senha
Depois click em connect
Name
Connection Name
Connection Scope
Global
Workspace
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
Akilles101
SSH Tunnel
Use SSL
Socket Path
e.g. /var/run/mysqld/mysqld.sock
Use
Save
Connect
Close
A senha é a verdadeira do mysql
PROBLEMS OUTPUT TERMINAL
TERMINAL
DEBUG CONSOLE
(s): 8080 (http) with context path ''
powershell

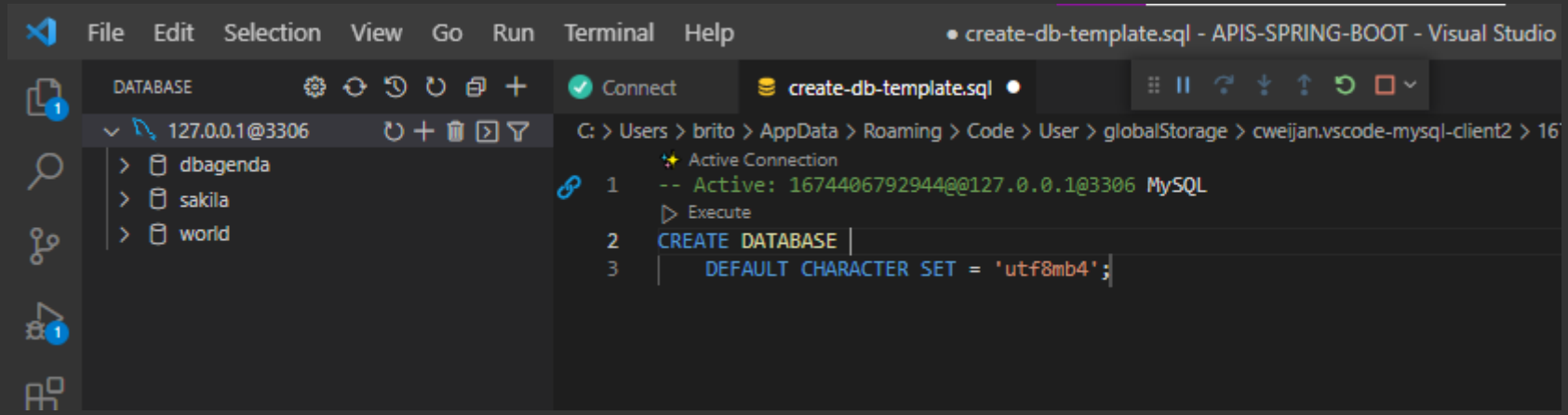

File Edit Selection View Go Run Terminal Help
Connect - APIS-SPRING-BOOT - Visual Studio Code
DATABASE
127.0.0.1@3306
Connect
Connect to server
Success!
Connect Success!
Name
Connection Name
Connection Scope
Global
Workspace
Premium Only
Group
Group
Connect Timeout
5000
Read Only
Save Password
Forever
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/mysqld/mysqld.sock
Use
Akilles101
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
ring DispatcherServlet 'dispatcherServlet'
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...
DEBUG CONSOLE
Go Live
31°C Parc ens...
14:00

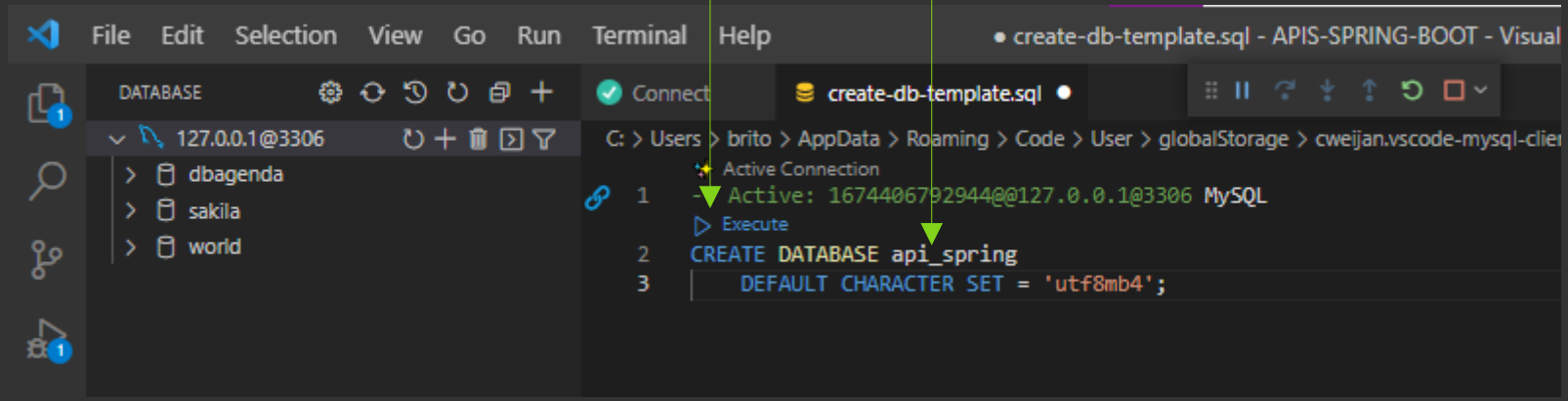


Aqui estão as bases de dados do mysql

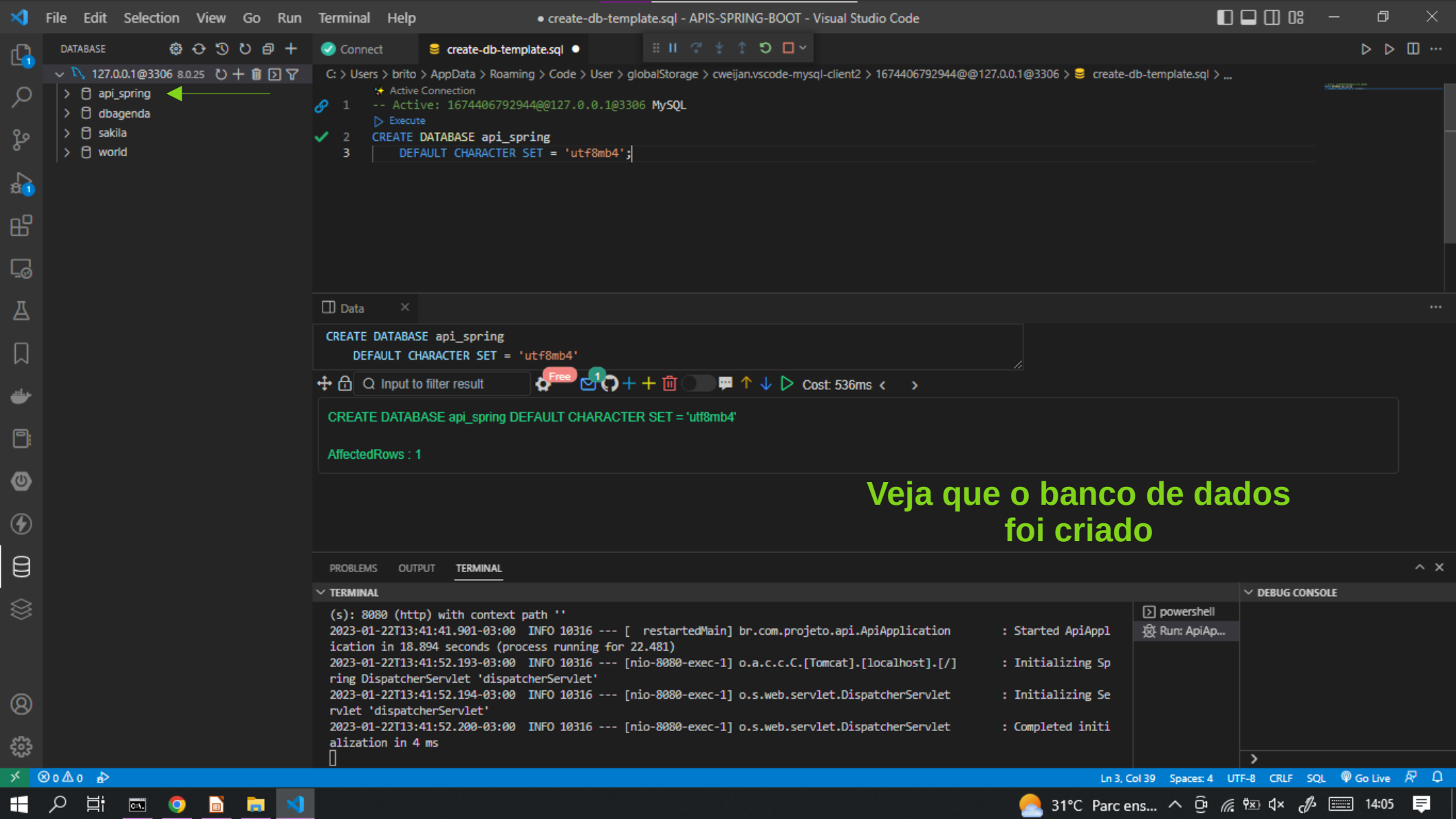


Click no sinal de + para criar o banco de dados


File Edit Selection View Go Run Terminal Help
• create-db-template.sql - APIS-SPRING-BOOT - Visual Studio
DATABASE
127.0.0.1@3306
dbagenda
sakila
world
Connect
create-db-template.sql
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';

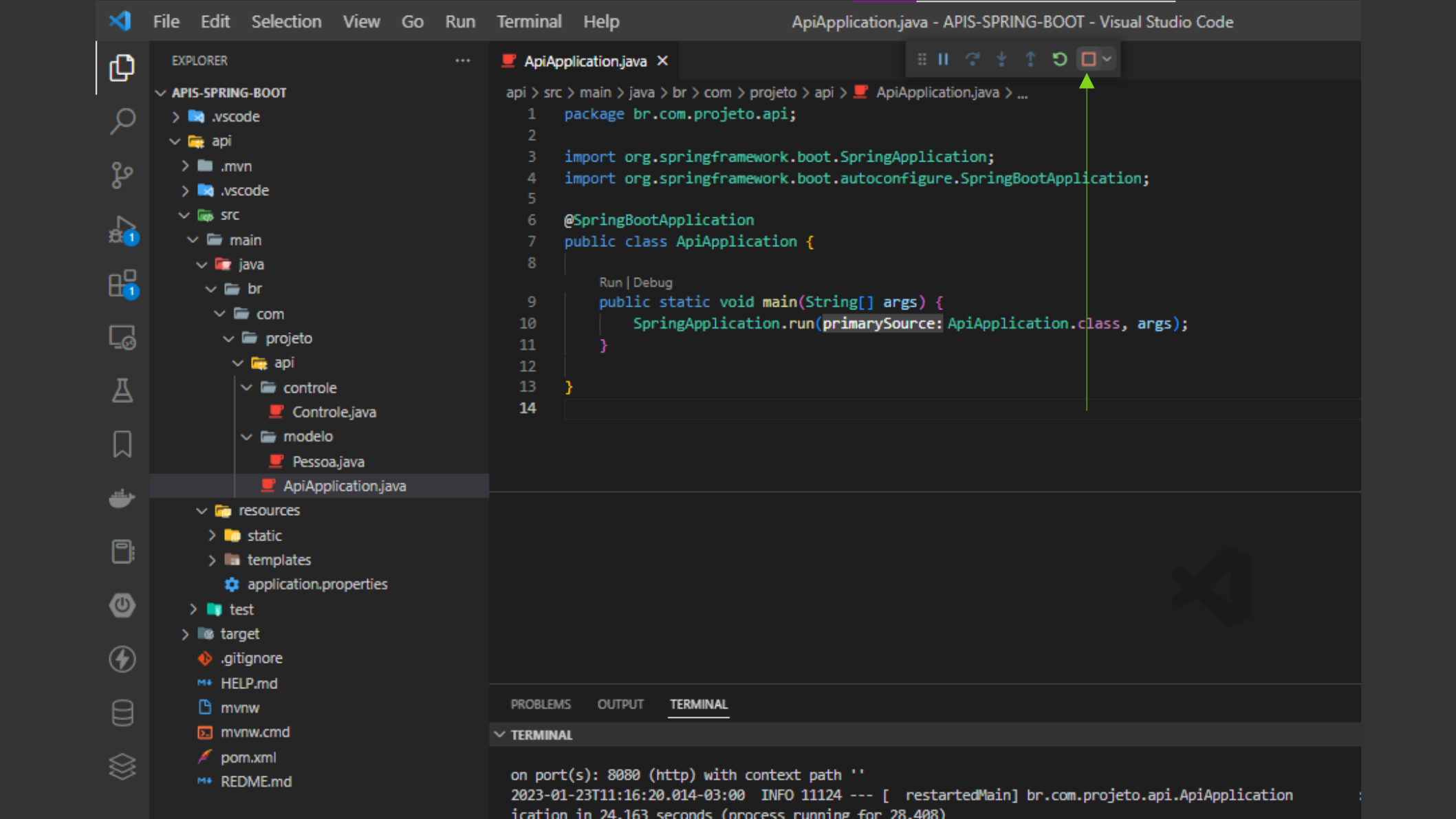


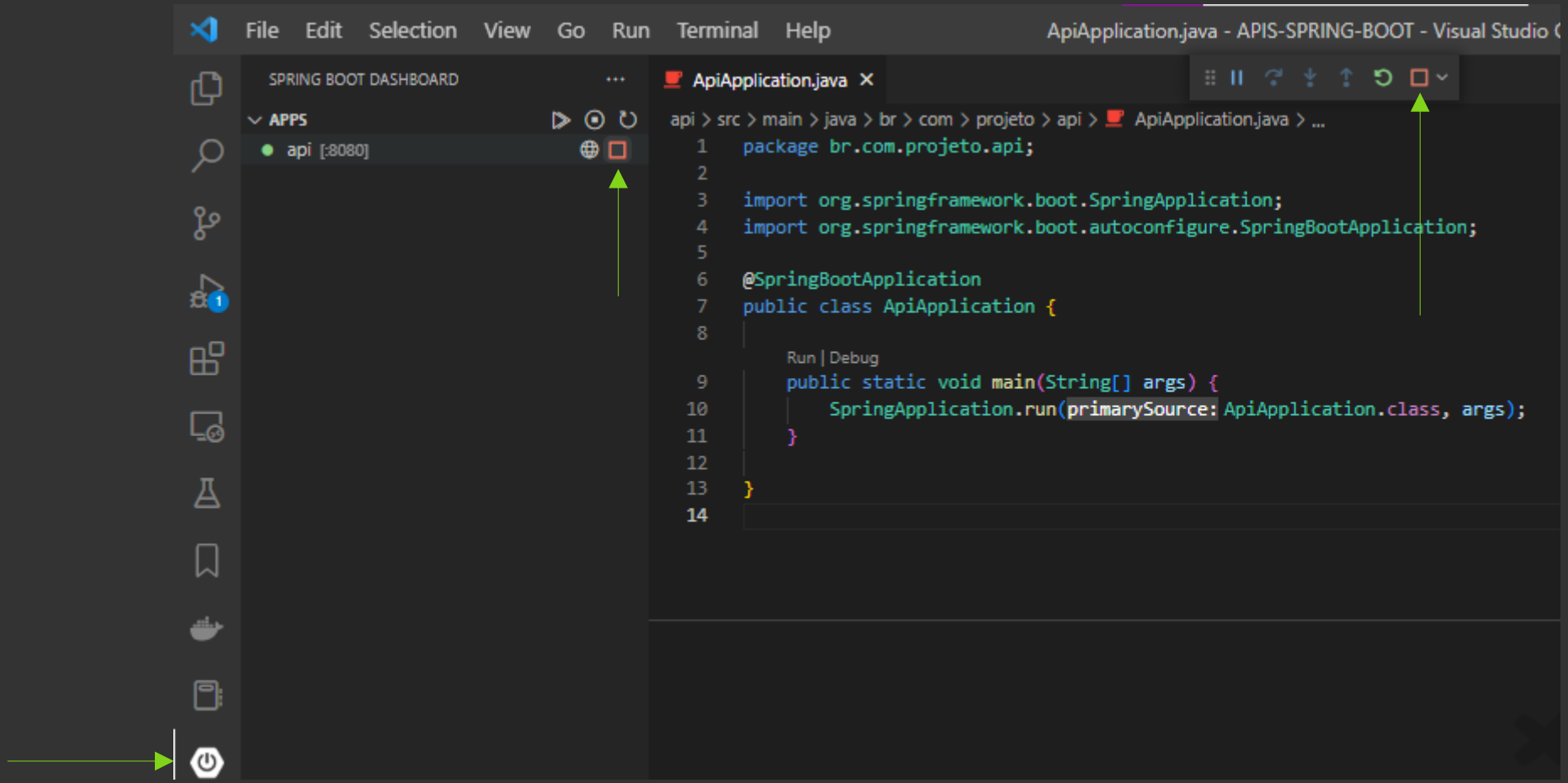
Depois de dar nome api_spring click em execute


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
api_spring
dbagenda
sakila
world
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
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
ring DispatcherServlet 'dispatcherServlet'
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...
DEBUG CONSOLE
Ln 3, Col 39 Spaces: 4 UTF-8 CRLF SQL Go Live
31°C Parc ens...
14:05

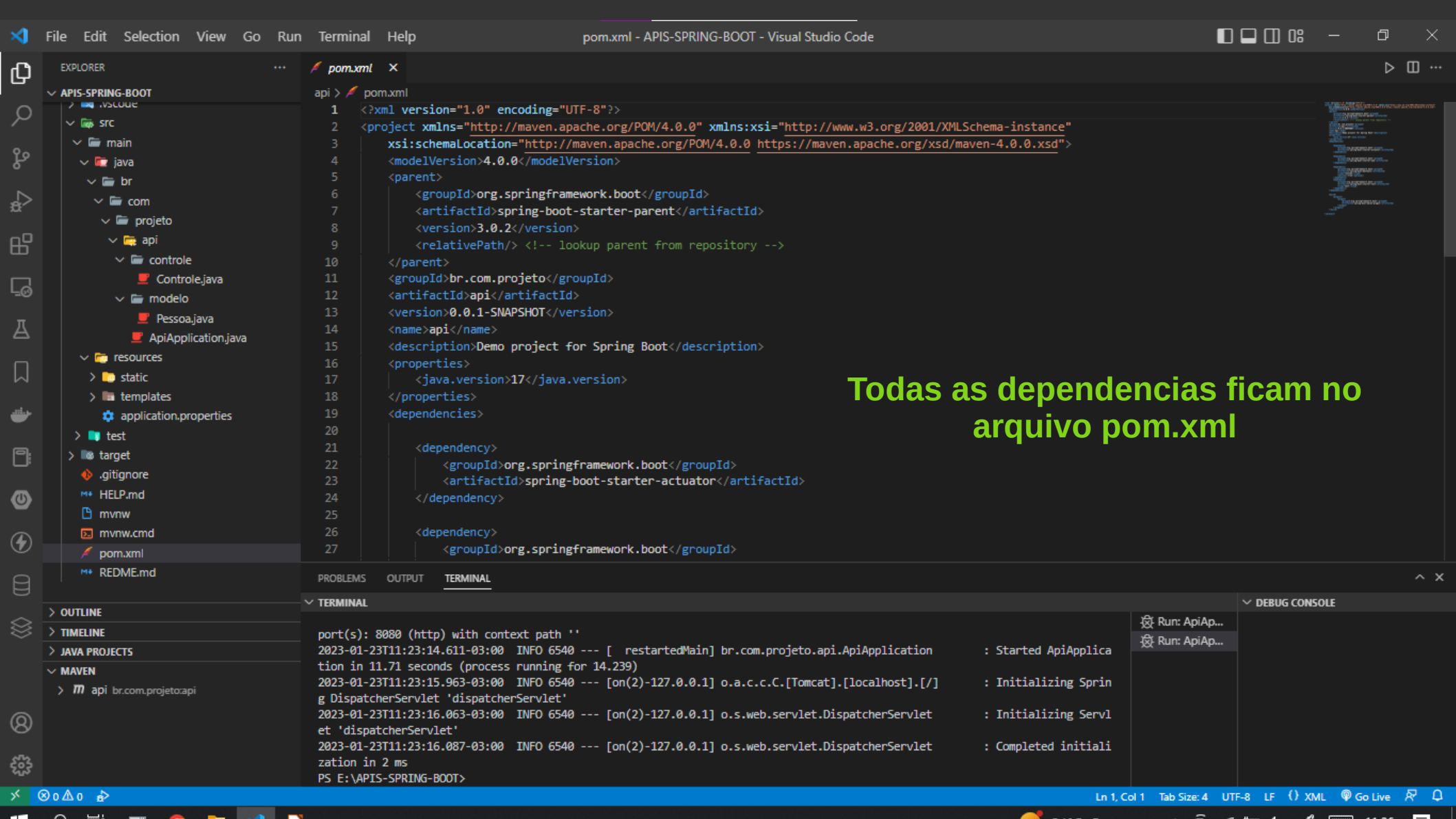
#11
IMPLEMENTANDO DEPENDENCIAS

Feche o servidor mysql e o servidor
Quando o servidor está funcionando posso atualizar ou baixar dependencias? não


File Edit Selection View Go Run Terminal Help
ApiApplication.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
modelo
Pessoa.java
ApiApplication.java
resources
static
templates
application.properties
test
target
.gitignore
HELP.md
mvnw
mvnw.cmd
pom.xml
REDME.md
ApiApplication.java
api > 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
PROBLEMS OUTPUT TERMINAL
TERMINAL
on port(s): 8080 (http) with context path ''
2023-01-23T11:16:20.014-03:00 INFO 11124 --- [restartedMain] br.com.projeto.api.ApiApplication
ication in 24.163 seconds (process running for 28.408)

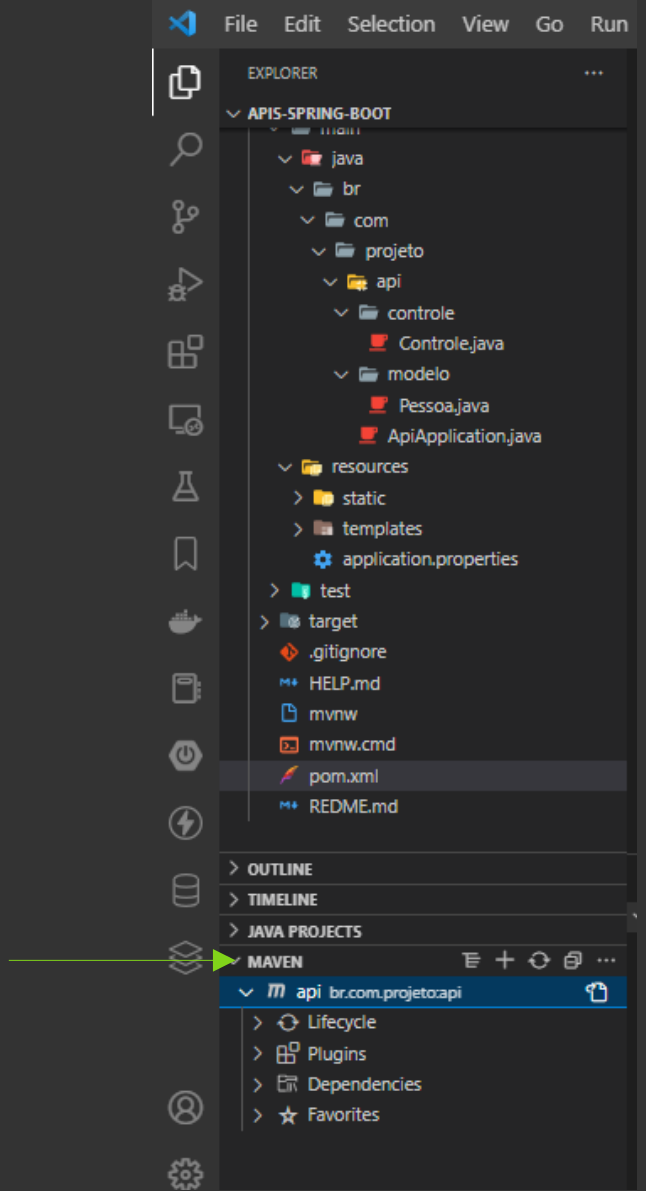


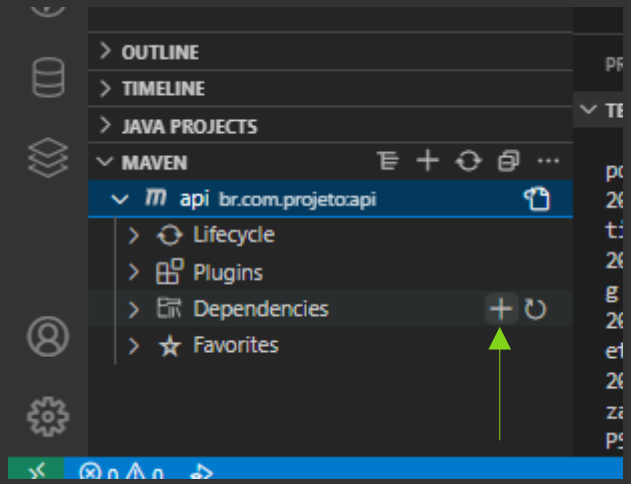
Qualuer uma das 2 opções finaliza o servidor


File Edit Selection View Go Run Terminal Help
pom.xml - APIS-SPRING-BOOT - Visual Studio Code
EXPLORER
APIS-SPRING-BOOT
src
main
java
br
com
projeto
api
controle
Controle.java
modelo
Pessoa.java
ApiApplication.java
resources
static
templates
application.properties
test
target
.gitignore
HELP.md
mvnw
mvnw.cmd
pom.xml
REDME.md
pom.xml
api > pom.xml
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">
<modelVersion>4.0.0</modelVersion>
<parent>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-parent</artifactId>
<version>3.0.2</version>
<relativePath/> <!-- lookup parent from repository -->
</parent>
<groupId>br.com.projeto</groupId>
<artifactId>api</artifactId>
<version>0.0.1-SNAPSHOT</version>
<name>api</name>
<description>Demo project for Spring Boot</description>
<properties>
<java.version>17</java.version>
</properties>
<dependencies>
<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-actuator</artifactId>
</dependency>
<dependency>
<groupId>org.springframework.boot</groupId>
Todas as dependencias ficam no arquivo pom.xml
PROBLEMS OUTPUT TERMINAL
TERMINAL
port(s): 8080 (http) with context path ''
2023-01-23T11:23:14.611-03:00 INFO 6540 --- [restartedMain] br.com.projeto.api.ApiApplication : Started ApiApplication in 11.71 seconds (process running for 14.239)
2023-01-23T11:23:15.963-03:00 INFO 6540 --- [on(2)-127.0.0.1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring DispatcherServlet 'dispatcherServlet'
2023-01-23T11:23:16.063-03:00 INFO 6540 --- [on(2)-127.0.0.1] o.s.web.servlet.DispatcherServlet : Initializing Servlet 'dispatcherServlet'
2023-01-23T11:23:16.087-03:00 INFO 6540 --- [on(2)-127.0.0.1] o.s.web.servlet.DispatcherServlet : Completed initialization in 2 ms
PS E:\APIS-SPRING-BOOT>
Run: ApiAp...
Run: ApiAp...
DEBUG CONSOLE
OUTLINE
TIMELINE
JAVA PROJECTS
MAVEN
api br.com.projeto:api
Ln 1, Col 1 Tab Size: 4 UTF-8 LF XML Go Live

ADICIONANDO AS DEPENDÊNCIAS

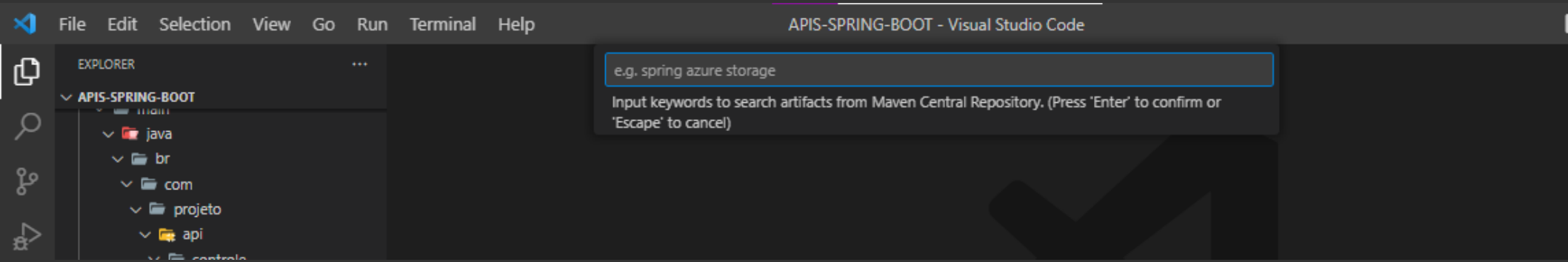
O QUE É O MAVEN?
Responsavel por gerenciar os pacotes do spring



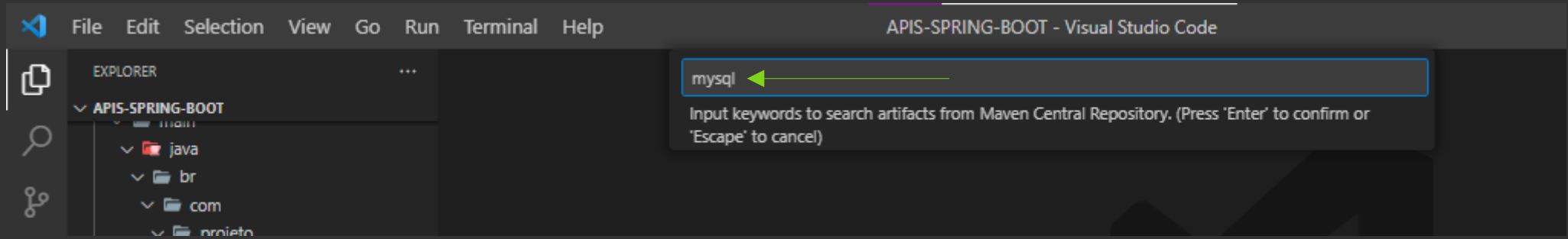


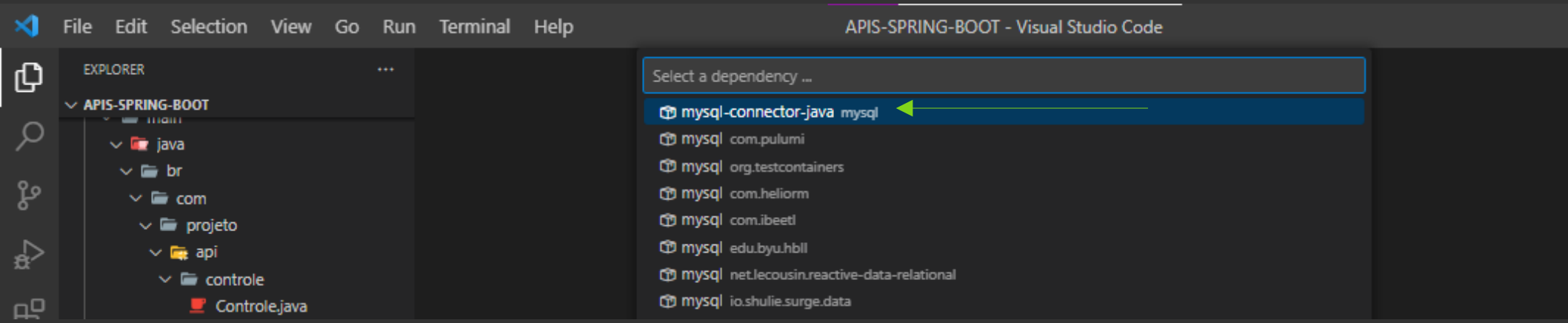
Click no sinal de +

Abre um popup que pede keyords
O que são keywords? Palavras chaves



Digite mysql e tecle enter




File Edit Selection View Go Run Terminal Help
APIS-SPRING-BOOT - Visual Studio Code
EXPLORER
APIS-SPRING-BOOT
java
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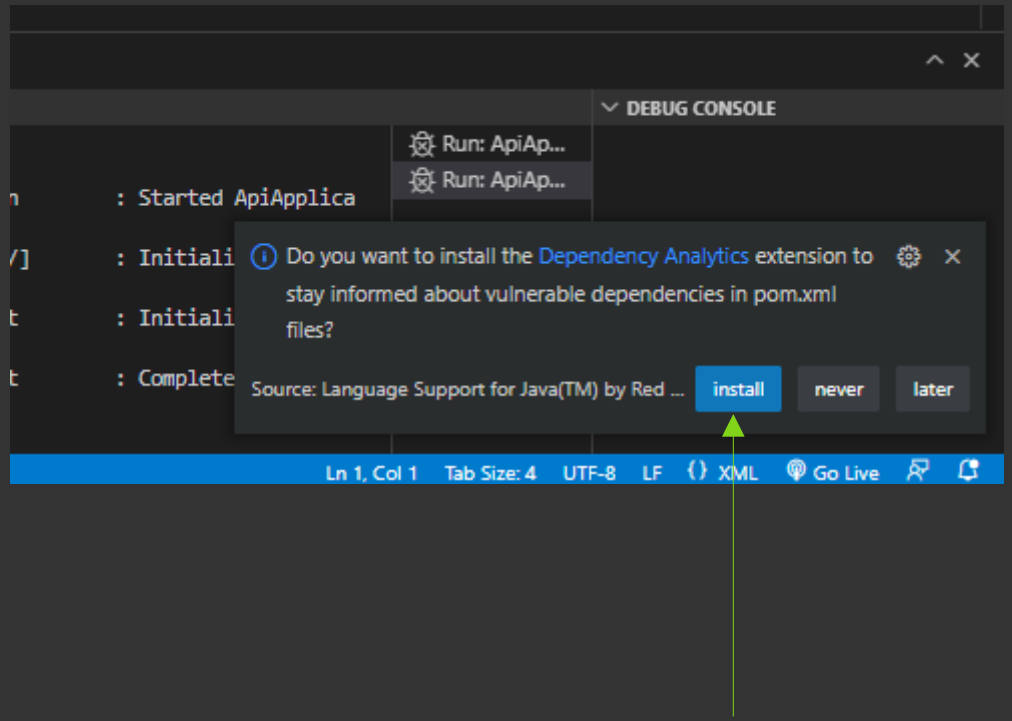
controle
Controle.java
Select a dependency ...
mysql-connector-java mysql
mysql com.pulumi
mysql org.testcontainers
mysql com.heliorm
mysql com.ibeetl
mysql edu.byu.hbll
mysql net.lecousin.reactive-data-relational
mysql io.shulie.surge.data


DEBUG CONSOLE
Run: ApiAp...
Run: ApiAp...
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: Initiali
: Initiali
: Complete
Do you want to install the Dependency Analytics extension to stay informed about vulnerable dependencies in pom.xml files?
Source: Language Support for Java(TM) by Red ...
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Ln 1, Col 1
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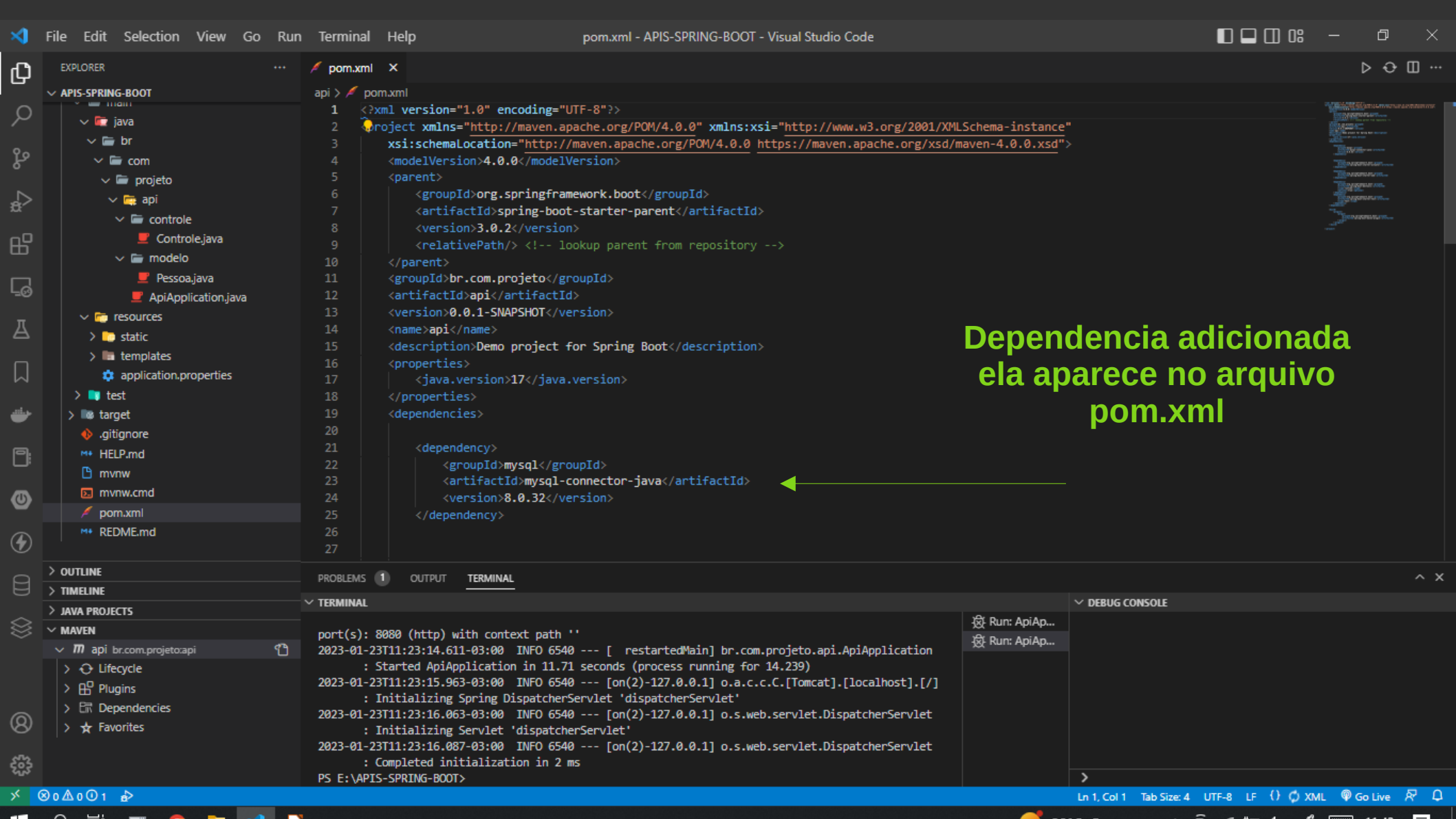
UTF-8
LF
XML
Go Live


File Edit Selection View Go Run Terminal Help
pom.xml - APIS-SPRING-BOOT - Visual Studio Code
EXPLORER
APIS-SPRING-BOOT
java
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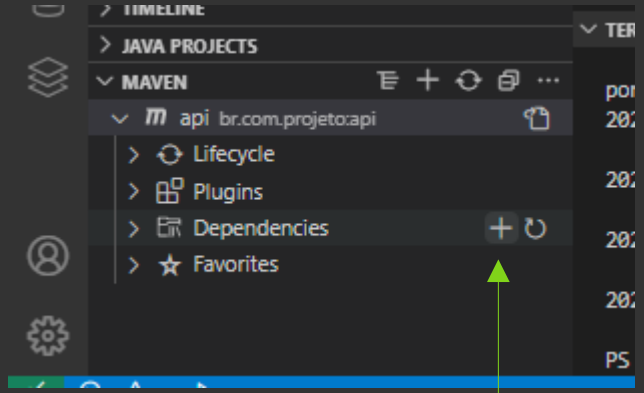
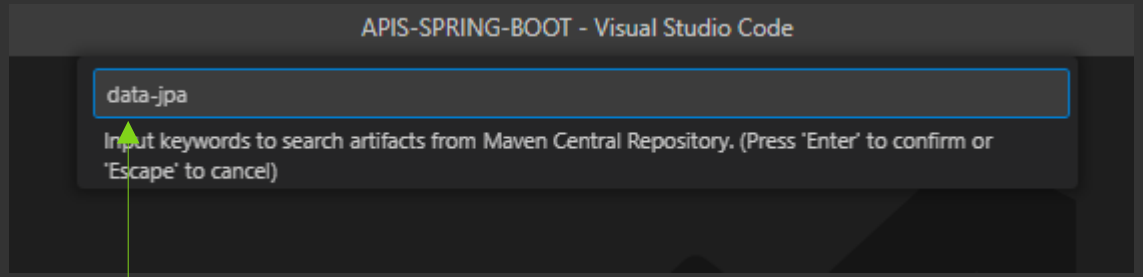
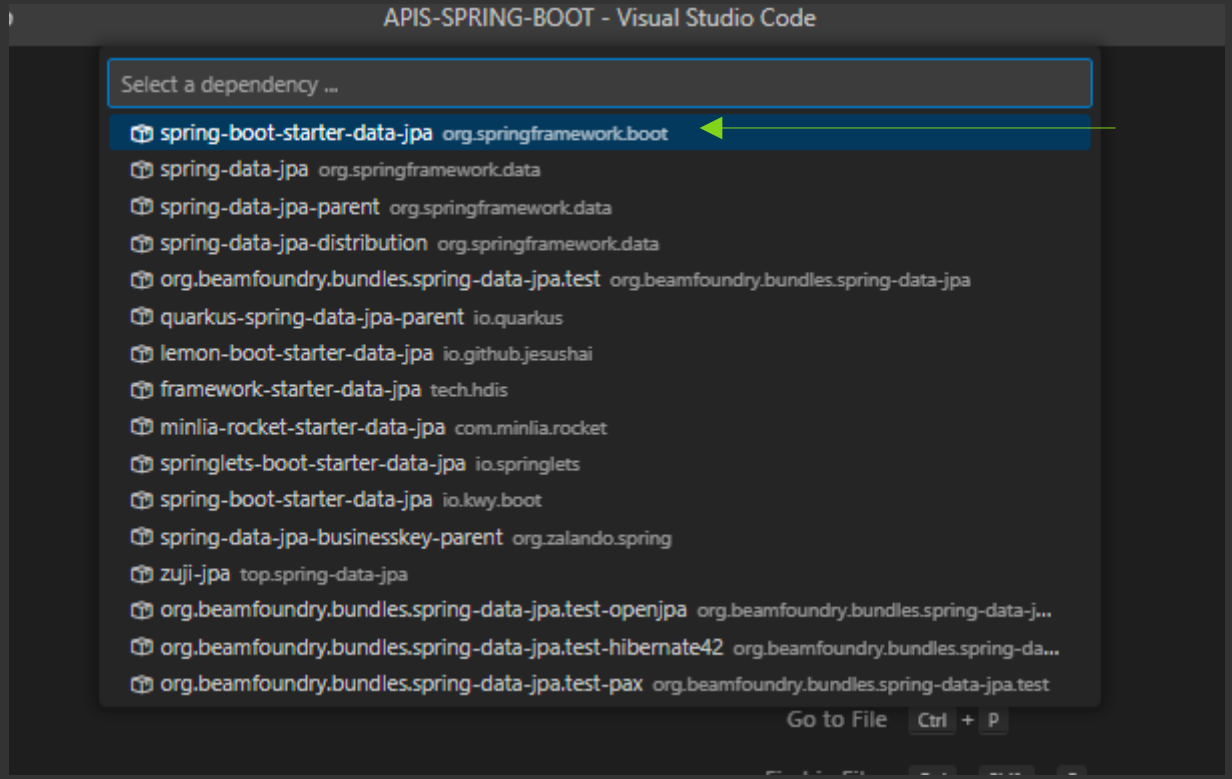
.gitignore
HELP.md
mvnw
mvnw.cmd
pom.xml
REDME.md
pom.xml
api > pom.xml
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">
<modelVersion>4.0.0</modelVersion>
<parent>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-parent</artifactId>
<version>3.0.2</version>
<relativePath/> <!-- lookup parent from repository -->
</parent>
<groupId>br.com.projeto</groupId>
<artifactId>api</artifactId>
<version>0.0.1-SNAPSHOT</version>
<name>api</name>
<description>Demo project for Spring Boot</description>
<properties>
<java.version>17</java.version>
</properties>
<dependencies>
<dependency>
<groupId>mysql</groupId>
<artifactId>mysql-connector-java</artifactId>
<version>8.0.32</version>
</dependency>
Dependencia adicionada
ela aparece no arquivo
pom.xml
OUTLINE
TIMELINE
JAVA PROJECTS
MAVEN
api br.com.projeto:api
Lifecycle
Plugins
Dependencies
Favorites
PROBLEMS 1
OUTPUT
TERMINAL
TERMINAL
port(s): 8080 (http) with context path ''
2023-01-23T11:23:14.611-03:00 INFO 6540 --- [restartedMain] br.com.projeto.api.ApiApplication
: Started ApiApplication in 11.71 seconds (process running for 14.239)
2023-01-23T11:23:15.963-03:00 INFO 6540 --- [on(2)-127.0.0.1] o.a.c.c.C.[Tomcat].[localhost].[/]
: Initializing Spring DispatcherServlet 'dispatcherServlet'
2023-01-23T11:23:16.063-03:00 INFO 6540 --- [on(2)-127.0.0.1] o.s.web.servlet.DispatcherServlet
: Initializing Servlet 'dispatcherServlet'
2023-01-23T11:23:16.087-03:00 INFO 6540 --- [on(2)-127.0.0.1] o.s.web.servlet.DispatcherServlet
: Completed initialization in 2 ms
PS E:\APIS-SPRING-BOOT>
Run: ApiAp...
Run: ApiAp...
DEBUG CONSOLE
Ln 1, Col 1 Tab Size: 4 UTF-8 LF XML Go Live

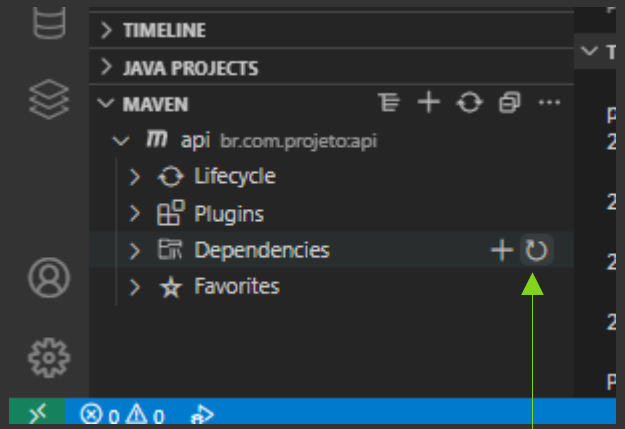
Essa dependencia serve para dar acesso ao banco de dados
Vamos agora instalar a dependencia jpa





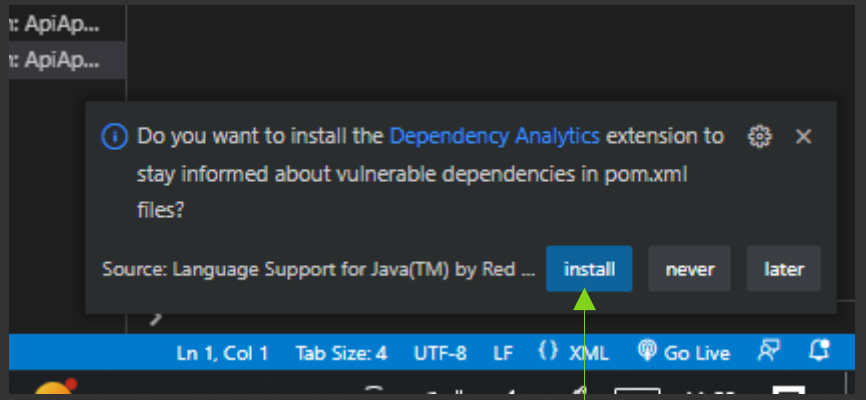
Repita os passos digite data-jpa e tecle enter

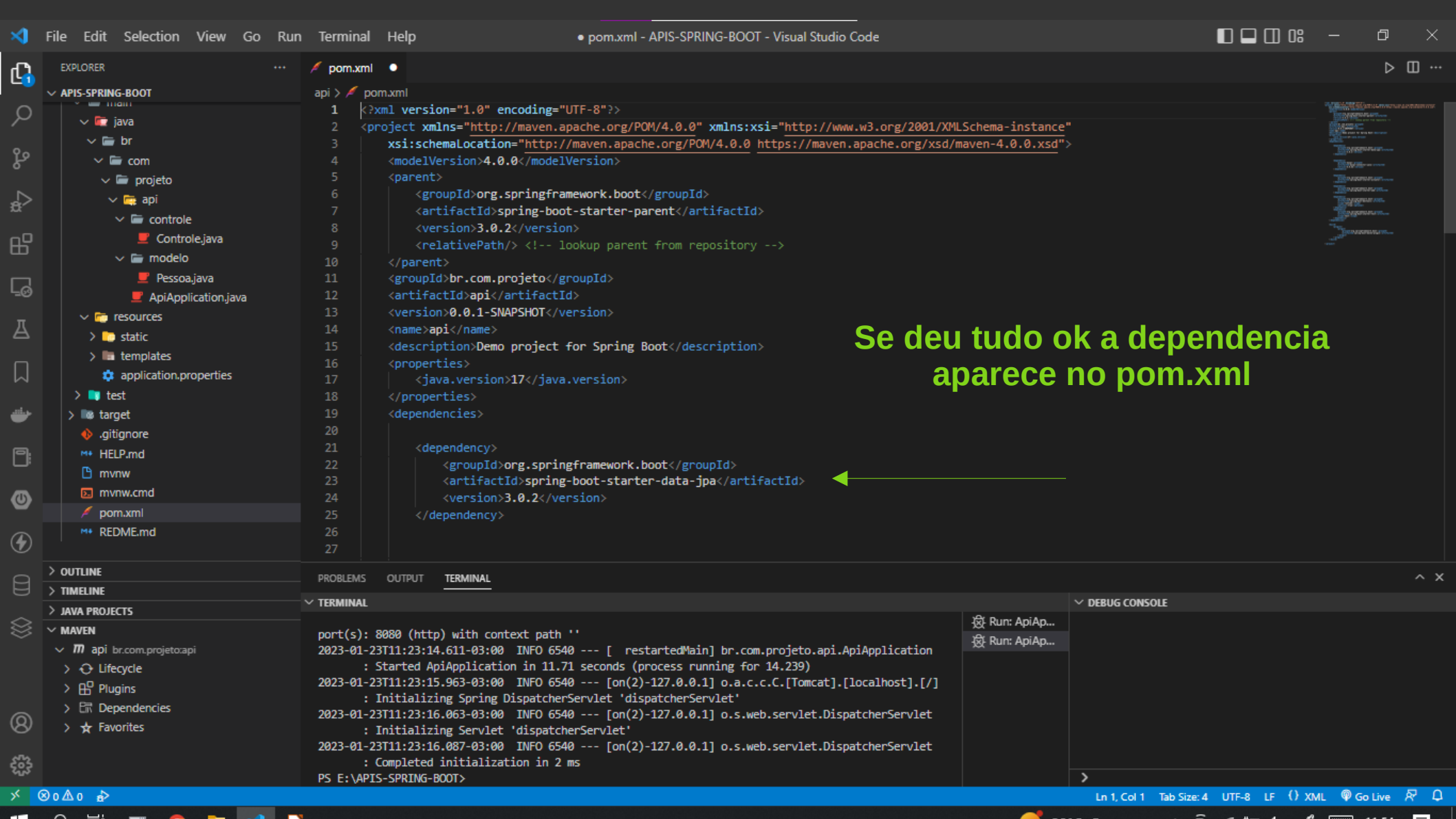

APIS-SPRING-BOOT - Visual Studio Code
Select a dependency ...
spring-boot-starter-data-jpa org.springframework.boot
spring-data-jpa org.springframework.data
spring-data-jpa-parent org.springframework.data
spring-data-jpa-distribution org.springframework.data
org.beamfoundry.bundles.spring-data-jpa.test org.beamfoundry.bundles.spring-data-jpa
quarkus-spring-data-jpa-parent io.quarkus
lemon-boot-starter-data-jpa io.github.jesushai
framework-starter-data-jpa tech.hdis
minlia-rocket-starter-data-jpa com.minlia.rocket
springlets-boot-starter-data-jpa io.springlets
spring-boot-starter-data-jpa io.kwy.boot
spring-data-jpa-businesskey-parent org.zalando.spring
zuji-jpa top.spring-data-jpa
org.beamfoundry.bundles.spring-data-jpa.test-openjpa org.beamfoundry.bundles.spring-data-j...
org.beamfoundry.bundles.spring-data-jpa.test-hibernate42 org.beamfoundry.bundles.spring-da...
org.beamfoundry.bundles.spring-data-jpa.test-pax org.beamfoundry.bundles.spring-data-jpa.test
Go to File Ctrl + P



Se não estiver baixando tente um refresh

Repita os passos para baixar a dependencia depois do refresh




File Edit Selection View Go Run Terminal Help
• pom.xml - APIS-SPRING-BOOT - Visual Studio Code
EXPLORER
APIS-SPRING-BOOT
java
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ApiApplication.java
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templates
application.properties
test
target
.gitignore
HELP.md
mvnw
mvnw.cmd
pom.xml
REDME.md
pom.xml
api > pom.xml
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">
<modelVersion>4.0.0</modelVersion>
<parent>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-parent</artifactId>
<version>3.0.2</version>
<relativePath/> <!-- lookup parent from repository -->
</parent>
<groupId>br.com.projeto</groupId>
<artifactId>api</artifactId>
<version>0.0.1-SNAPSHOT</version>
<name>api</name>
<description>Demo project for Spring Boot</description>
<properties>
<java.version>17</java.version>
</properties>
<dependencies>
<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-data-jpa</artifactId>
<version>3.0.2</version>
</dependency>
Se deu tudo ok a dependencia aparece no pom.xml
PROBLEMS OUTPUT TERMINAL
TERMINAL
port(s): 8080 (http) with context path ''
2023-01-23T11:23:14.611-03:00 INFO 6540 --- [restartedMain] br.com.projeto.api.ApiApplication
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: Completed initialization in 2 ms
PS E:\APIS-SPRING-BOOT>
Run: ApiAp...
Run: ApiAp...
DEBUG CONSOLE
OUTLINE
TIMELINE
JAVA PROJECTS
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api br.com.projeto:api
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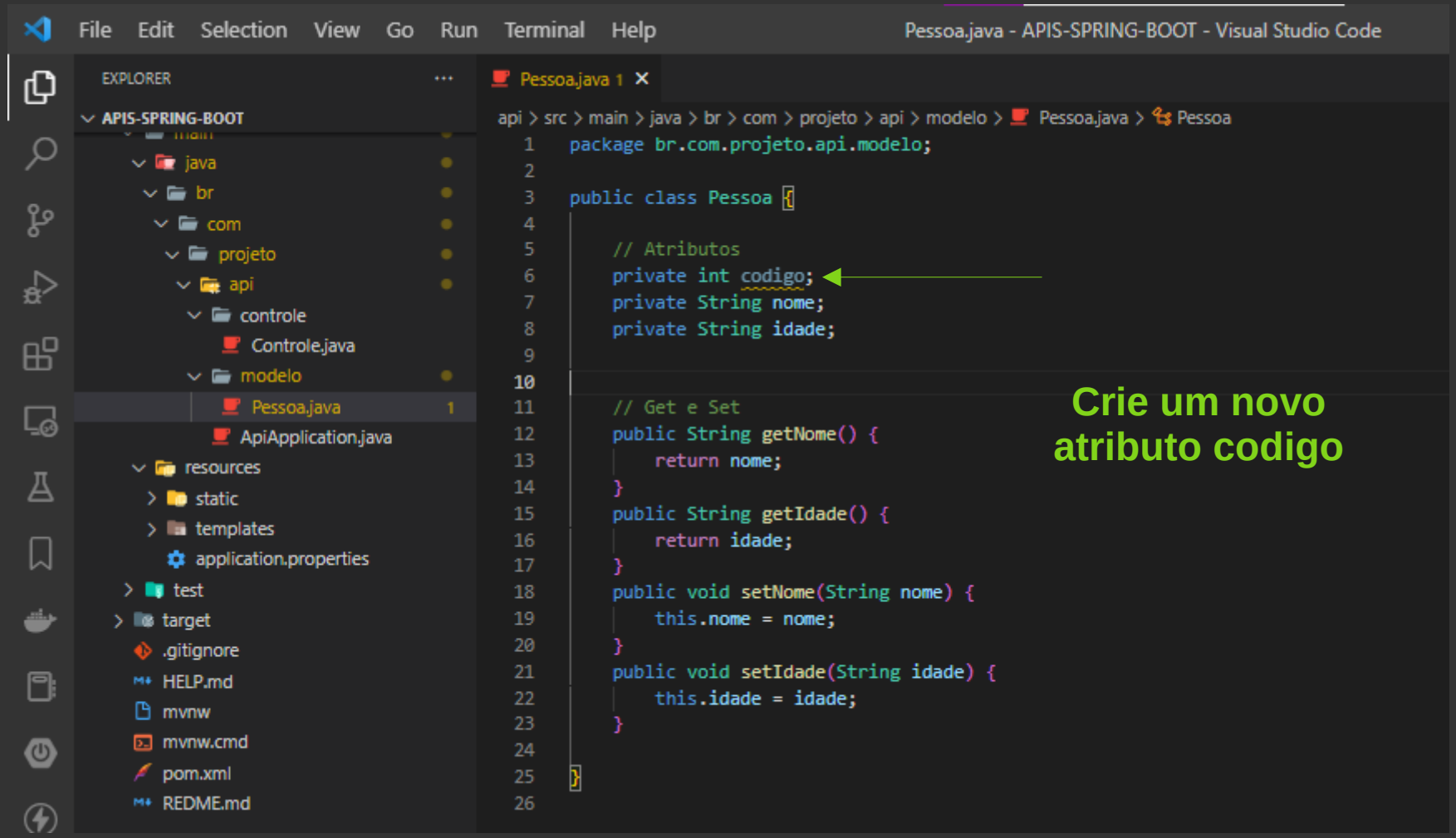
Favorites
Ln 1, Col 1 Tab Size: 4 UTF-8 LF XML Go Live

Existe outro jeito de instalar dependencias?
Sim sopie e cole elas dentro do arquivo pom.xml
Ex:

```
<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-data-jpa</artifactId>
<version>3.0.2</version>
</dependency>
```

Adicionando assim temos ela instalada
Não esqueça de salvar o arquivo pom.xml depois de instalar a dependencia
Essas duas dependencias já nos da o acesso ao banco de dados e ao jpa

#12
Configurando o modelo pessoa pra gerar tabelas


File Edit Selection View Go Run Terminal Help
Pessoa.java - APIS-SPRING-BOOT - Visual Studio Code
EXPLORER
APIS-SPRING-BOOT
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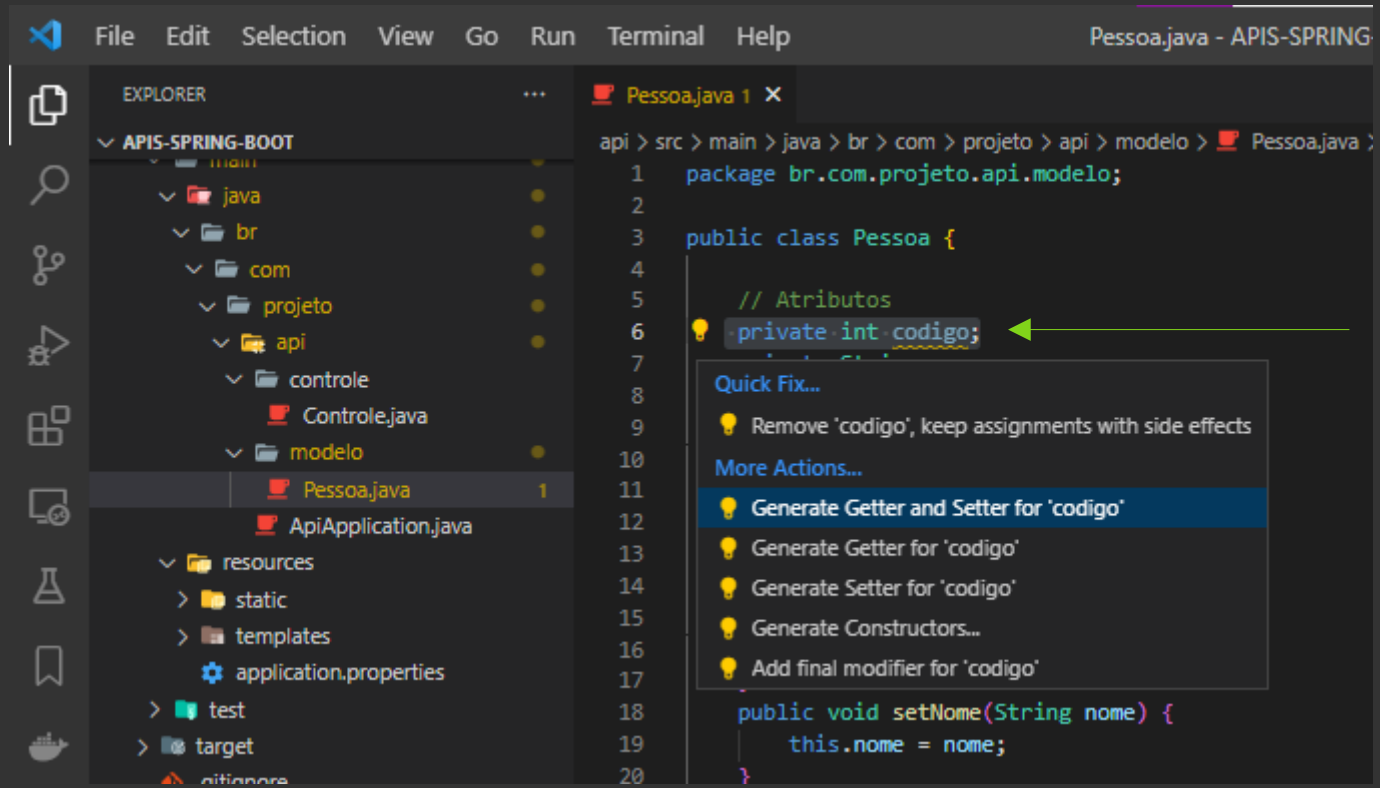
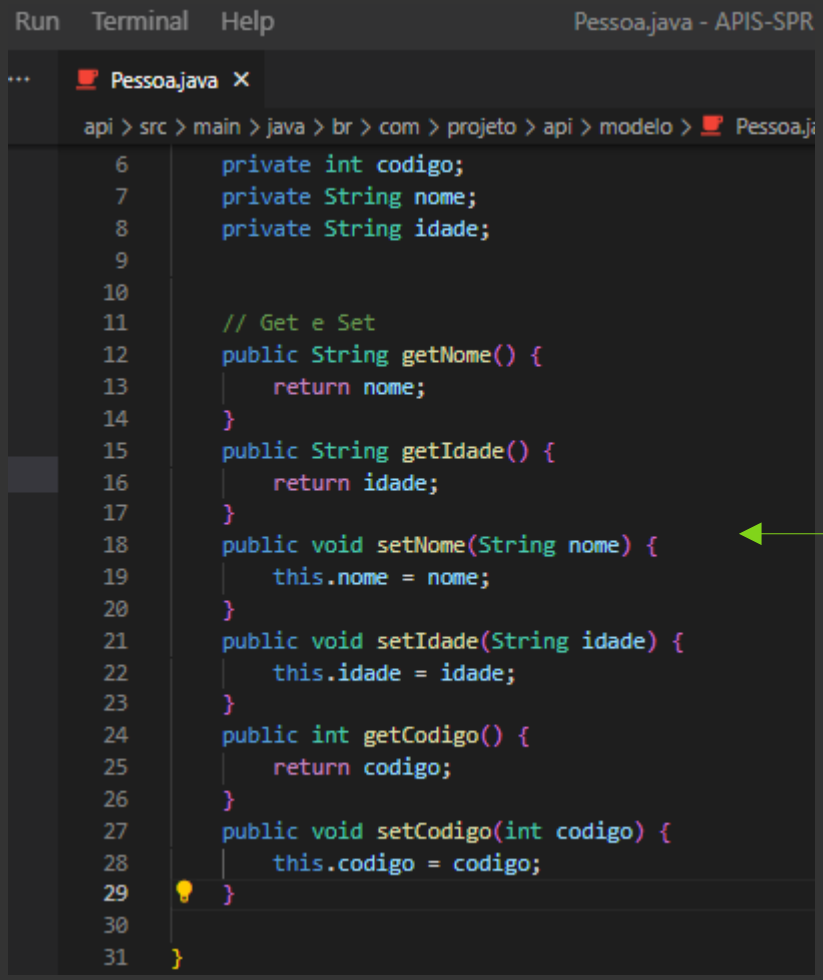
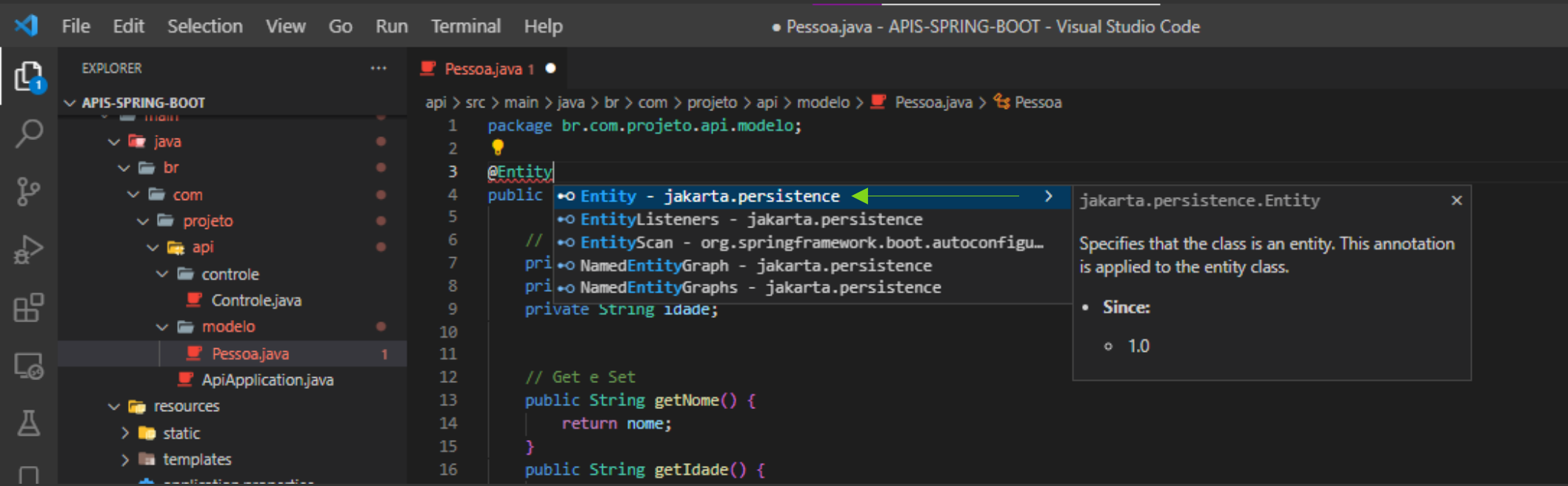
pom.xml
REDME.md
Pessoa.java 1
api > src > main > java > br > com > projeto > api > modelo > Pessoa.java > Pessoa
1 package br.com.projeto.api.modelo;
2
3 public class Pessoa {
4
5 // Atributos
6 private int codigo;
7 private String nome;
8 private String idade;
9
10
11 // Get e Set
12 public String getNome() {
13 return nome;
14 }
15 public String getIdade() {
16 return idade;
17 }
18 public void setNome(String nome) {
19 this.nome = nome;
20 }
21 public void setIdade(String idade) {
22 this.idade = idade;
23 }
24
25 }
26
Crie um novo atributo codigo



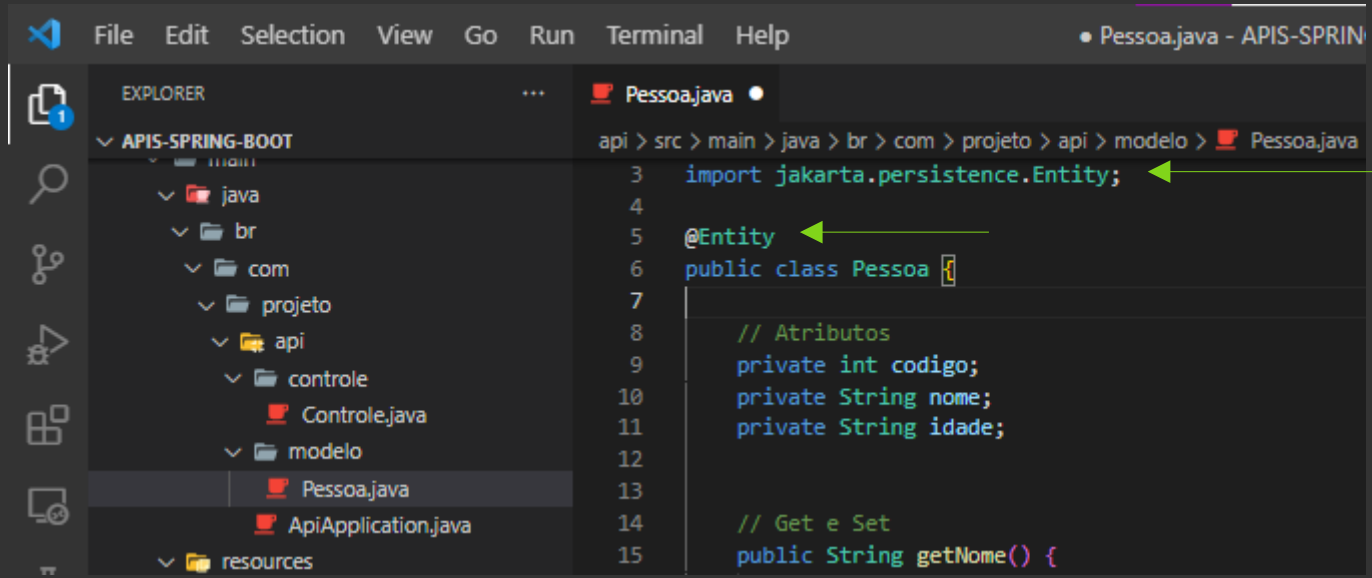
Selecione a linha todo e click na lampada pra gerar os getters e setters desse atributo



Recortei e colei no lugar certo
Pois ele aparece logo abaixo da próxima
vou prestar atenção onde o cursor esta ficando



Adicione a anotation e seu import


File Edit Selection View Go Run Terminal Help
• Pessoa.java - APIS-SPRIN
EXPLORER
APIS-SPRING-BOOT
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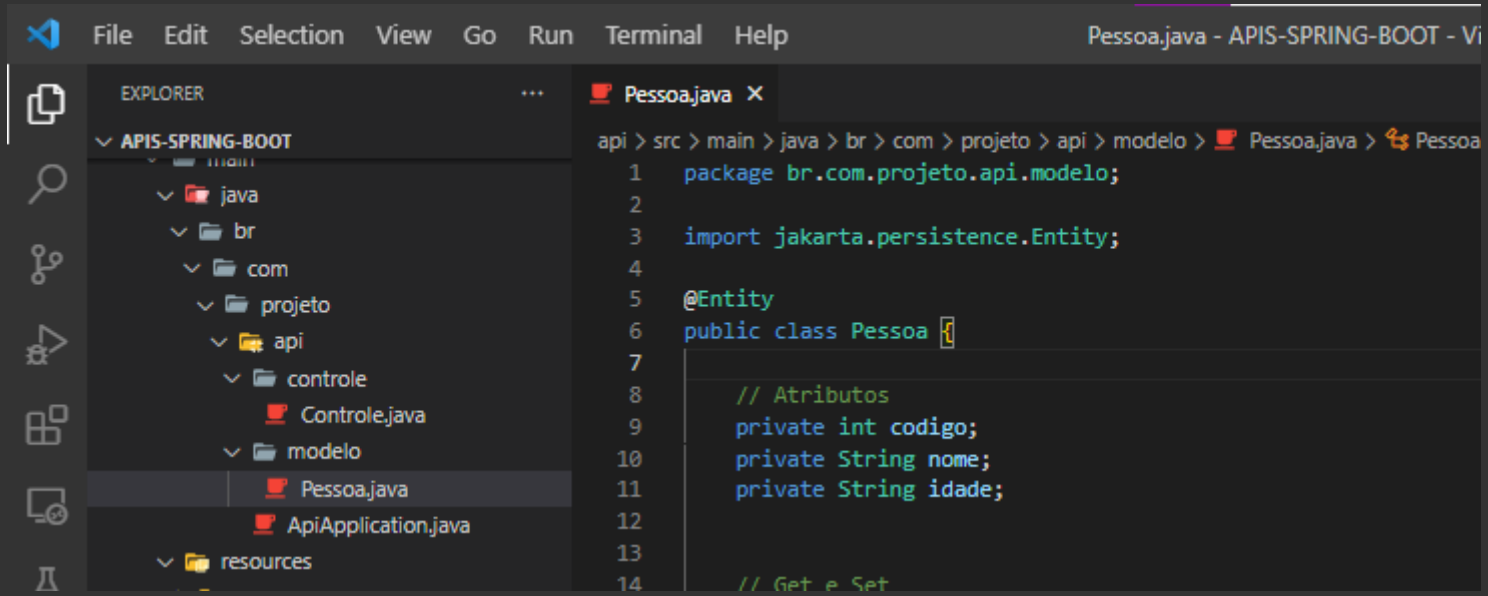
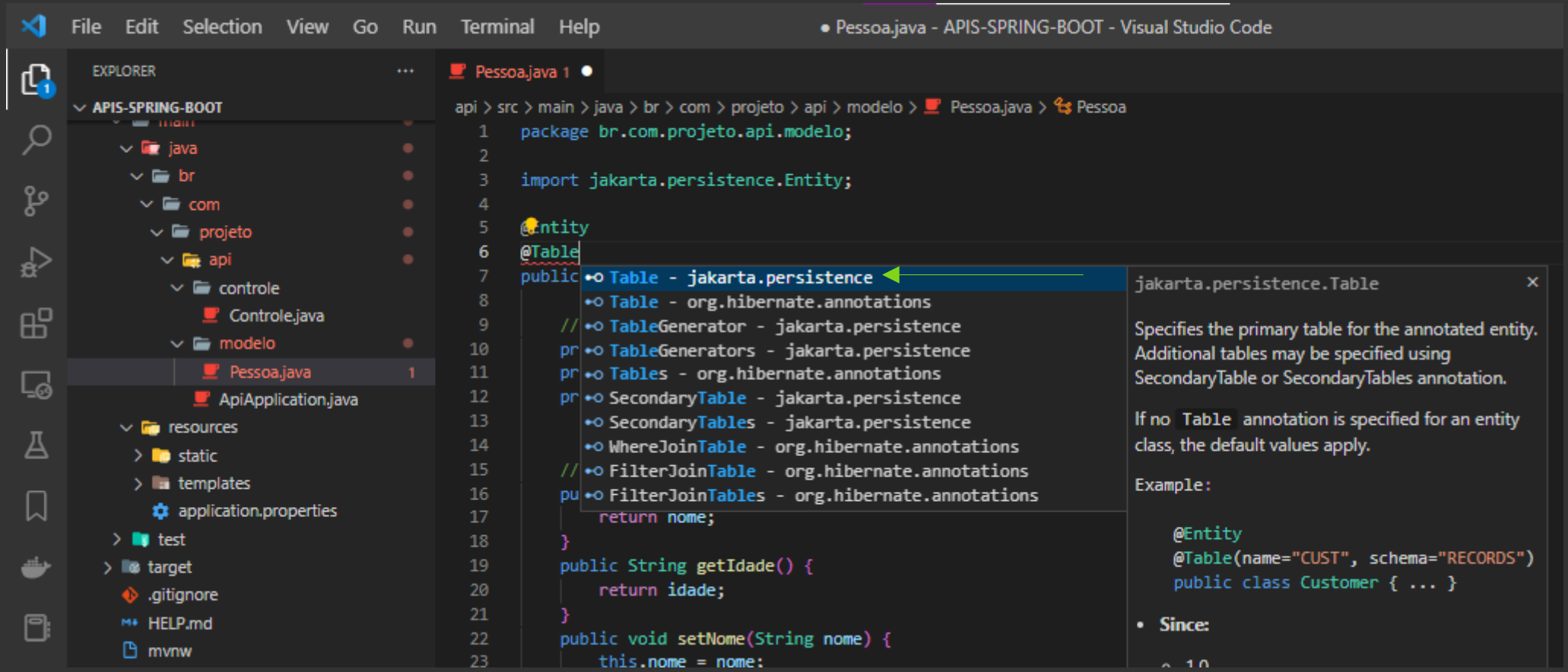
modelo
Pessoa.java
ApiApplication.java
resources
Pessoa.java
api > src > main > java > br > com > projeto > api > modelo > Pessoa.java
3 import jakarta.persistence.Entity;
4
5 @Entity
6 public class Pessoa {
7
8 // Atributos
9 private int codigo;
10 private String nome;
11 private String idade;
12
13
14 // Get e Set
15 public String getNome() {

Pra que serve o @Entity?
Ele especifica a criação da tabela



Nesse caso ele criaria uma tabela com os campos codigo nome idade
Por padrão a tabela segue o nome da classe Pessoa

E se eu quiser trocar o nome dessa tabela posso?
Sim adicionando o @Tabel e seu importe e passando dentro dos parentesis o nome da tabela que você quer
@Table(name = “pessoas”)


File Edit Selection View Go Run Terminal Help
• Pessoa.java - APIS-SPRING-BOOT - Visual Studio Code
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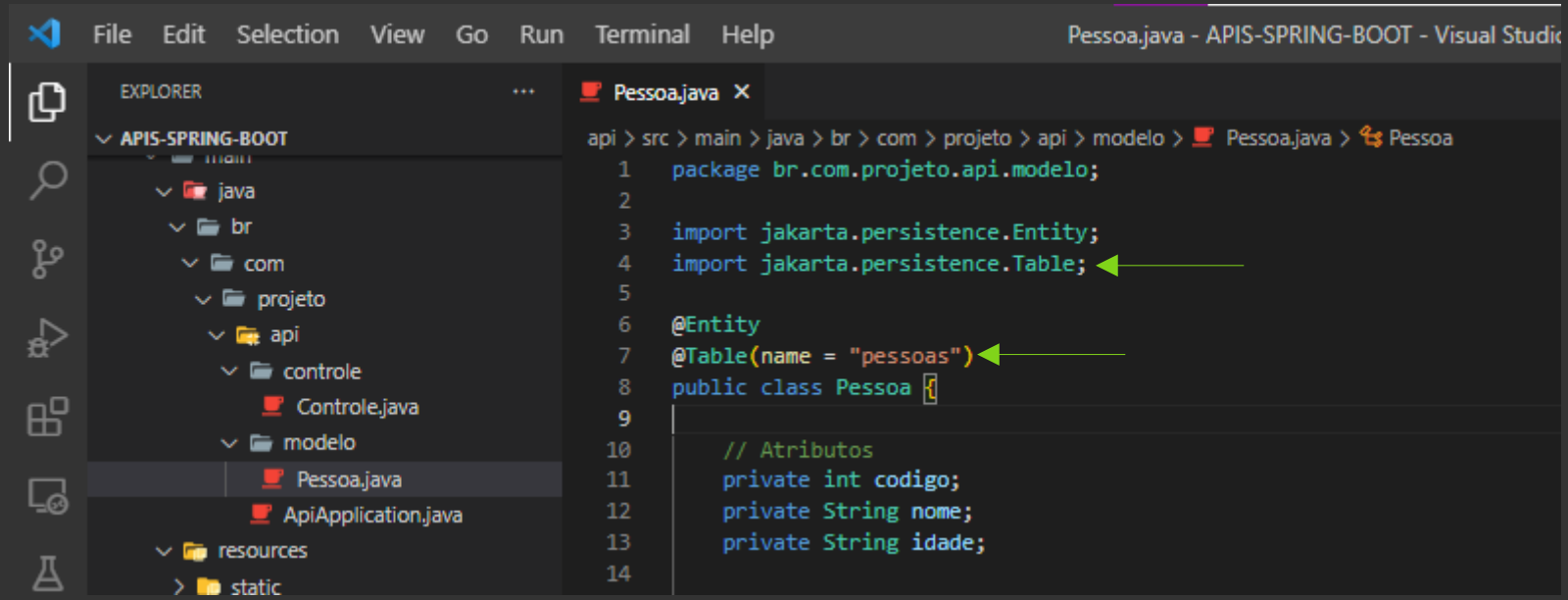
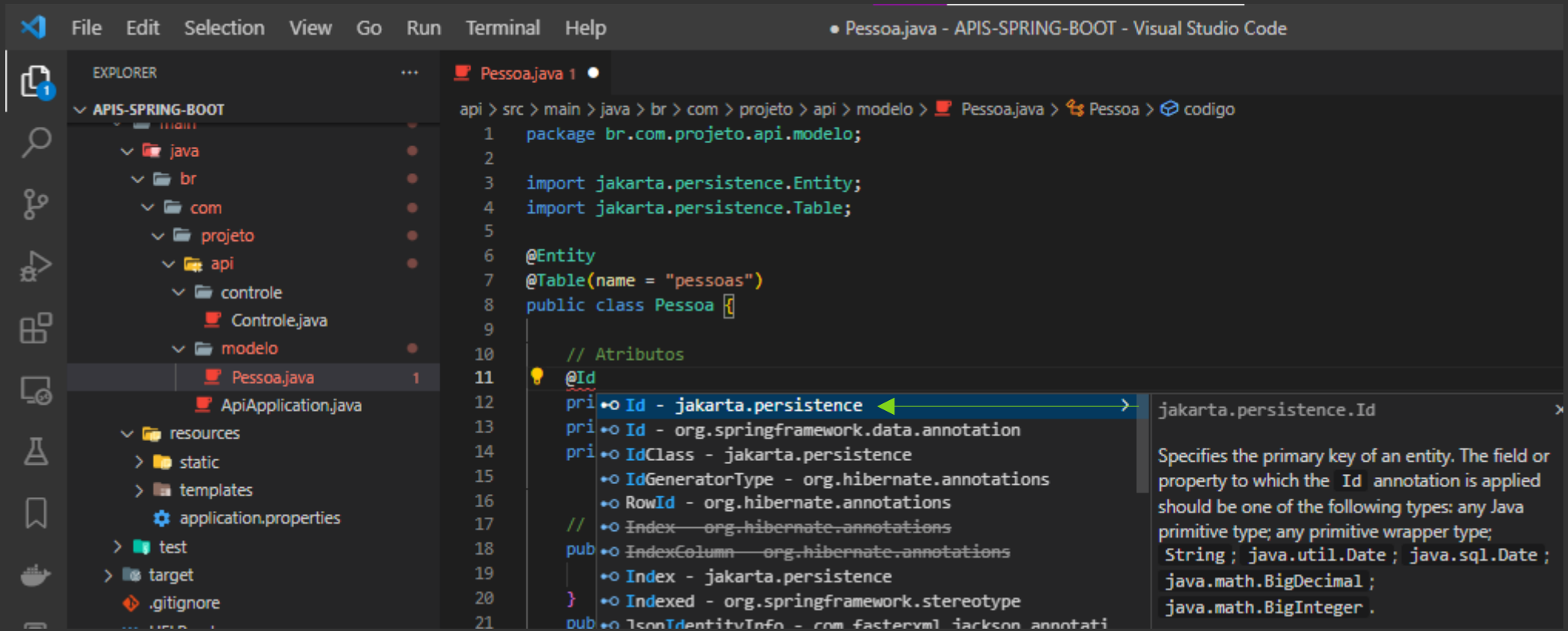
Pessoa.java 1
api > src > main > java > br > com > projeto > api > modelo > Pessoa.java > Pessoa
1 package br.com.projeto.api.modelo;
3 import jakarta.persistence.Entity;
5 @Entity
6 @Table
7 public
Table - jakarta.persistence
Table - org.hibernate.annotations
TableGenerator - jakarta.persistence
TableGenerators - jakarta.persistence
Tables - org.hibernate.annotations
SecondaryTable - jakarta.persistence
SecondaryTables - jakarta.persistence
WhereJoinTable - org.hibernate.annotations
FilterJoinTable - org.hibernate.annotations
FilterJoinTables - org.hibernate.annotations
return nome;
public String getIdade() {
return idade;
public void setNome(String nome) {
this.nome = nome;
jakarta.persistence.Table
Specifies the primary table for the annotated entity. Additional tables may be specified using SecondaryTable or SecondaryTables annotation.
If no Table annotation is specified for an entity class, the default values apply.
Example:
@Entity
@Table(name="CUST", schema="RECORDS")
public class Customer { ... }
Since:



Com essa anotation damo o nome de pessoas a nossa tabela
E caso não queria mudar o nome da tabela não precisaria dessa linha

Vamos adicionar a chave primaria
Adicione a anotation @Id e seu importe lembre que é do pacote javax.persistence


File Edit Selection View Go Run Terminal Help
• Pessoa.java - APIS-SPRING-BOOT - Visual Studio Code
EXPLORER
APIS-SPRING-BOOT
java
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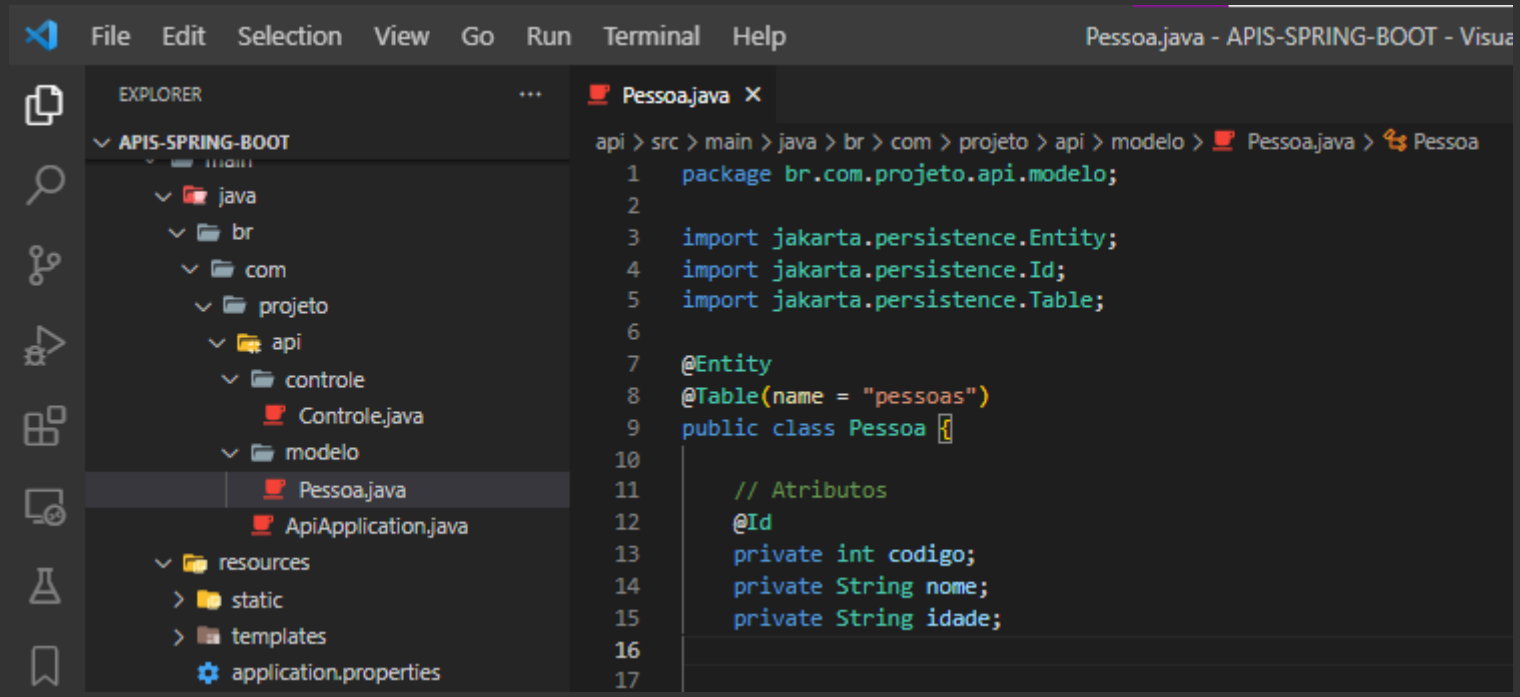
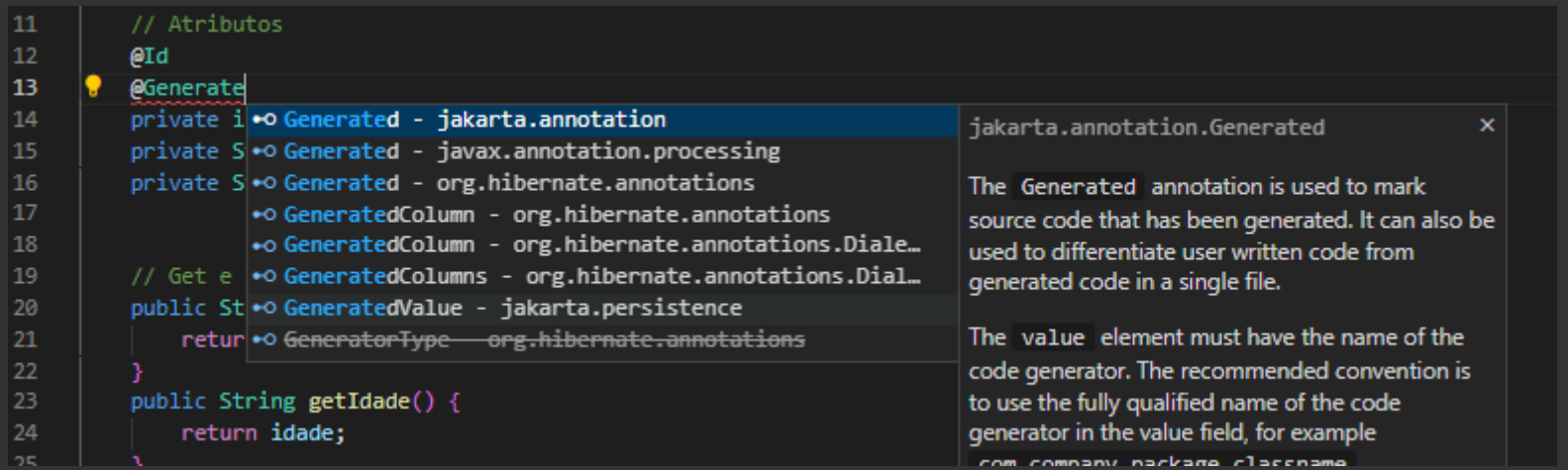
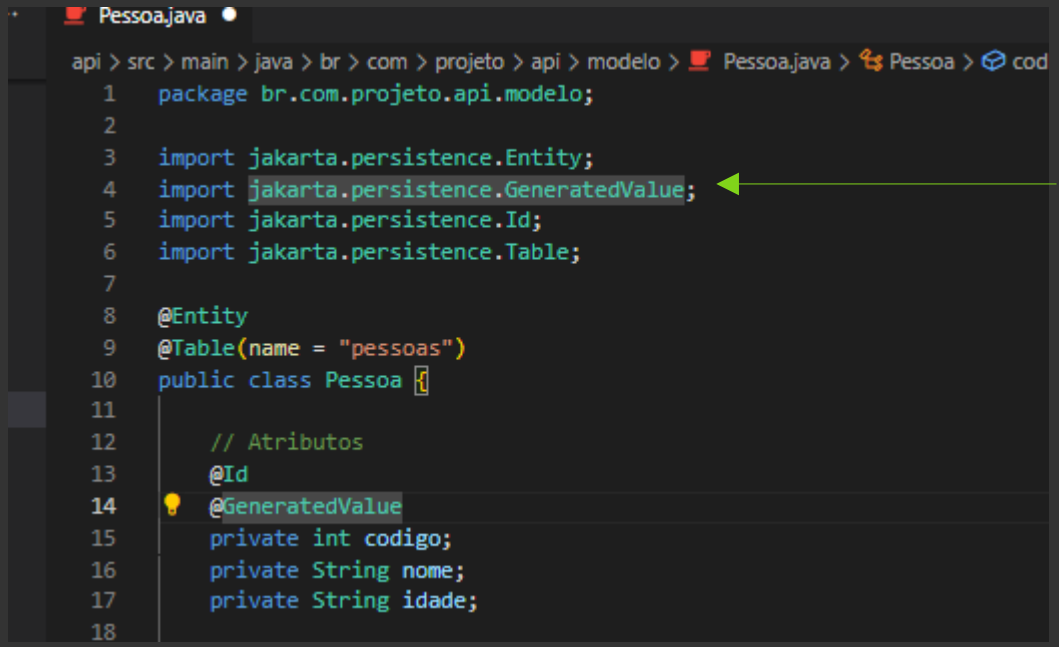
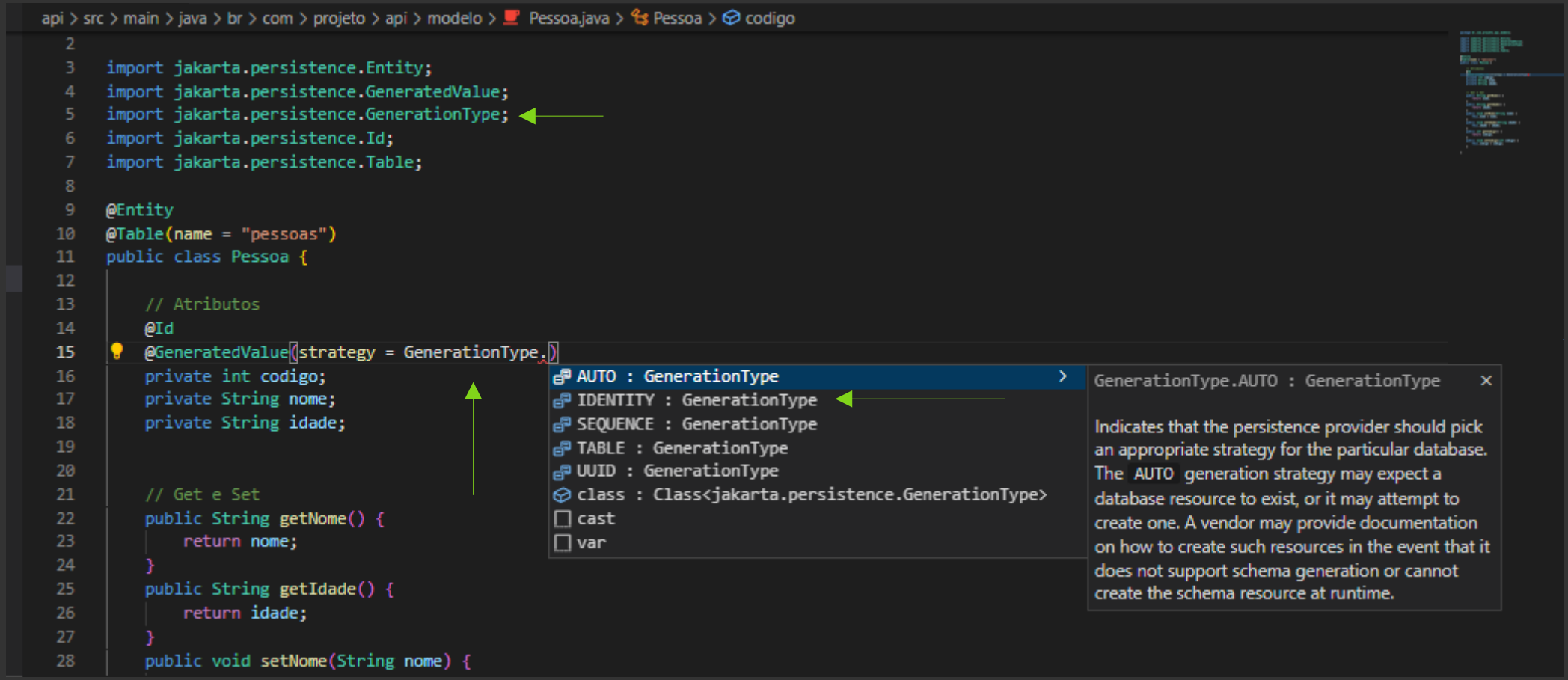
.gitignore
Pessoa.java 1
api > src > main > java > br > com > projeto > api > modelo > Pessoa.java > Pessoa > codigo
1 package br.com.projeto.api.modelo;
3 import jakarta.persistence.Entity;
4 import jakarta.persistence.Table;
6 @Entity
7 @Table(name = "pessoas")
8 public class Pessoa {
10 // Atributos
11 @Id
Id - jakarta.persistence
Id - org.springframework.data.annotation
IdClass - jakarta.persistence
IdGeneratorType - org.hibernate.annotations
RowId - org.hibernate.annotations
Index - org.hibernate.annotations
IndexColumn - org.hibernate.annotations
Index - jakarta.persistence
Indexed - org.springframework.stereotype
jakarta.persistence.Id
Specifies the primary key of an entity. The field or property to which the Id annotation is applied should be one of the following types: any Java primitive type; any primitive wrapper type; String ; java.util.Date ; java.sql.Date ; java.math.BigDecimal ; java.math.BigInteger .

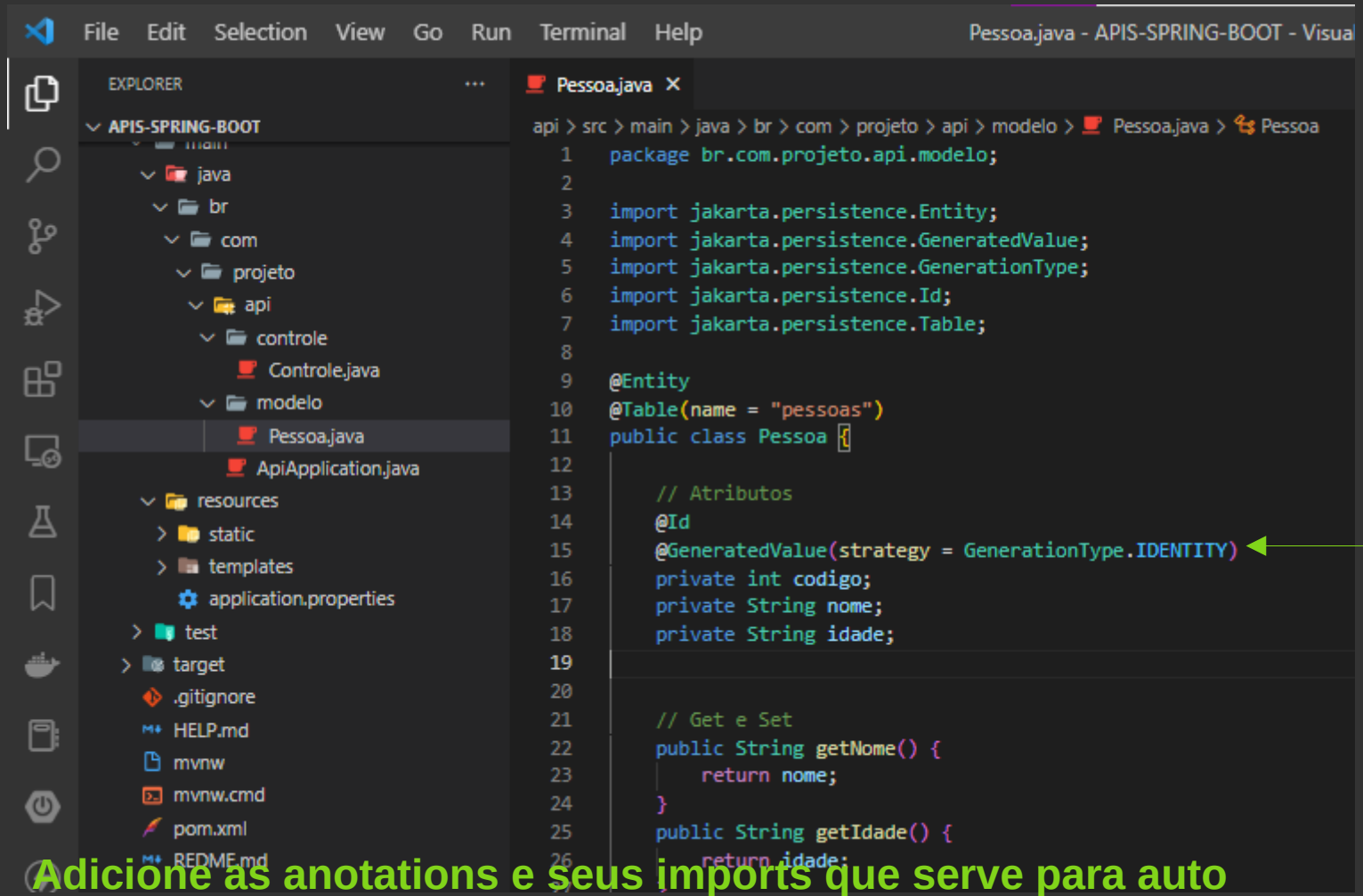


Podemos pedir um auto-increment
Adicionando a anotation @GeneratedValeu e seu importe e dentro passamos o strategy = GenerationType.AUTO


// Atributos
@Id
@Generate
private i
private S
private S
// Get e
public St
retur
}
public String getIdade() {
return idade;
Generated - jakarta.annotation
Generated - javax.annotation.processing
Generated - org.hibernate.annotations
GeneratedColumn - org.hibernate.annotations
GeneratedColumn - org.hibernate.annotations.Diale…
GeneratedColumns - org.hibernate.annotations.Dial…
GeneratedValue - jakarta.persistence
GeneratorType — org.hibernate.annotations
jakarta.annotation.Generated
The Generated annotation is used to mark source code that has been generated. It can also be used to differentiate user written code from generated code in a single file.
The value element must have the name of the code generator. The recommended convention is to use the fully qualified name of the code generator in the value field, for example


Pessoa.java
api > src > main > java > br > com > projeto > api > modelo > Pessoa.java > Pessoa > cod
package br.com.projeto.api.modelo;
import jakarta.persistence.Entity;
import jakarta.persistence.GeneratedValue;
import jakarta.persistence.Id;
import jakarta.persistence.Table;
@Entity
@Table(name = "pessoas")
public class Pessoa {
// Atributos
@Id
@GeneratedValue
private int codigo;
private String nome;
private String idade;

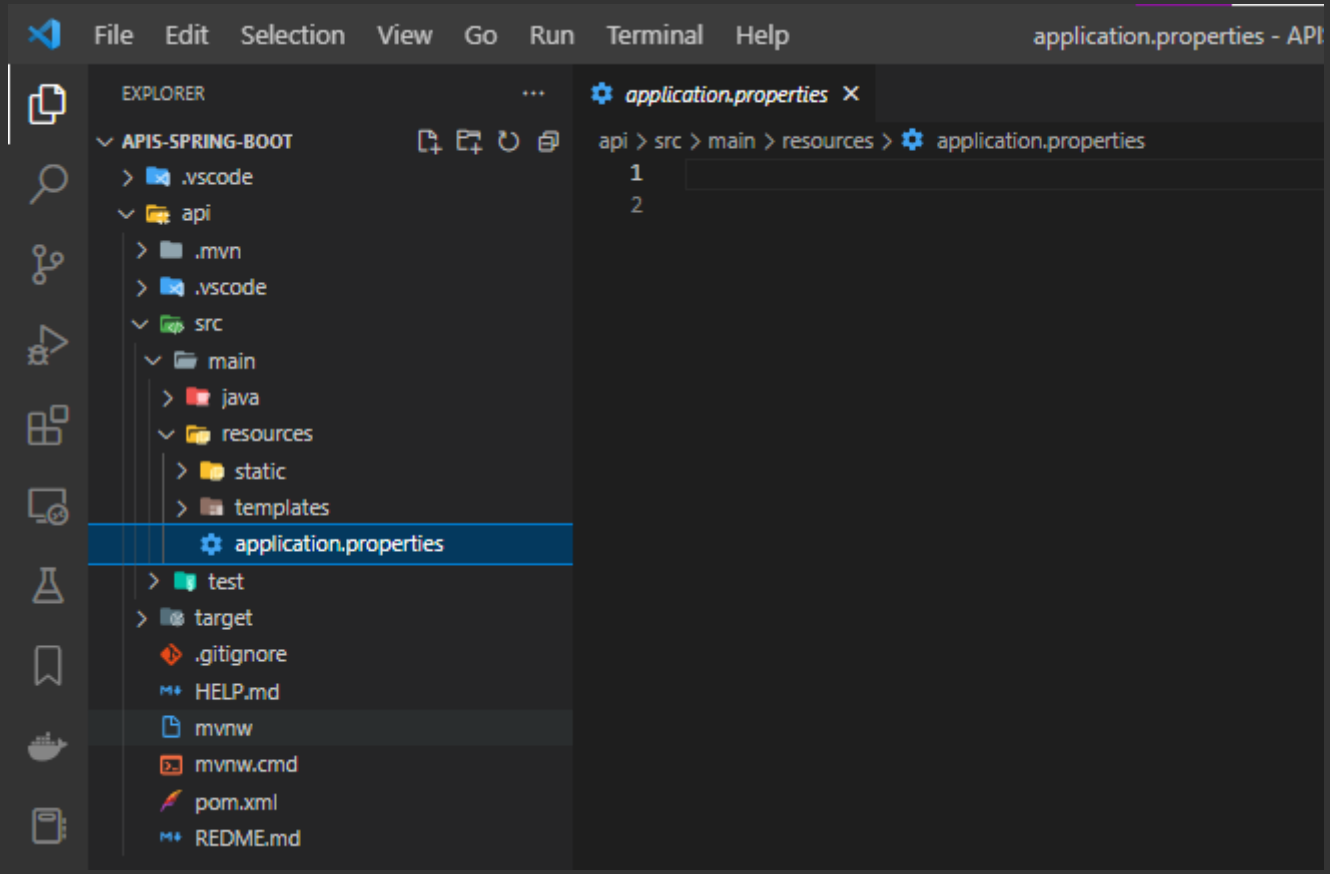

api > src > main > java > br > com > projeto > api > modelo > Pessoa.java > Pessoa > codigo
import jakarta.persistence.Entity;
import jakarta.persistence.GeneratedValue;
import jakarta.persistence.GenerationType;
import jakarta.persistence.Id;
import jakarta.persistence.Table;
@Entity
@Table(name = "pessoas")
public class Pessoa {
// Atributos
@Id
@GeneratedValue(strategy = GenerationType.)
private int codigo;
private String nome;
private String idade;
// Get e Set
public String getNome() {
return nome;
}
public String getIdade() {
return idade;
}
public void setNome(String nome) {
AUTO : GenerationType
IDENTITY : GenerationType
SEQUENCE : GenerationType
TABLE : GenerationType
UUID : GenerationType
class : Class<jakarta.persistence.GenerationType>
cast
var
GenerationType.AUTO : GenerationType
Indicates that the persistence provider should pick an appropriate strategy for the particular database. The AUTO generation strategy may expect a database resource to exist, or it may attempt to create one. A vendor may provide documentation on how to create such resources in the event that it does not support schema generation or cannot create the schema resource at runtime.



Adicione as anotations e seus imports que serve para auto increment

#13
Conexão com mysql

Para configurar a conexão temos que usar o arquivo application.properties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application.properties - API
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test
target
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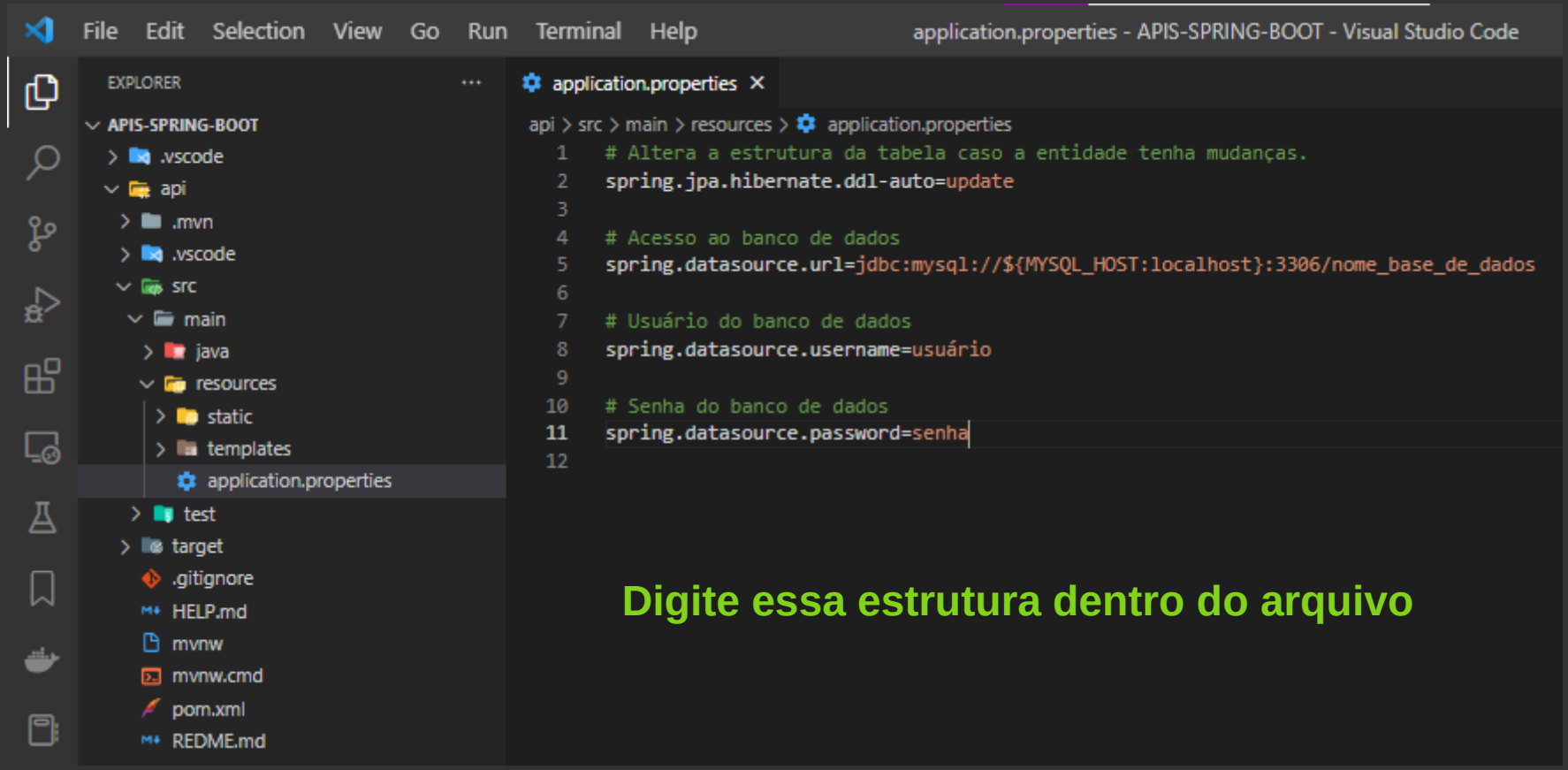
HELP.md
mvnw
mvnw.cmd
pom.xml
REDME.md
application.properties
api > src > main > resources > application.properties
1
2


File Edit Selection View Go Run Terminal Help
application.properties - APIS-SPRING-BOOT - Visual Studio Code
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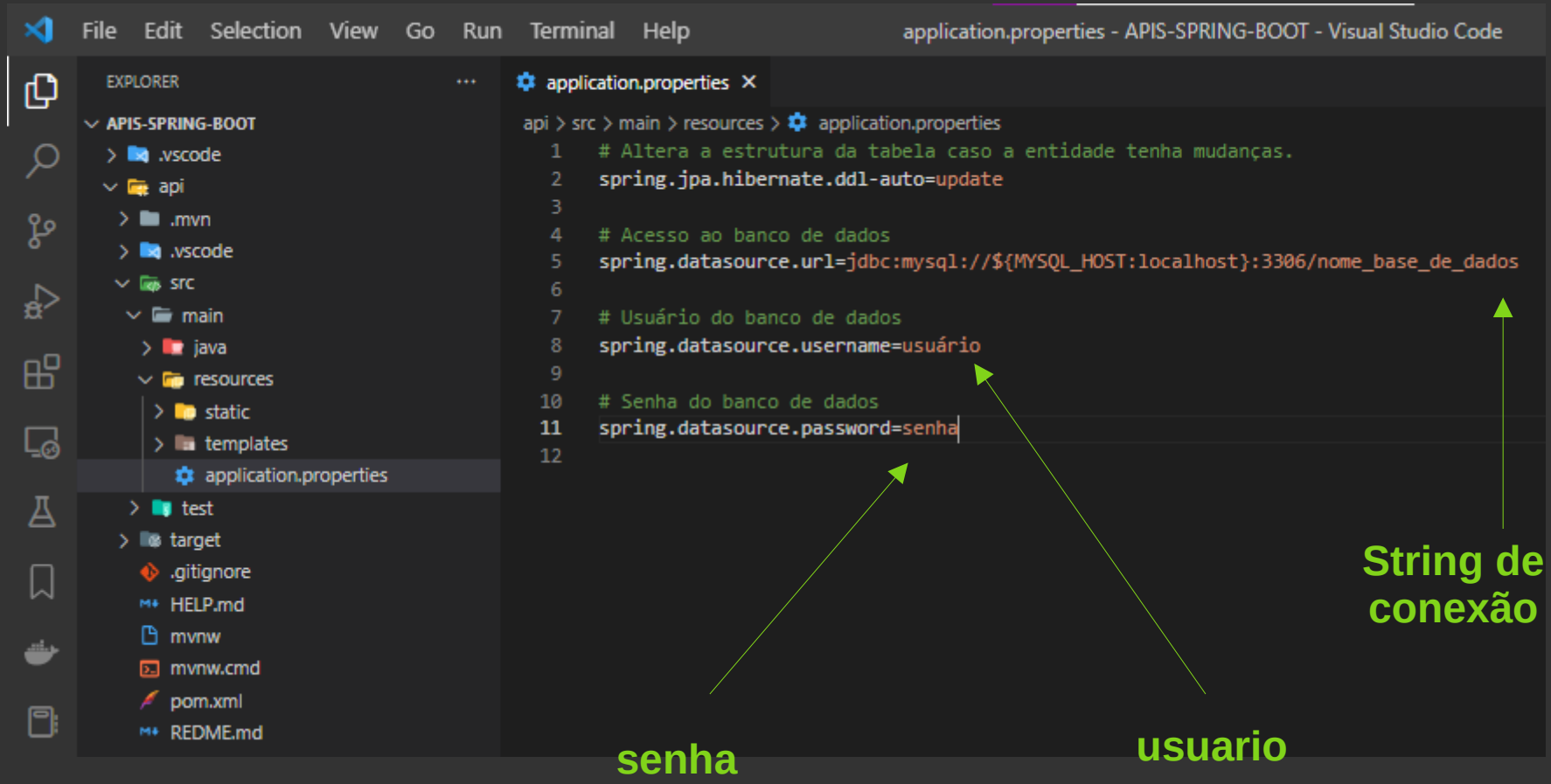
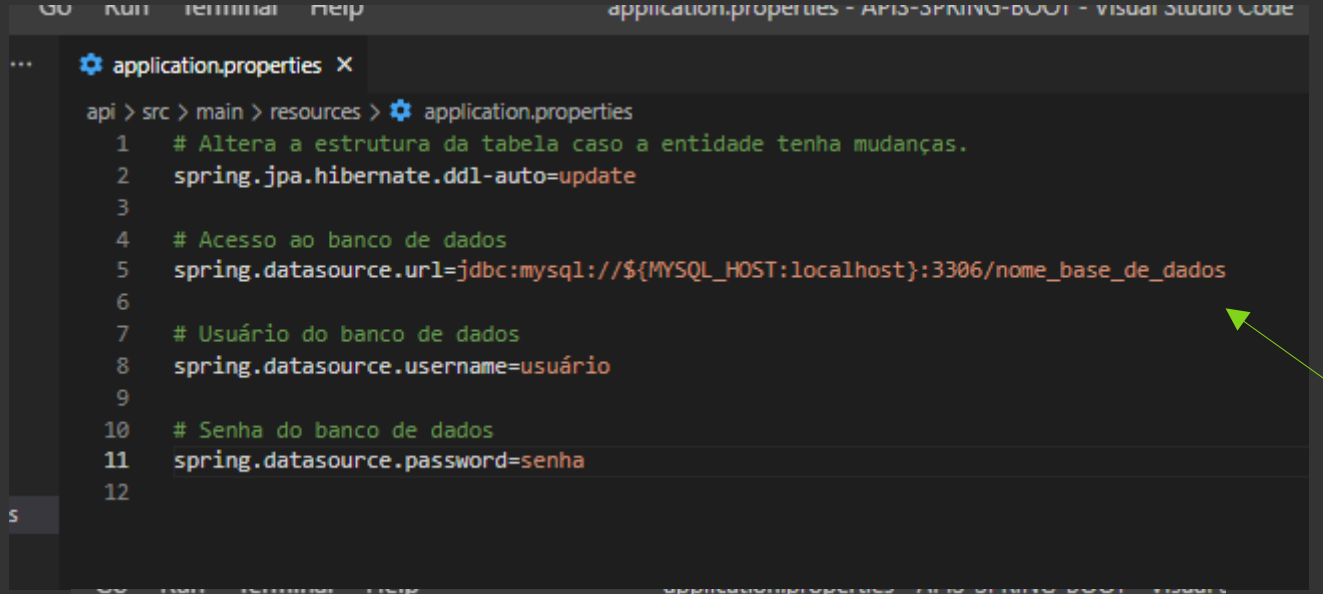
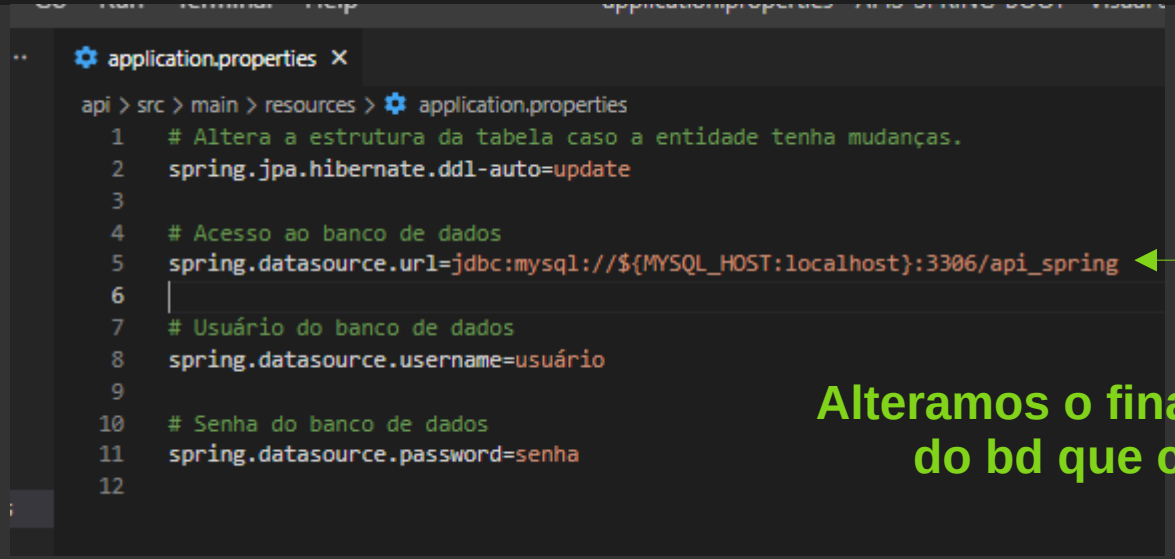
test
target
.gitignore
HELP.md
mvnw
mvnw.cmd
pom.xml
REDME.md
application.properties
api > src > main > resources > application.properties
1 # Altera a estrutura da tabela caso a entidade tenha mudanças.
2 spring.jpa.hibernate.ddl-auto=update
3
4 # Acesso ao banco de dados
5 spring.datasource.url=jdbc:mysql://${MYSQL_HOST:localhost}:3306/nome_base_de_dados
6
7 # Usuário do banco de dados
8 spring.datasource.username=usuário
9
10 # Senha do banco de dados
11 spring.datasource.password=senha
12
Digite essa estrutura dentro do arquivo

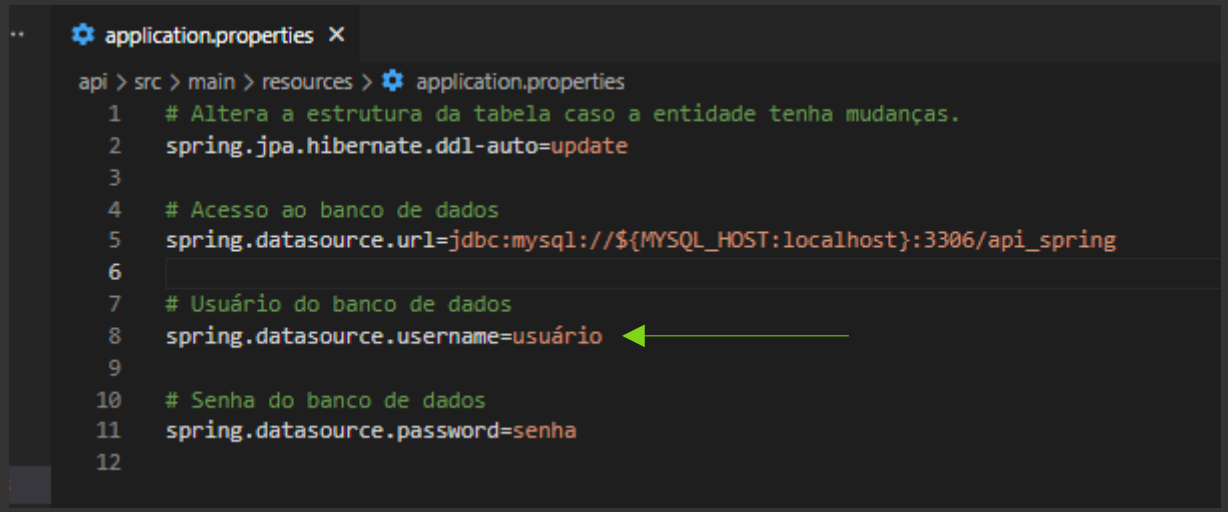
Se o arquivo pom.xml marcar um erro feche o vscode e abra novamente

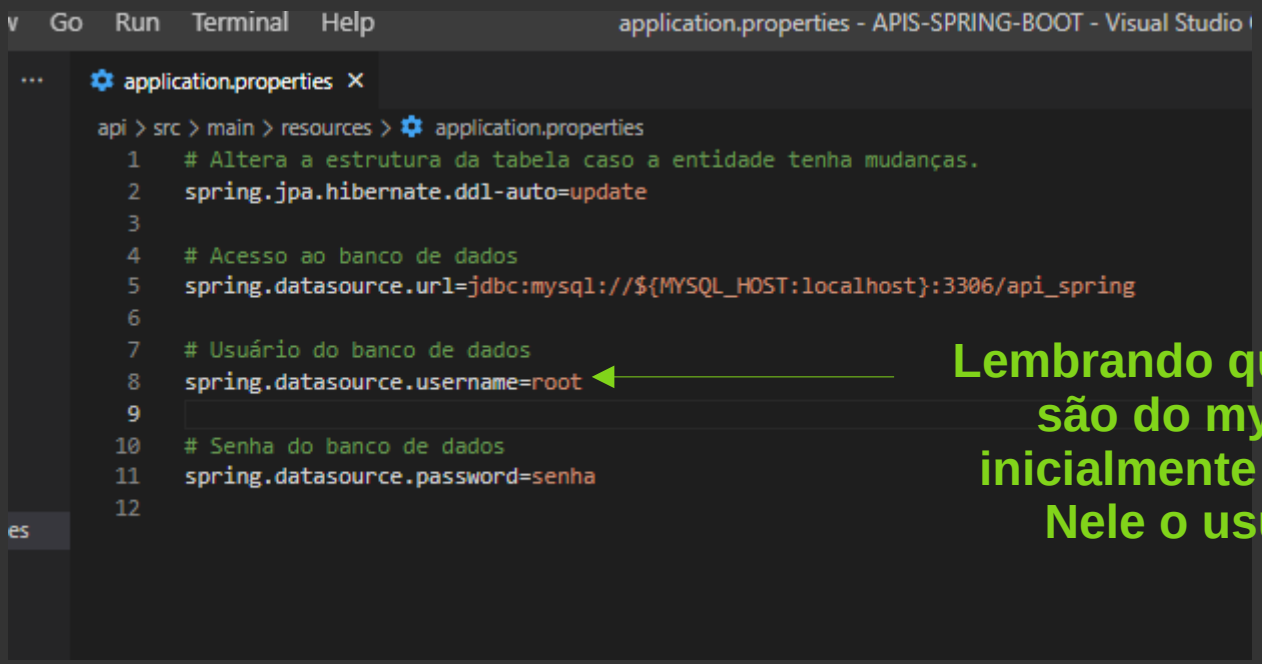




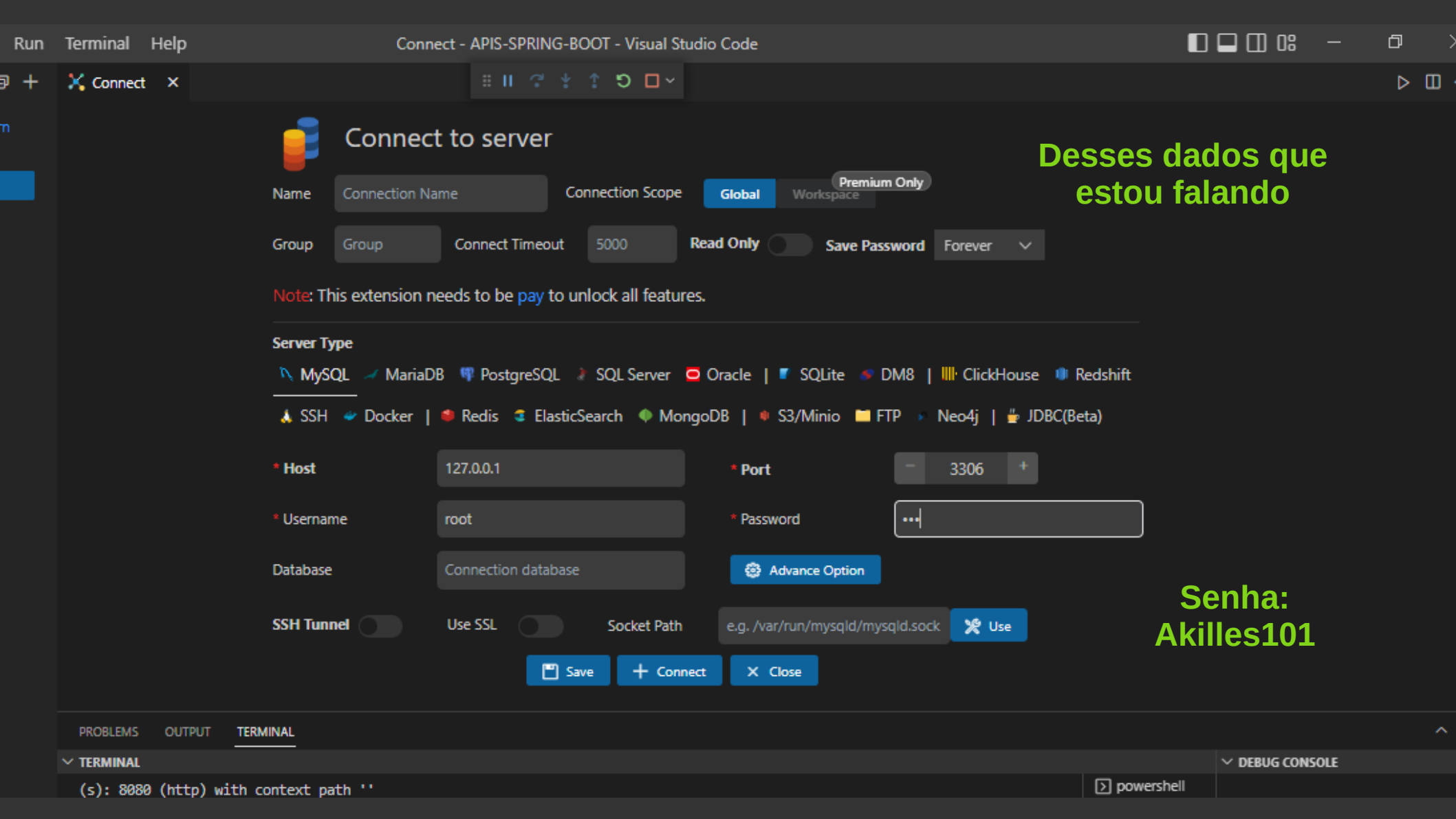


Alteramos o final pro nome do bd que criamos





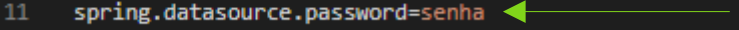
Lembrando que esses dados são do mysql quando inicialmente configuramos Nele o usuario é root


Run
Terminal
Help
Connect - APIS-SPRING-BOOT - Visual Studio Code
Connect
Connect to server
Name
Connection Name
Connection Scope
Global
Workspace
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/mysqld/mysqld.sock
Use
Save
Connect
Close
Desses dados que estou falando
Senha: Akilles101
PROBLEMS
OUTPUT
TERMINAL
TERMINAL
DEBUG CONSOLE
(s): 8080 (http) with context path ''
powershell

application.properties

api > src > main > resources > application.properties

```
1  # Altera a estrutura da tabela caso a entidade tenha mudanças.
2  spring.jpa.hibernate.ddl-auto=update
3
4  # Acesso ao banco de dados
5  spring.datasource.url=jdbc:mysql://${MYSQL_HOST:localhost}:3306/api_spring
6
7  # Usuário do banco de dados
8  spring.datasource.username=root
9
10 # Senha do banco de dados
11 spring.datasource.password=senha
12
```



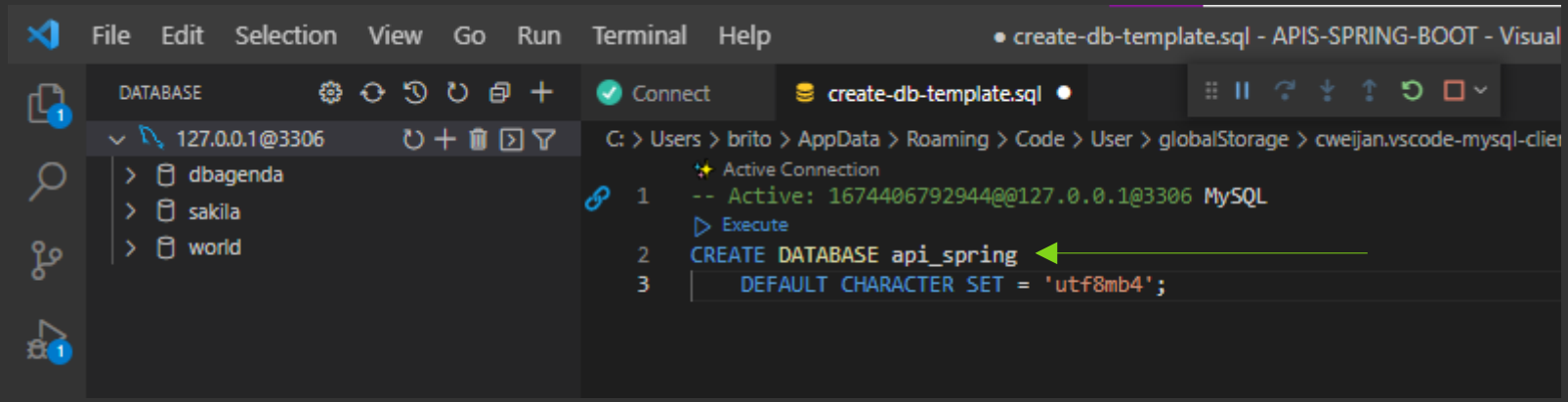
Go Run Terminal Help • application.properties - APIS-SPRING-BOOT - Visual Stu

application.properties

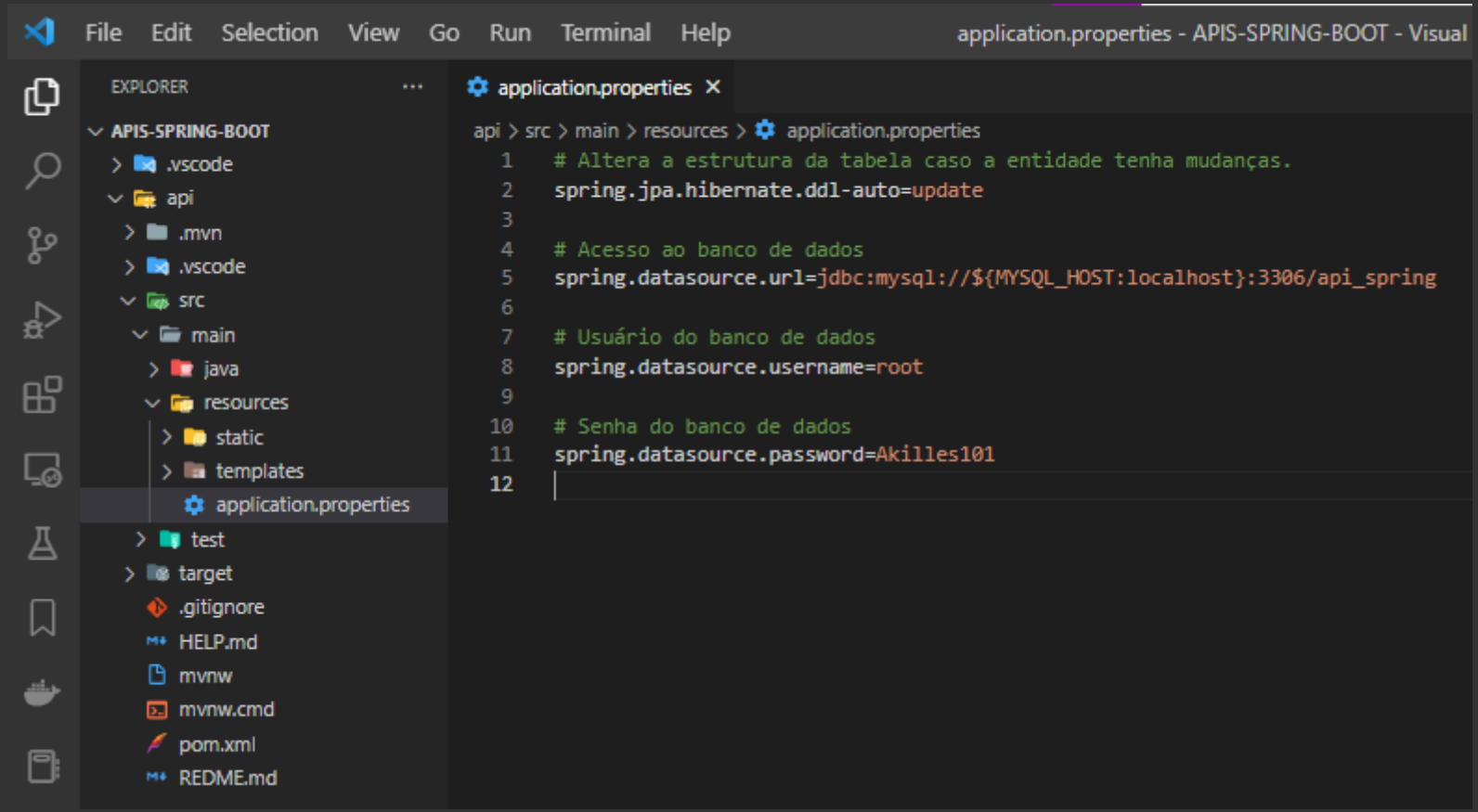
api > src > main > resources > application.properties

```
1  # Altera a estrutura da tabela caso a entidade tenha mudanças.
2  spring.jpa.hibernate.ddl-auto=update
3
4  # Acesso ao banco de dados
5  spring.datasource.url=jdbc:mysql://${MYSQL_HOST:localhost}:3306/api_spring
6
7  # Usuário do banco de dados
8  spring.datasource.username=root
9
10 # Senha do banco de dados
11 spring.datasource.password=Akilles101
12
```

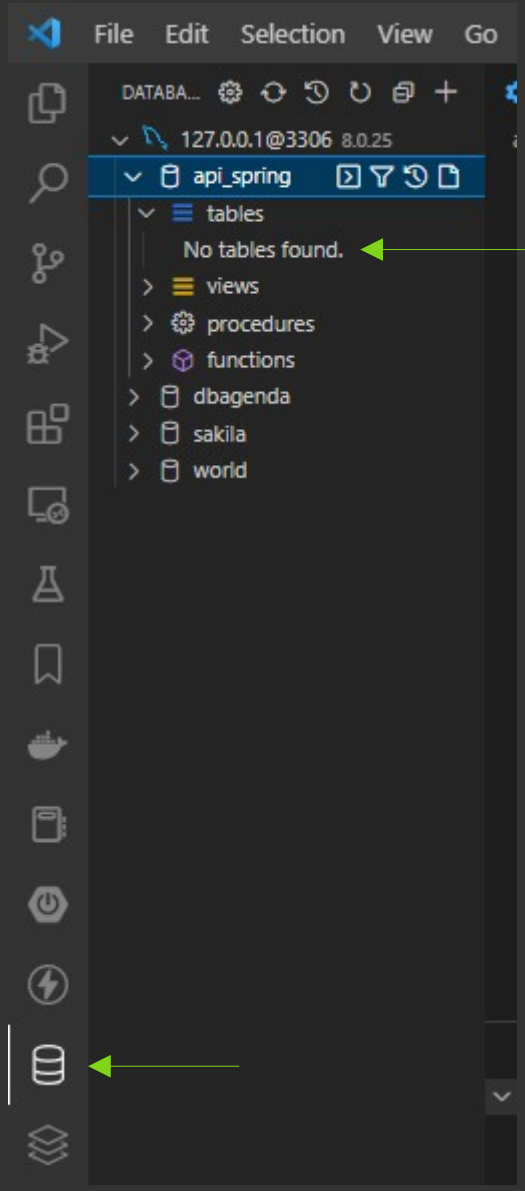
Akilles101



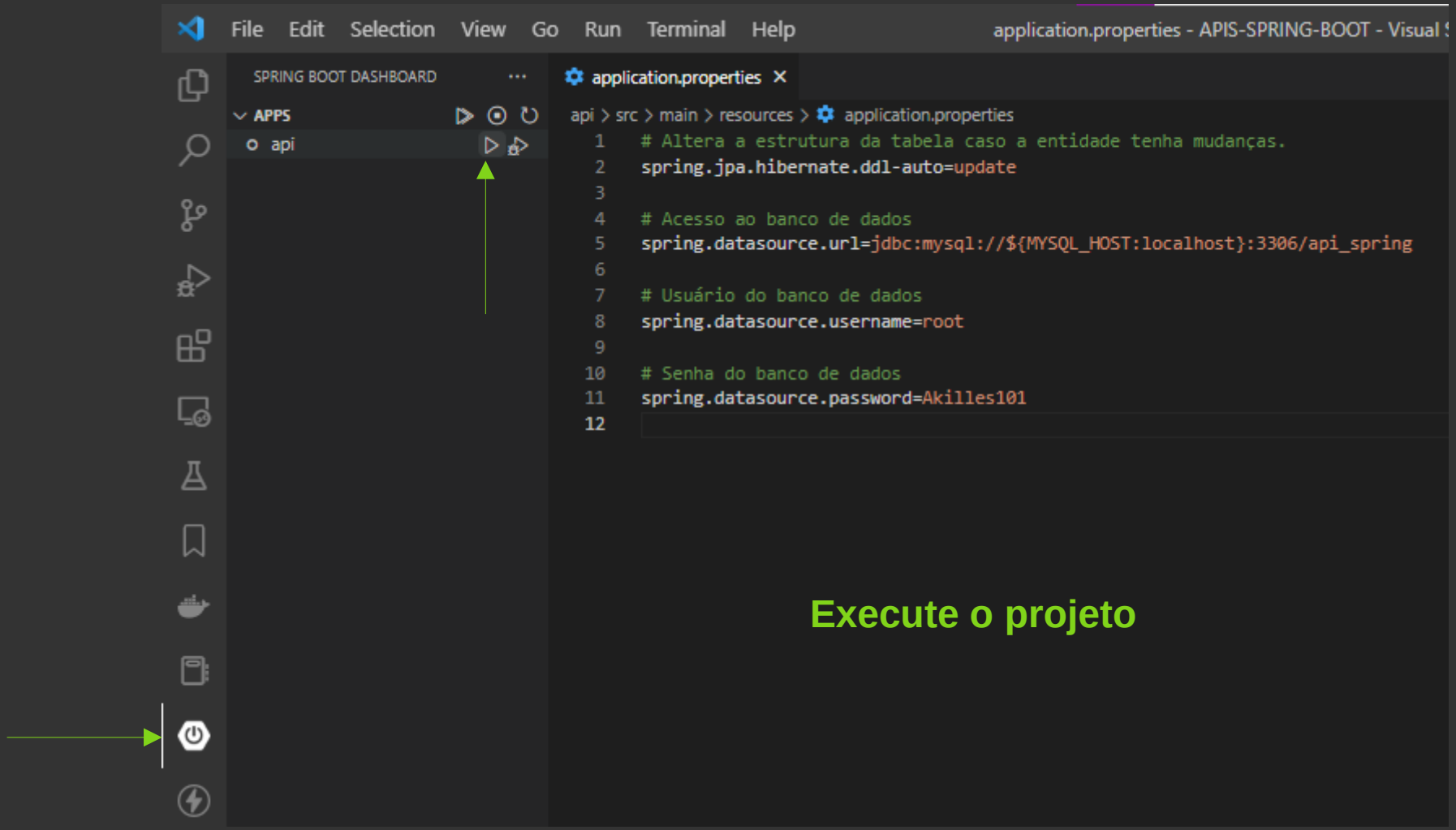
Pra não deixar duvidas sobre o nome do banco de dados api_spring

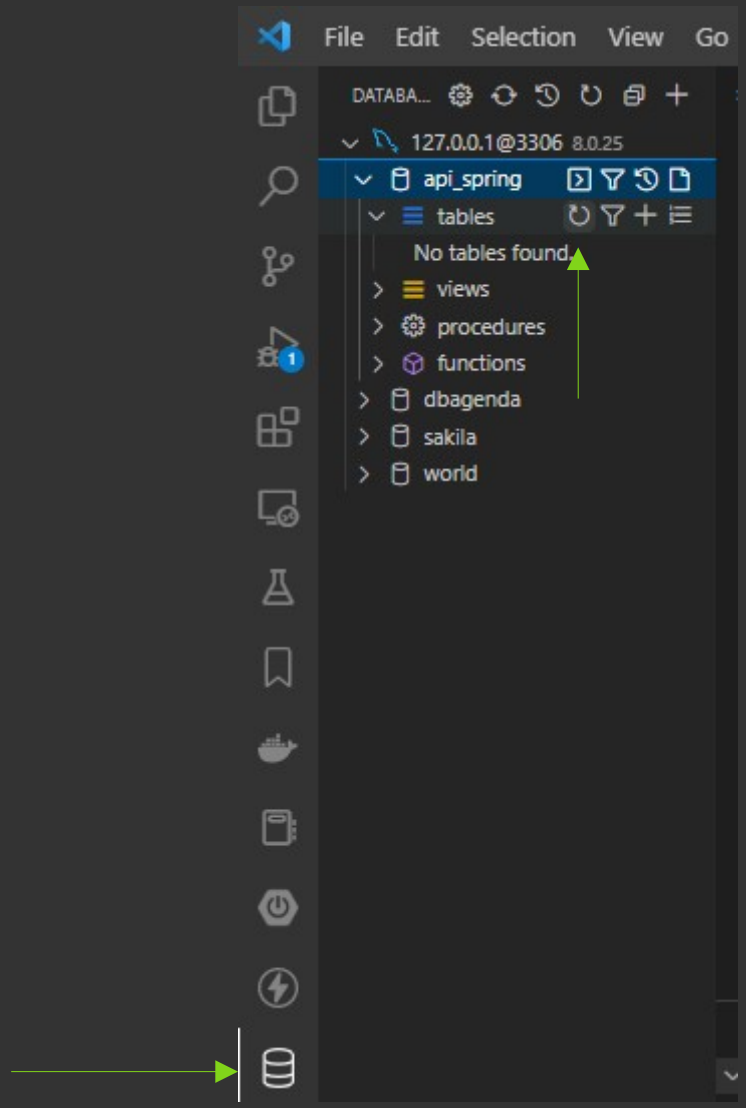


Salve os dados

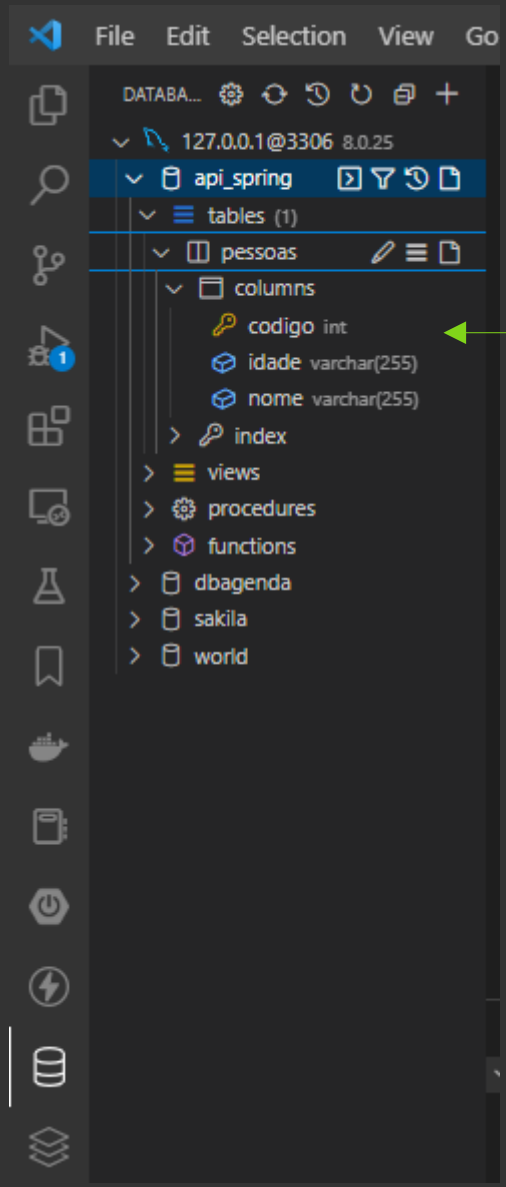


Abra o bad pra ver que ainda não existem tabelas


File Edit Selection View Go Run Terminal Help
application.properties - APIS-SPRING-BOOT - Visual
SPRING BOOT DASHBOARD
APPS
api
application.properties
api > src > main > resources > application.properties
1 # Altera a estrutura da tabela caso a entidade tenha mudanças.
2 spring.jpa.hibernate.ddl-auto=update
3
4 # Acesso ao banco de dados
5 spring.datasource.url=jdbc:mysql://${MYSQL_HOST:localhost}:3306/api_spring
6
7 # Usuário do banco de dados
8 spring.datasource.username=root
9
10 # Senha do banco de dados
11 spring.datasource.password=Akilles101
12
Execute o projeto



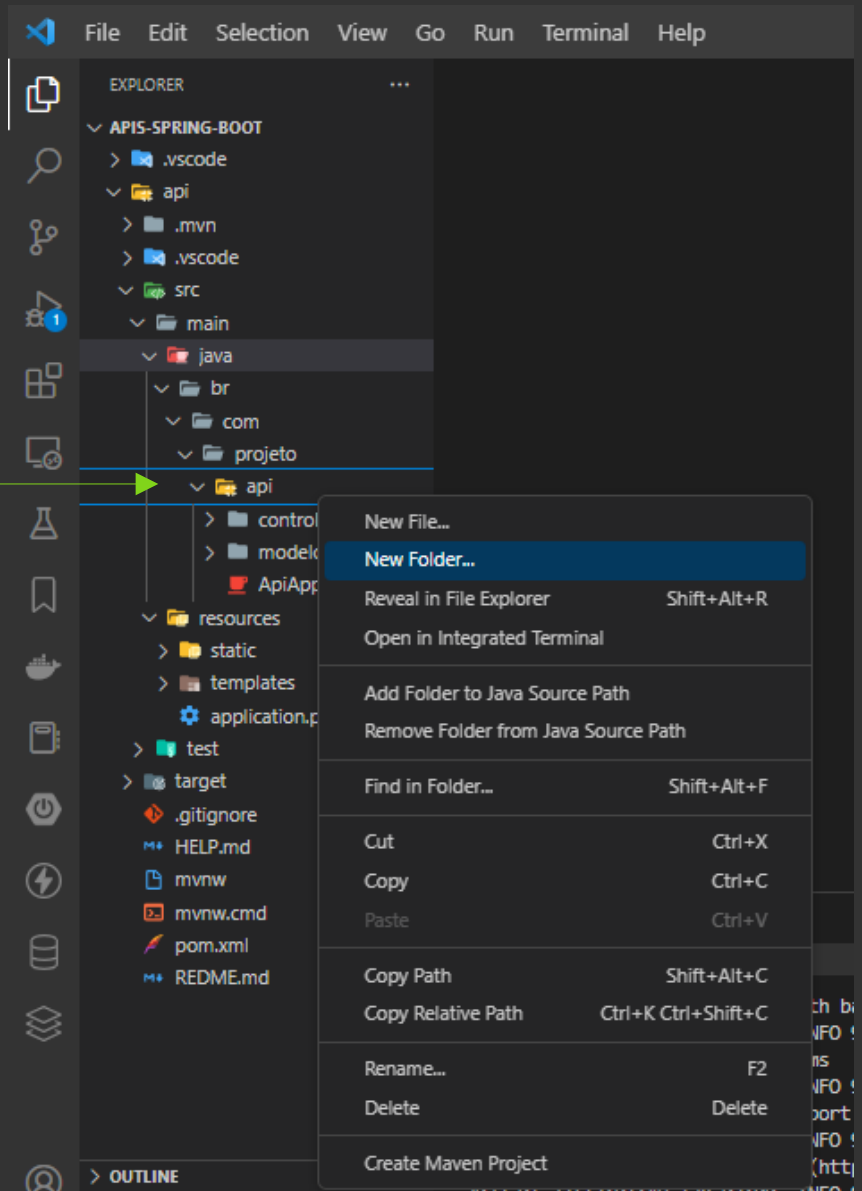
Depois de executar atualize refresh



Os dados foram criados

#14
Criando repositorio

o que é um repositorio?
Uma camada de persistencia
O que é uma camada de persistencia?
Parte do projeto onde fazemos as ações do banco de dados
Os chamados cruds


File Edit Selection View Go Run Terminal Help
EXPLORER
APIS-SPRING-BOOT
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resources
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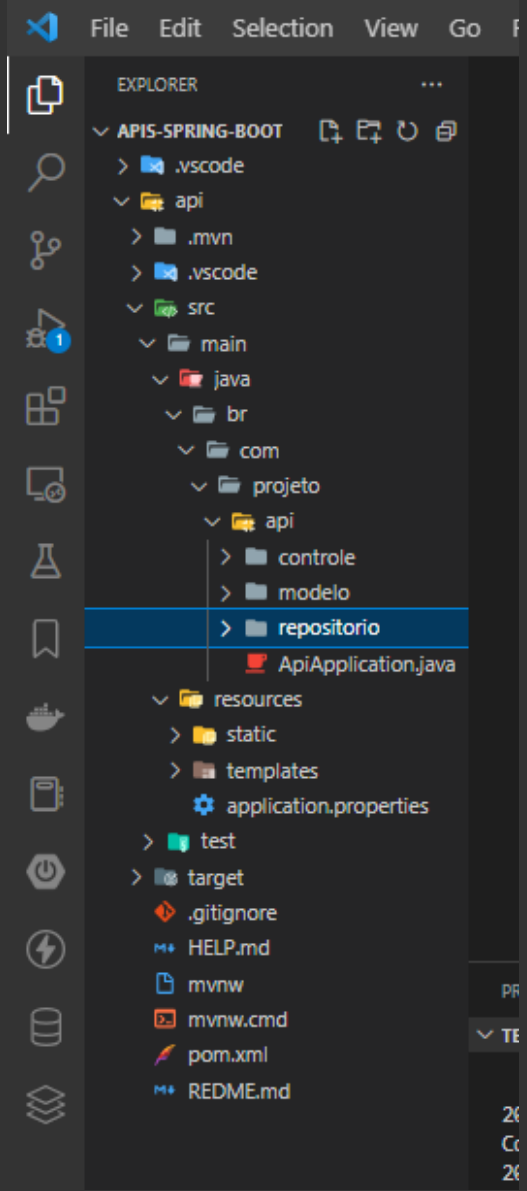
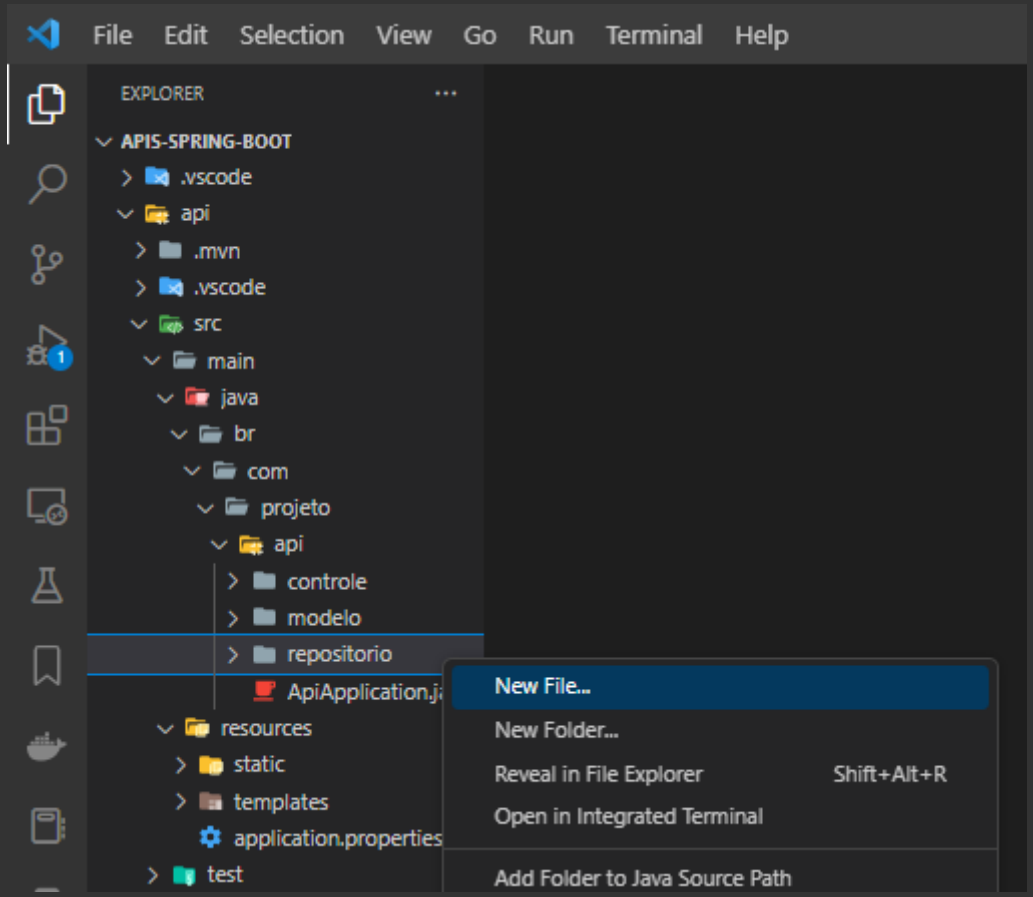
HELP.md
mvnw
mvnw.cmd
pom.xml
REDME.md
OUTLINE
New File...
New Folder...
Reveal in File Explorer Shift+Alt+R
Open in Integrated Terminal
Add Folder to Java Source Path
Remove Folder from Java Source Path
Find in Folder... Shift+Alt+F
Cut Ctrl+X
Copy Ctrl+C
Paste Ctrl+V
Copy Path Shift+Alt+C
Copy Relative Path Ctrl+K Ctrl+Shift+C
Rename... F2
Delete Delete
Create Maven Project



Crie a pasta repositorio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EXPLORER
APIS-SPRING-BOOT
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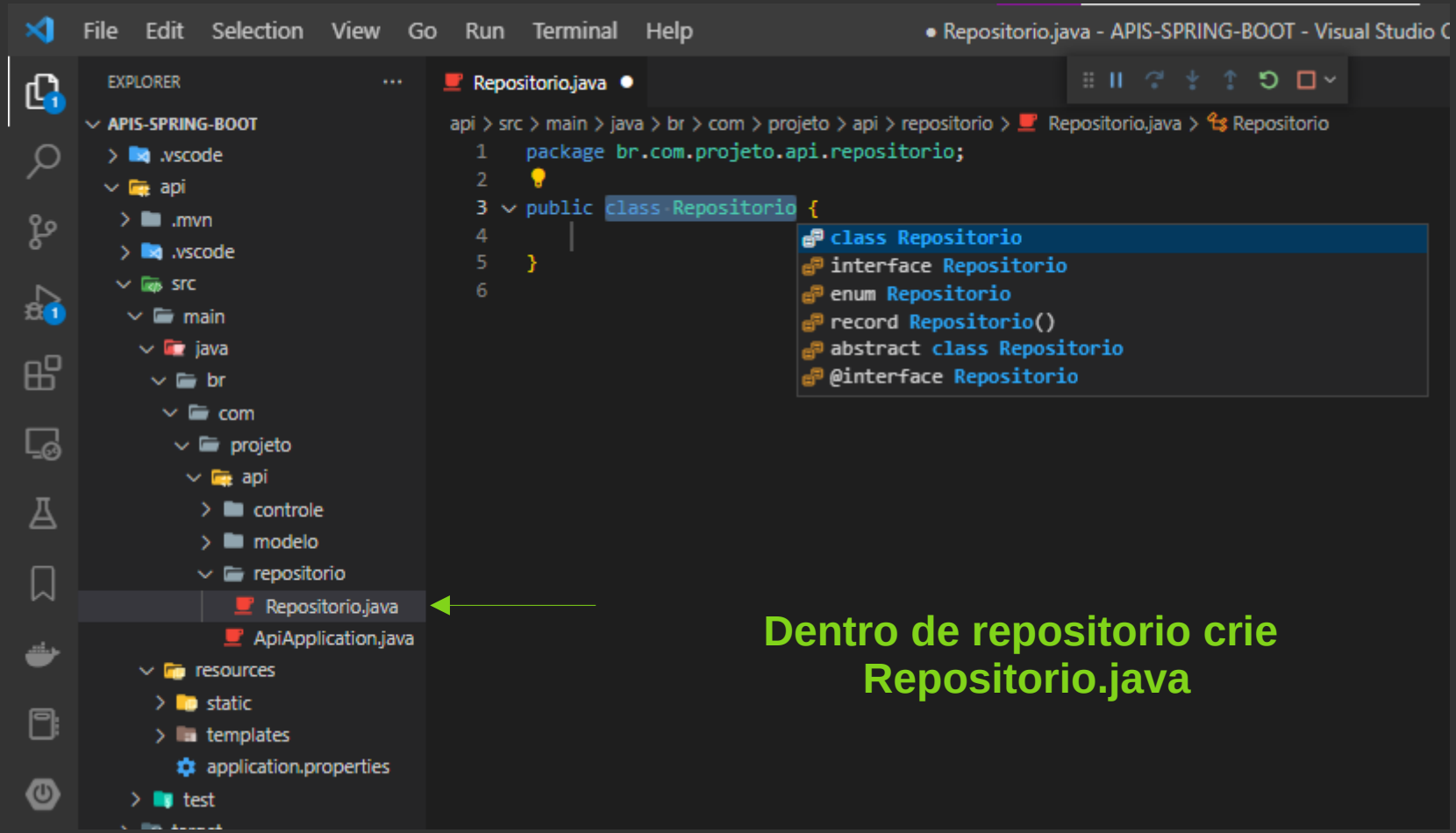
projeto
api
controle
modelo
repositorio
ApiApplication.j
resources
static
templates
application.properties
test
New File...
New Folder...
Reveal in File Explorer
Shift+Alt+R
Open in Integrated Terminal
Add Folder to Java Source Path


File Edit Selection View Go Run Terminal Help
• Repositorio.java - APIS-SPRING-BOOT - Visual Studio C
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resources
static
templates
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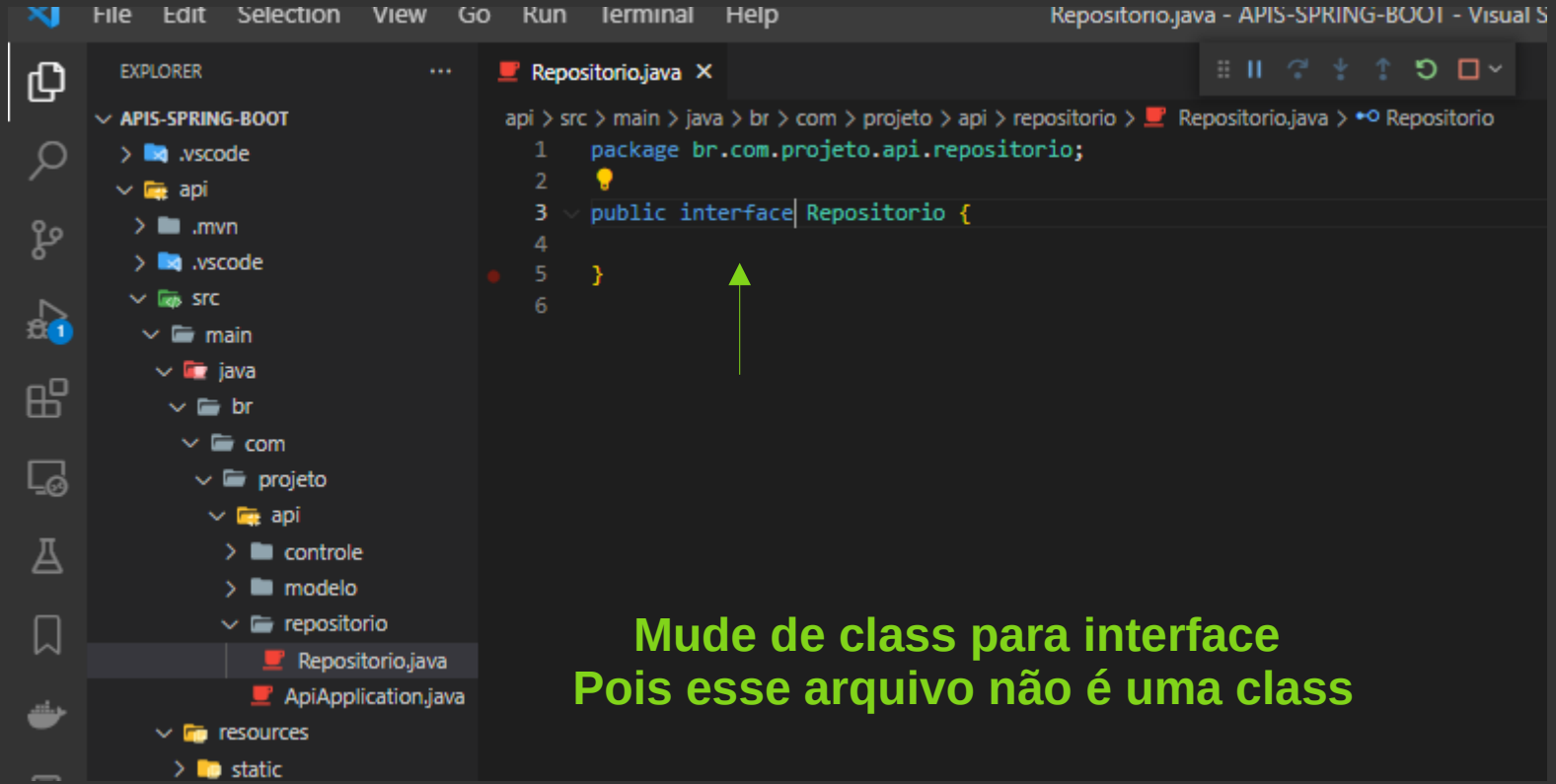
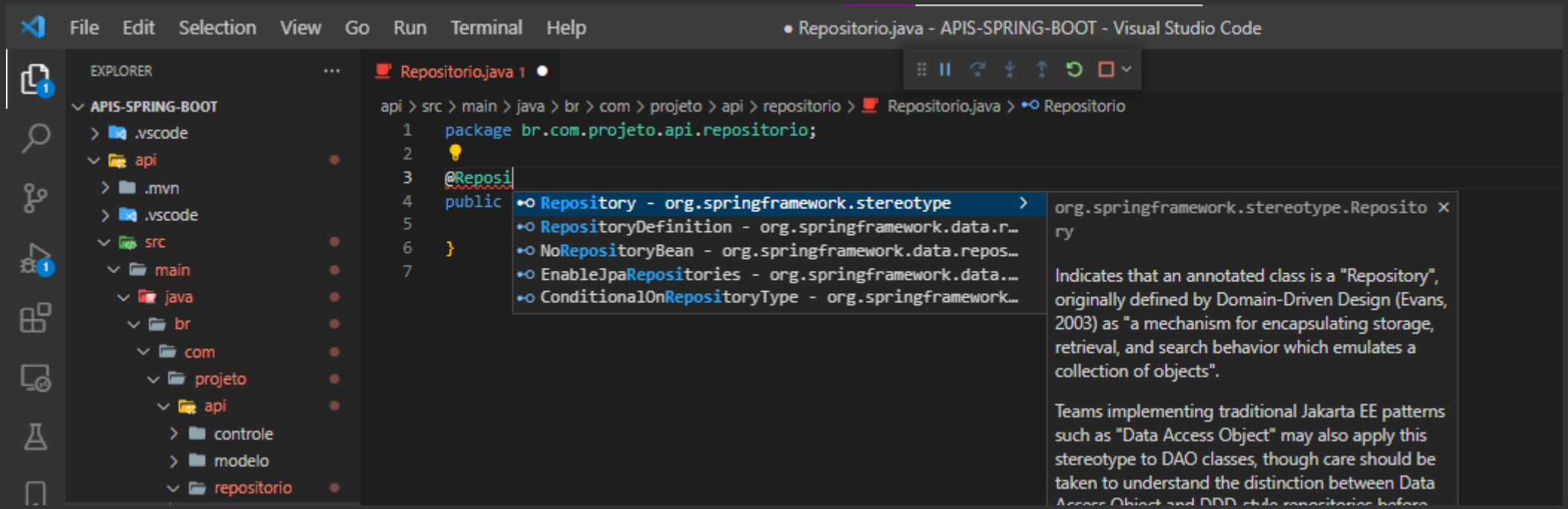
test
Repositorio.java
api > src > main > java > br > com > projeto > api > repositorio > Repositorio.java > Repositorio
1 package br.com.projeto.api.repositorio;
2
3 public class Repositorio {
4
5 }
6
class Repositorio
interface Repositorio
enum Repositorio
record Repositorio()
abstract class Repositorio
@interface Repositorio
Dentro de repositorio crie
Repositorio.java



Para o spring saber que é um repositorio adicionamos a anotation @Repository e seu import


File Edit Selection View Go Run Terminal Help
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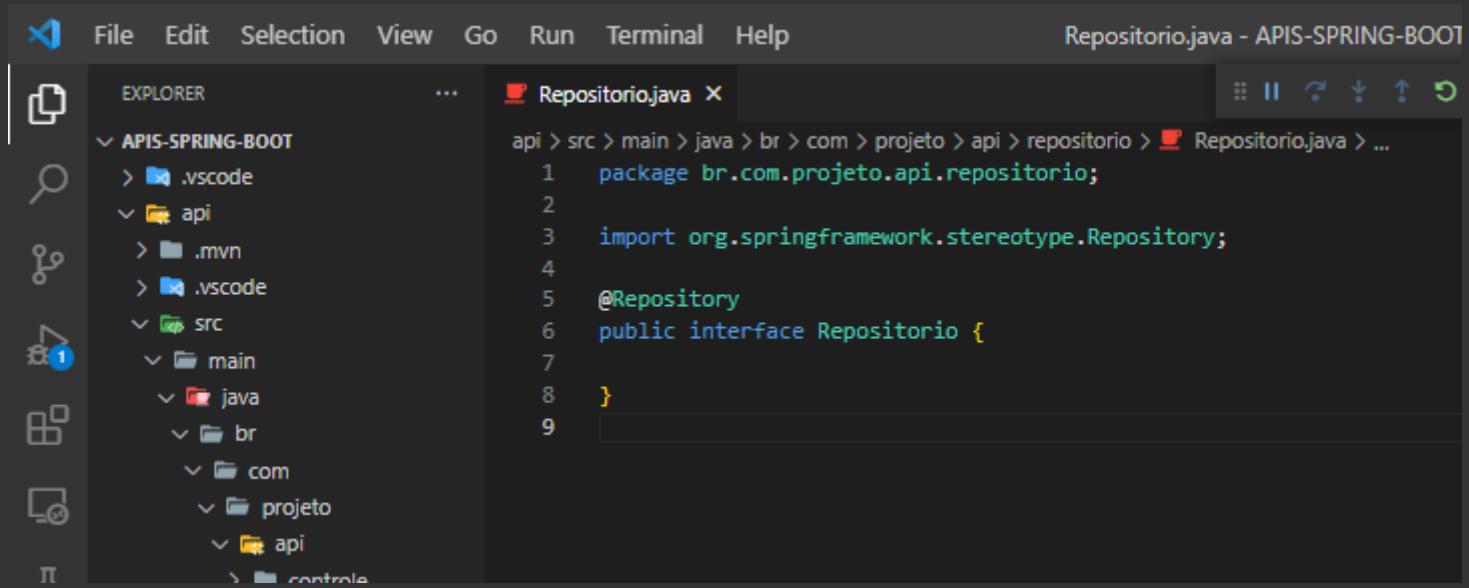
Repositorio.java 1
api > src > main > java > br > com > projeto > api > repositorio > Repositorio.java > Repositorio
1 package br.com.projeto.api.repositorio;
2
3 @Reposi
4 public
5
6 }
7
Repository - org.springframework.stereotype
RepositoryDefinition - org.springframework.data.r…
NoRepositoryBean - org.springframework.data.repos…
EnableJpaRepositories - org.springframework.data.…
ConditionalOnRepositoryType - org.springframework…
org.springframework.stereotype.Reposito ×
ry
Indicates that an annotated class is a "Repository", originally defined by Domain-Driven Design (Evans, 2003) as "a mechanism for encapsulating storage, retrieval, and search behavior which emulates a collection of objects".
Teams implementing traditional Jakarta EE patterns such as "Data Access Object" may also apply this stereotype to DAO classes, though care should be taken to understand the distinction between Data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Repositorio.java - APIS-SPRING-BOOT
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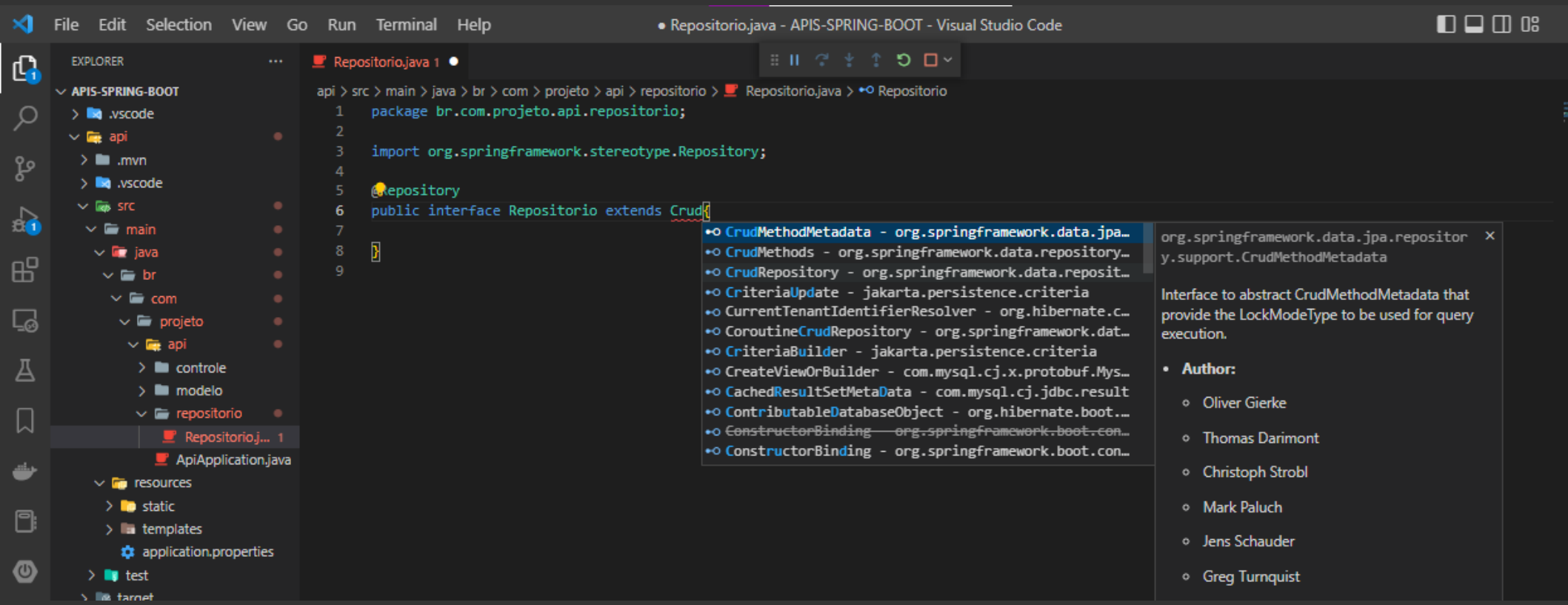
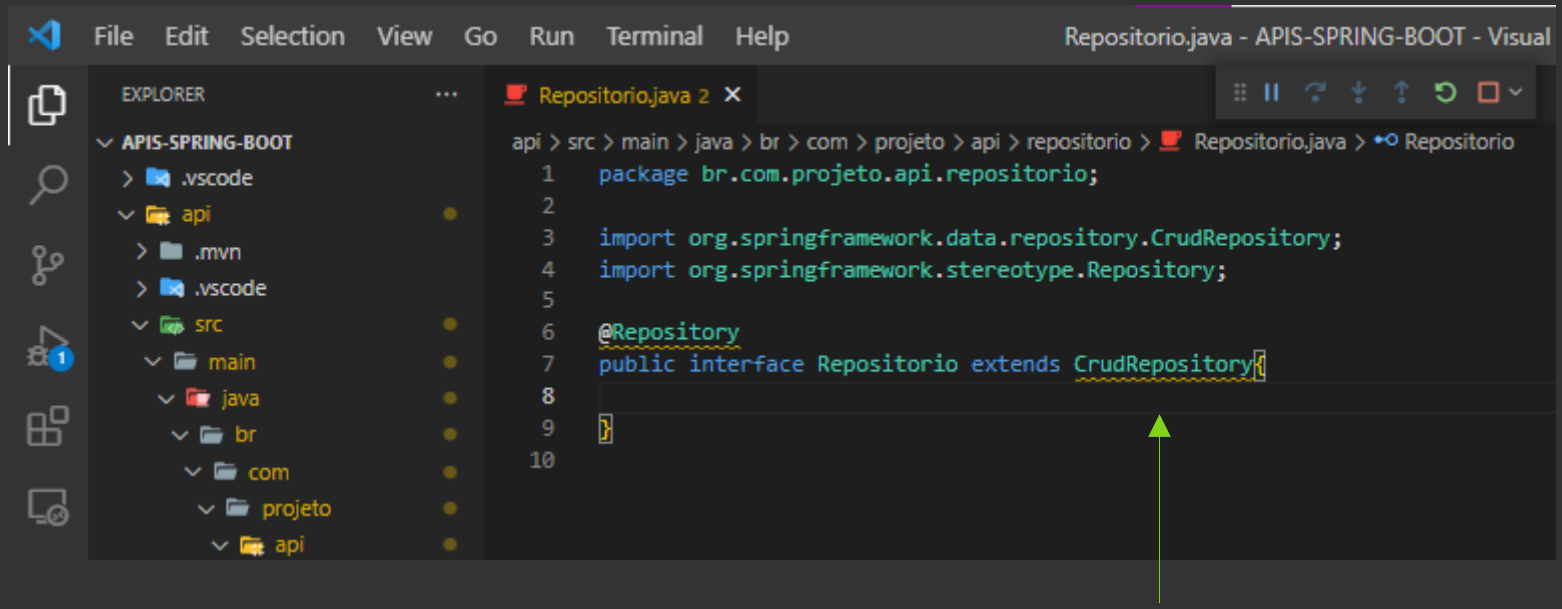
api
Repositorio.java
api > src > main > java > br > com > projeto > api > repositorio > Repositorio.java > ...
1 package br.com.projeto.api.repositorio;
2
3 import org.springframework.stereotype.Repository;
4
5 @Repository
6 public interface Repositorio {
7
8 }
9

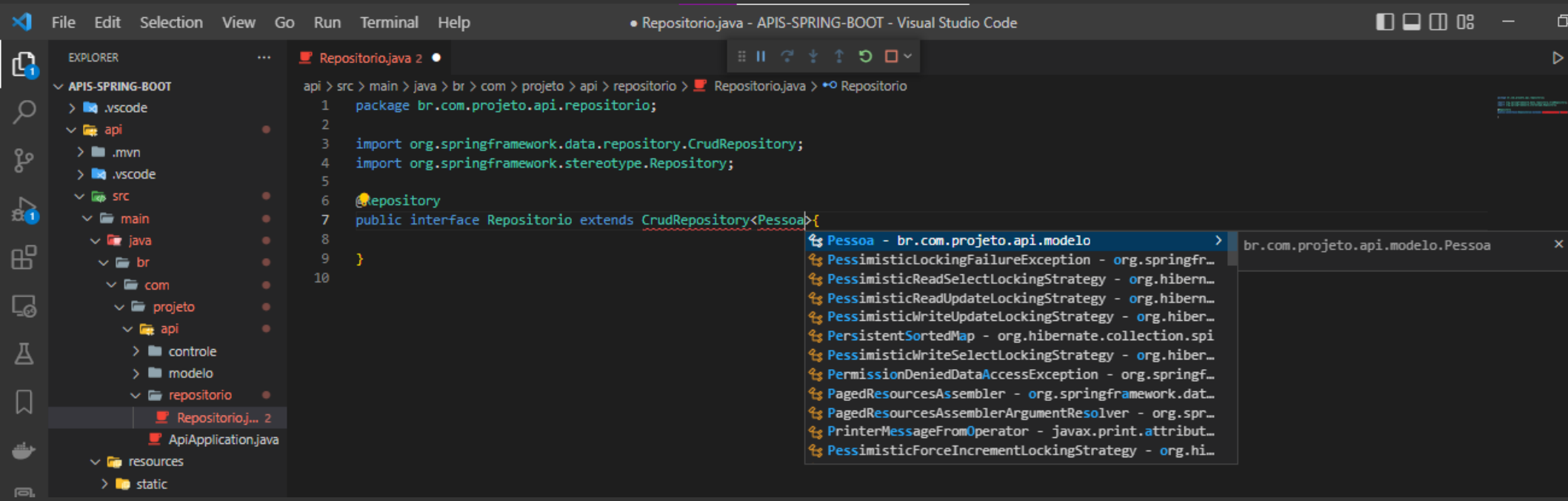


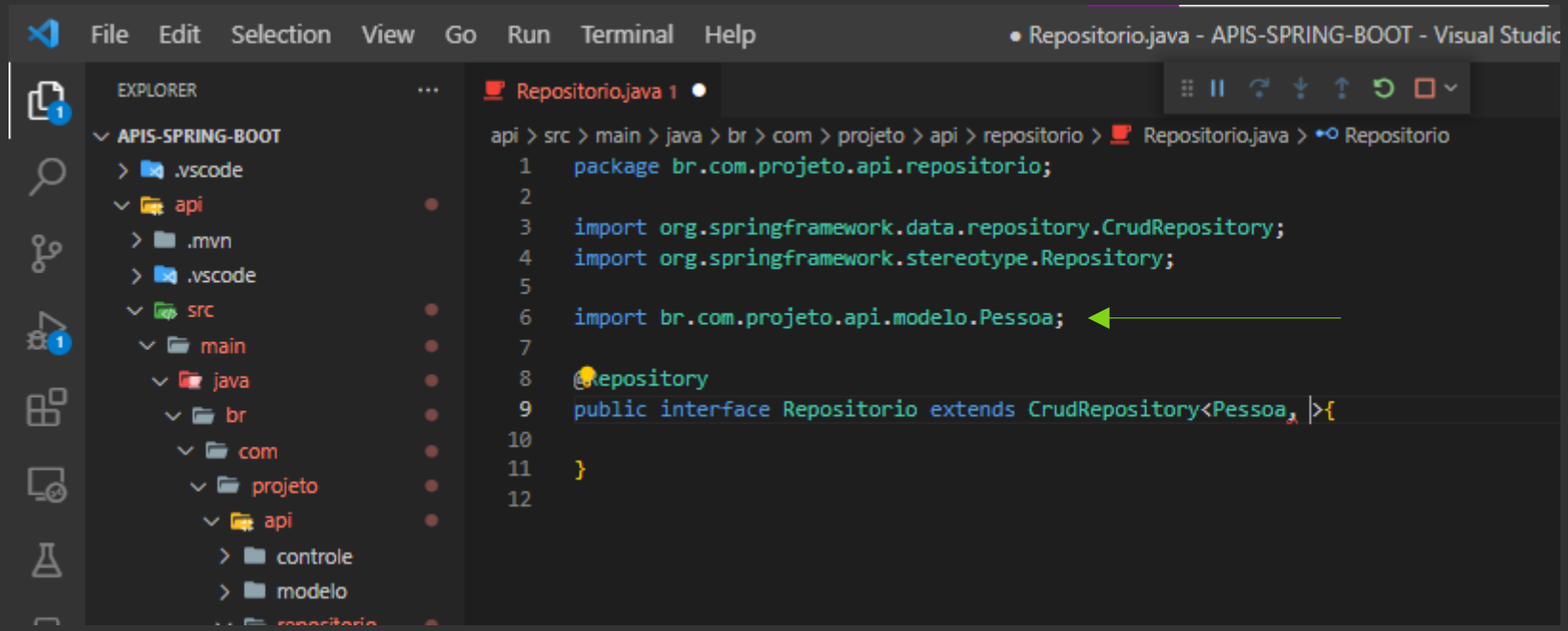
Usando extends criamos uma herança do metodo crudrepository que disponibiliza vários metodos para usarmos



Esse erro é gerado pois temos que passar para o crud o modelo que queremos trabalhar e o tipo de dado que é a nossa chave primaria vamos fazer

Primeiro adicionamos o modelo Pessoa e importamos




File Edit Selection View Go Run Terminal Help
• Repositorio.java - APIS-SPRING-BOOT - Visual Studio
EXPLORER
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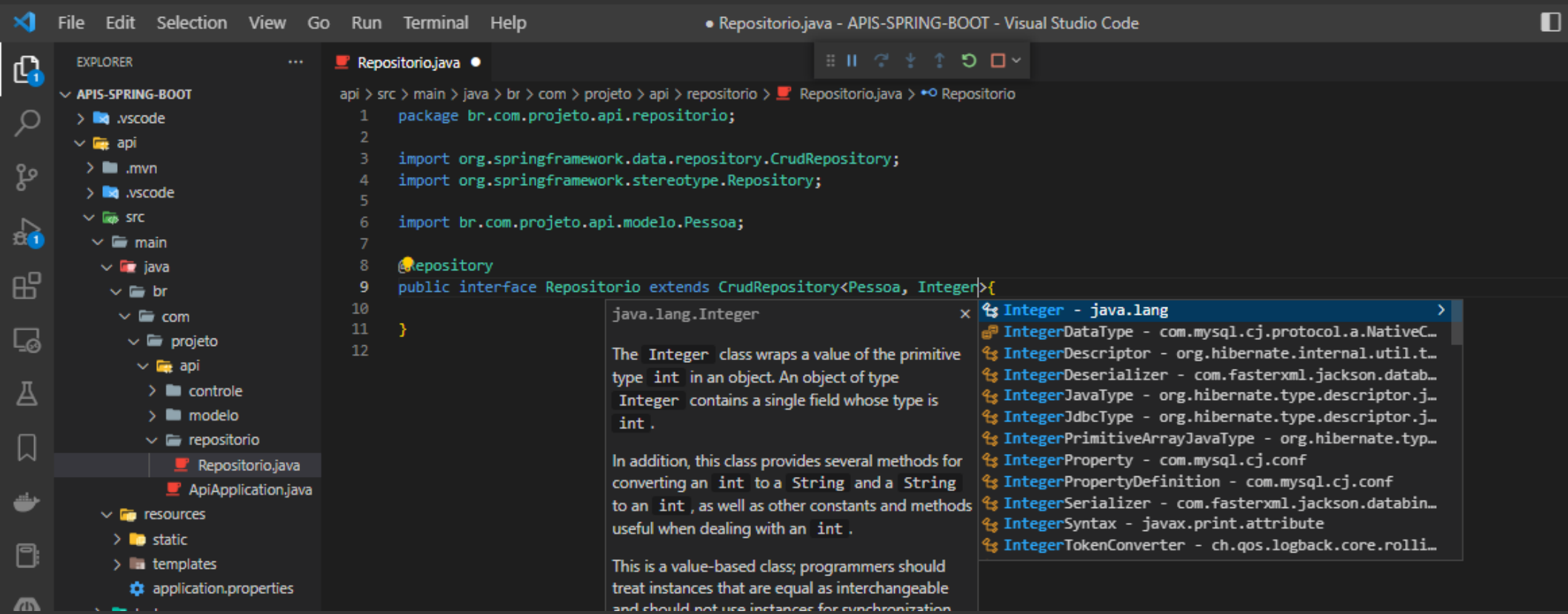
modelo
Repositorio.java 1
api > src > main > java > br > com > projeto > api > repositorio > Repositorio.java > Repositorio
1 package br.com.projeto.api.repositorio;
2
3 import org.springframework.data.repository.CrudRepository;
4 import org.springframework.stereotype.Repository;
5
6 import br.com.projeto.api.modelo.Pessoa;
7
8 @Repository
9 public interface Repositorio extends CrudRepository<Pessoa, >{
10
11 }
12

O próximo dado é o tipo que sempre vai ter que ser uma classe que definimos no nosso modelo como int e o crudrepositorio não aceita tipos primitivos
Por isso ultilizamos a classe interger vamos fazer


File Edit Selection View Go Run Terminal Help
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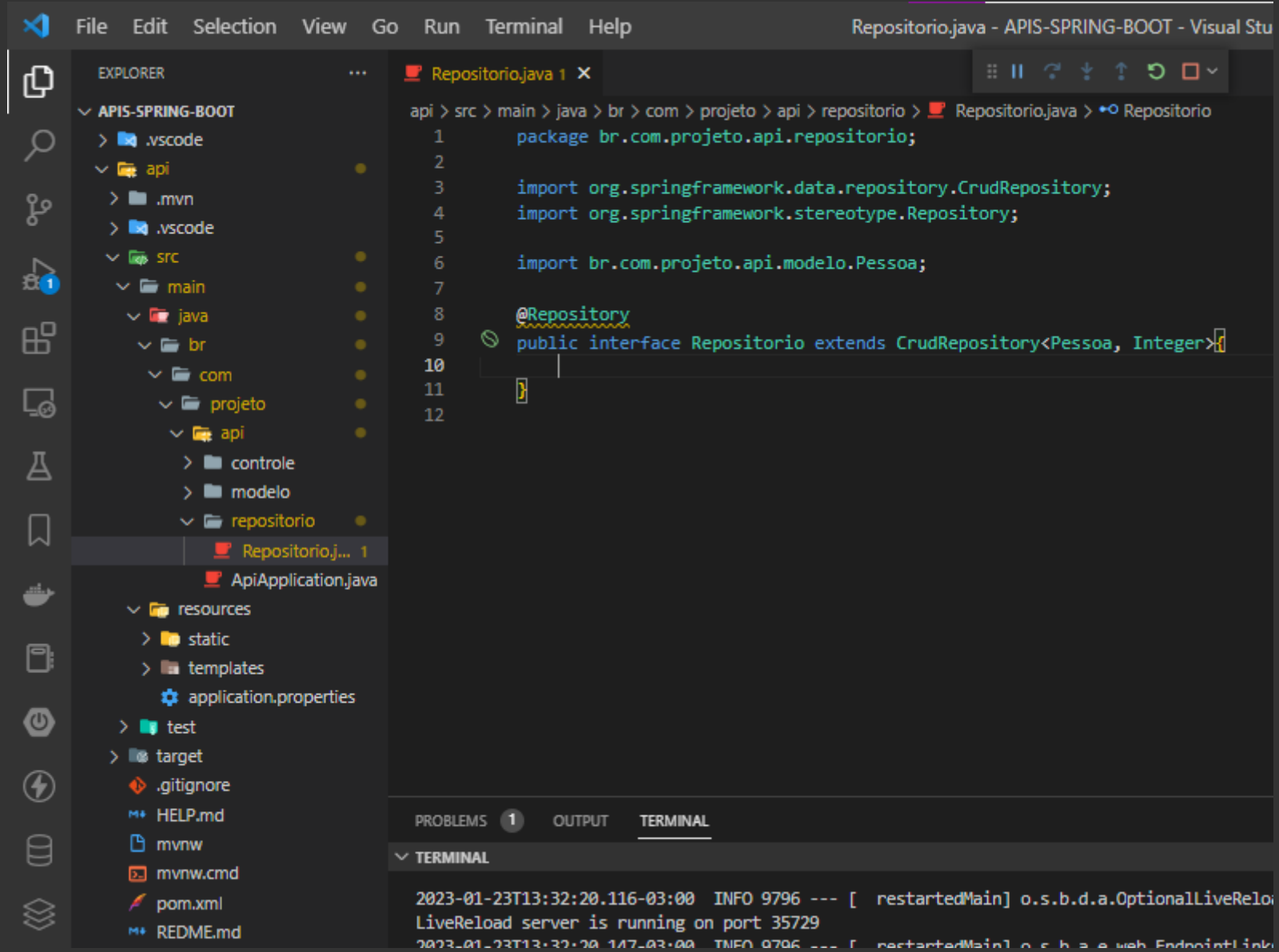
Repositorio.java
ApiApplication.java
resources
static
templates
application.properties
Repositorio.java
api > src > main > java > br > com > projeto > api > repositorio > Repositorio.java > Repositorio
1 package br.com.projeto.api.repositorio;
2
3 import org.springframework.data.repository.CrudRepository;
4 import org.springframework.stereotype.Repository;
5
6 import br.com.projeto.api.modelo.Pessoa;
7
8 @Repository
9 public interface Repositorio extends CrudRepository<Pessoa, Integer>{
10
11 }
12
java.lang.Integer
The Integer class wraps a value of the primitive type int in an object. An object of type Integer contains a single field whose type is int .
In addition, this class provides several methods for converting an int to a String and a String to an int , as well as other constants and methods useful when dealing with an int .
This is a value-based class; programmers should treat instances that are equal as interchangeable
Integer - java.lang
IntegerDataType - com.mysql.cj.protocol.a.NativeC…
IntegerDescriptor - org.hibernate.internal.util.t…
IntegerDeserializer - com.fasterxml.jackson.datab…
IntegerJavaType - org.hibernate.type.descriptor.j…
IntegerJdbcType - org.hibernate.type.descriptor.j…
IntegerPrimitiveArrayJavaType - org.hibernate.typ…
IntegerProperty - com.mysql.cj.conf
IntegerPropertyDefinition - com.mysql.cj.conf
IntegerSerializer - com.fasterxml.jackson.databin…
IntegerSyntax - javax.print.attribute
IntegerTokenConverter - ch.qos.logback.core.rolli…


File Edit Selection View Go Run Terminal Help
Repositorio.java - APIS-SPRING-BOOT - Visual Stu
EXPLORER
APIS-SPRING-BOOT
.vscode
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.mvn
.vscode
src
main
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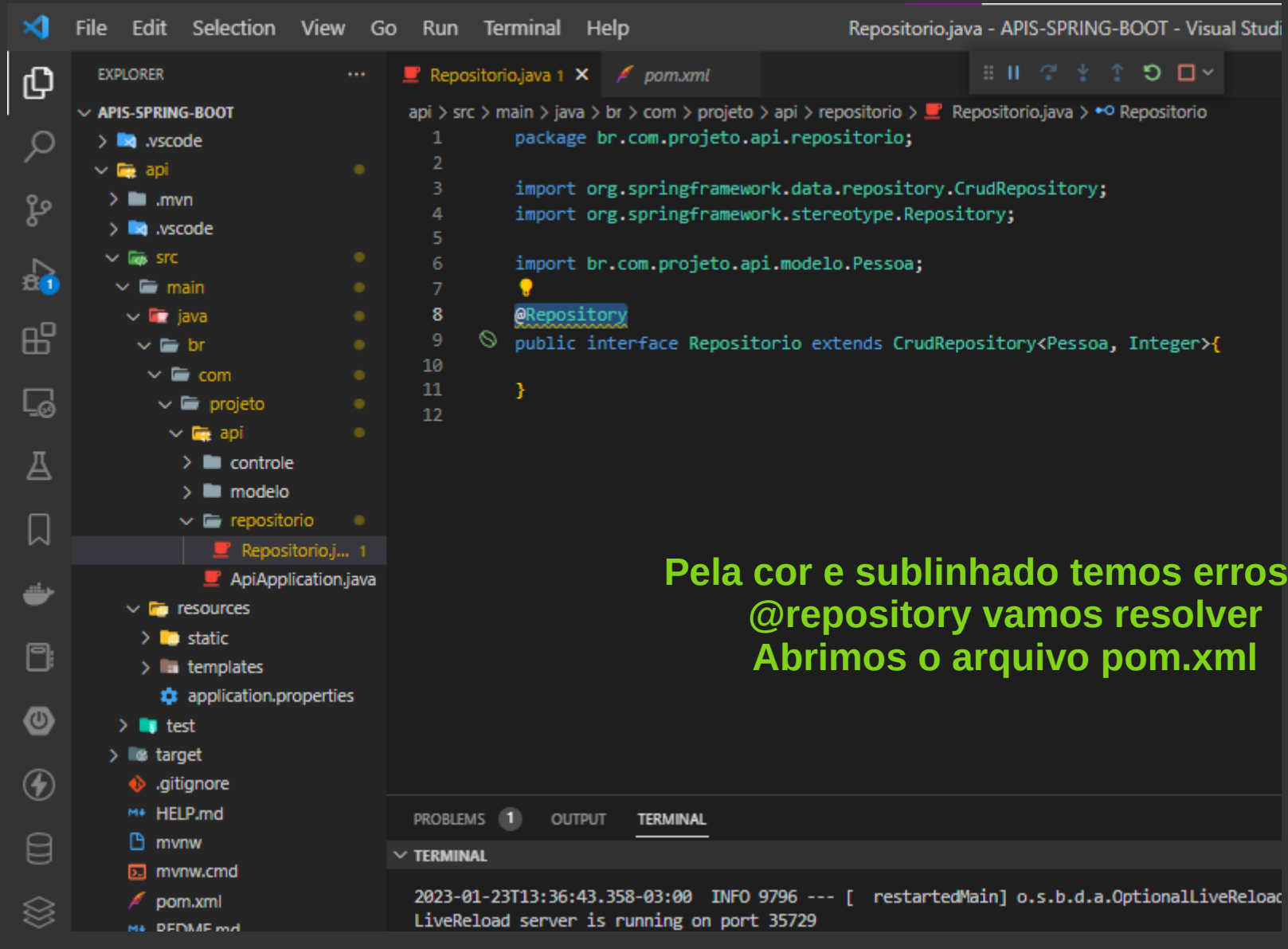
Repositorio.java 1
api > src > main > java > br > com > projeto > api > repositorio > Repositorio.java > Repositorio
1 package br.com.projeto.api.repositorio;
2
3 import org.springframework.data.repository.CrudRepository;
4 import org.springframework.stereotype.Repository;
5
6 import br.com.projeto.api.modelo.Pessoa;
7
8 @Repository
9 public interface Repositorio extends CrudRepository<Pessoa, Integer>{
10
11 }
12
PROBLEMS 1
OUTPUT
TERMINAL
TERMINAL
2023-01-23T13:32:20.116-03:00 INFO 9796 --- [restartedMain] o.s.b.d.a.OptionalLiveRelo
LiveReload server is running on port 35729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Repositorio.java - APIS-SPRING-BOOT - Visual Studi
EXPLORER
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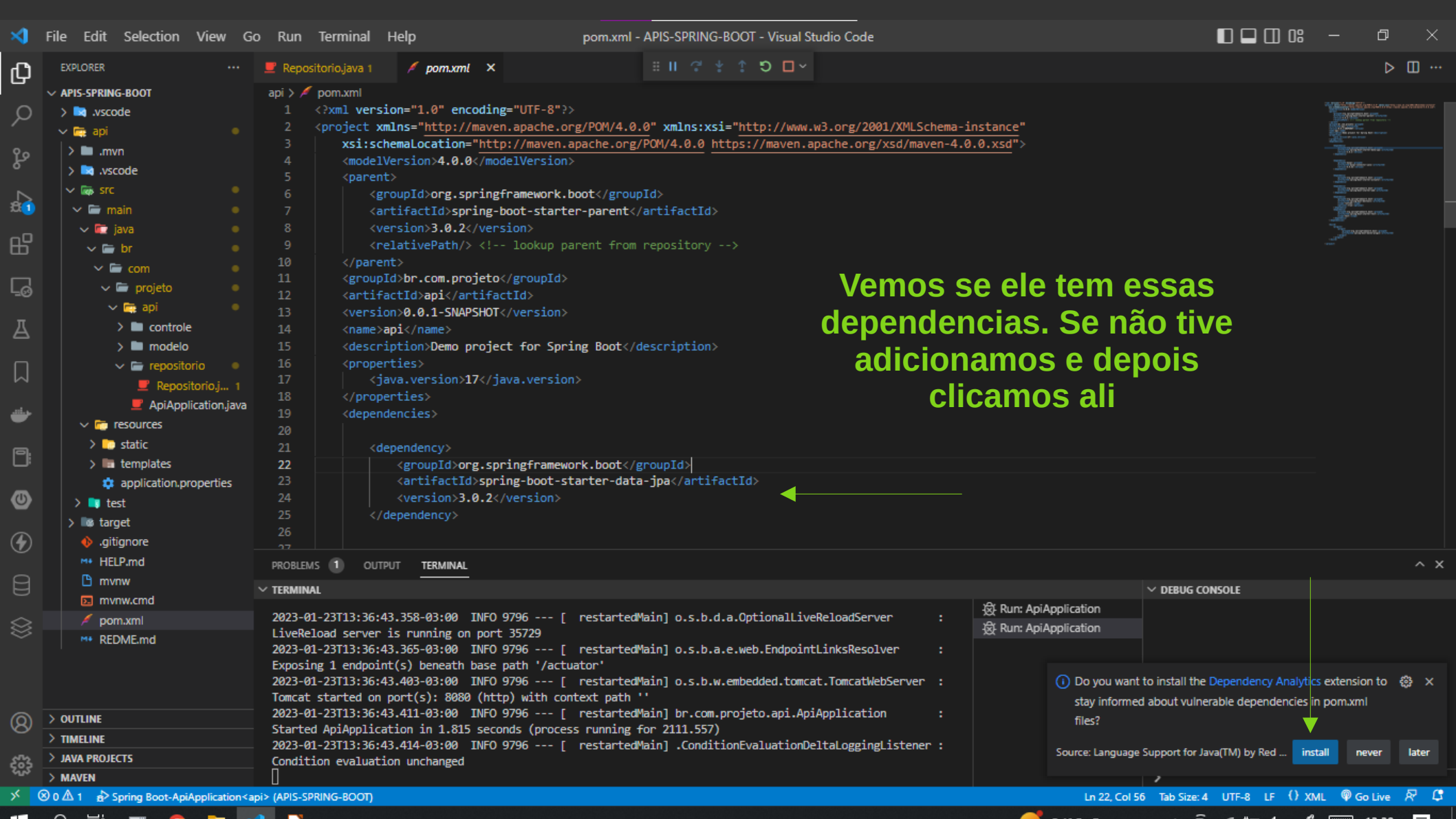
Repositorio.java 1
pom.xml
api > src > main > java > br > com > projeto > api > repositorio > Repositorio.java > Repositorio
1 package br.com.projeto.api.repositorio;
2
3 import org.springframework.data.repository.CrudRepository;
4 import org.springframework.stereotype.Repository;
5
6 import br.com.projeto.api.modelo.Pessoa;
7
8 @Repository
9 public interface Repositorio extends CrudRepository<Pessoa, Integer>{
10
11 }
12
Pela cor e sublinhado temos erros no
@repository vamos resolver
Abrimos o arquivo pom.xml
PROBLEMS 1
OUTPUT
TERMINAL
TERMINAL
2023-01-23T13:36:43.358-03:00 INFO 9796 --- [restartedMain] o.s.b.d.a.OptionalLiveReloac
LiveReload server is running on port 35729


File Edit Selection View Go Run Terminal Help
pom.xml - APIS-SPRING-BOOT - Visual Studio Code
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APIS-SPRING-BOOT
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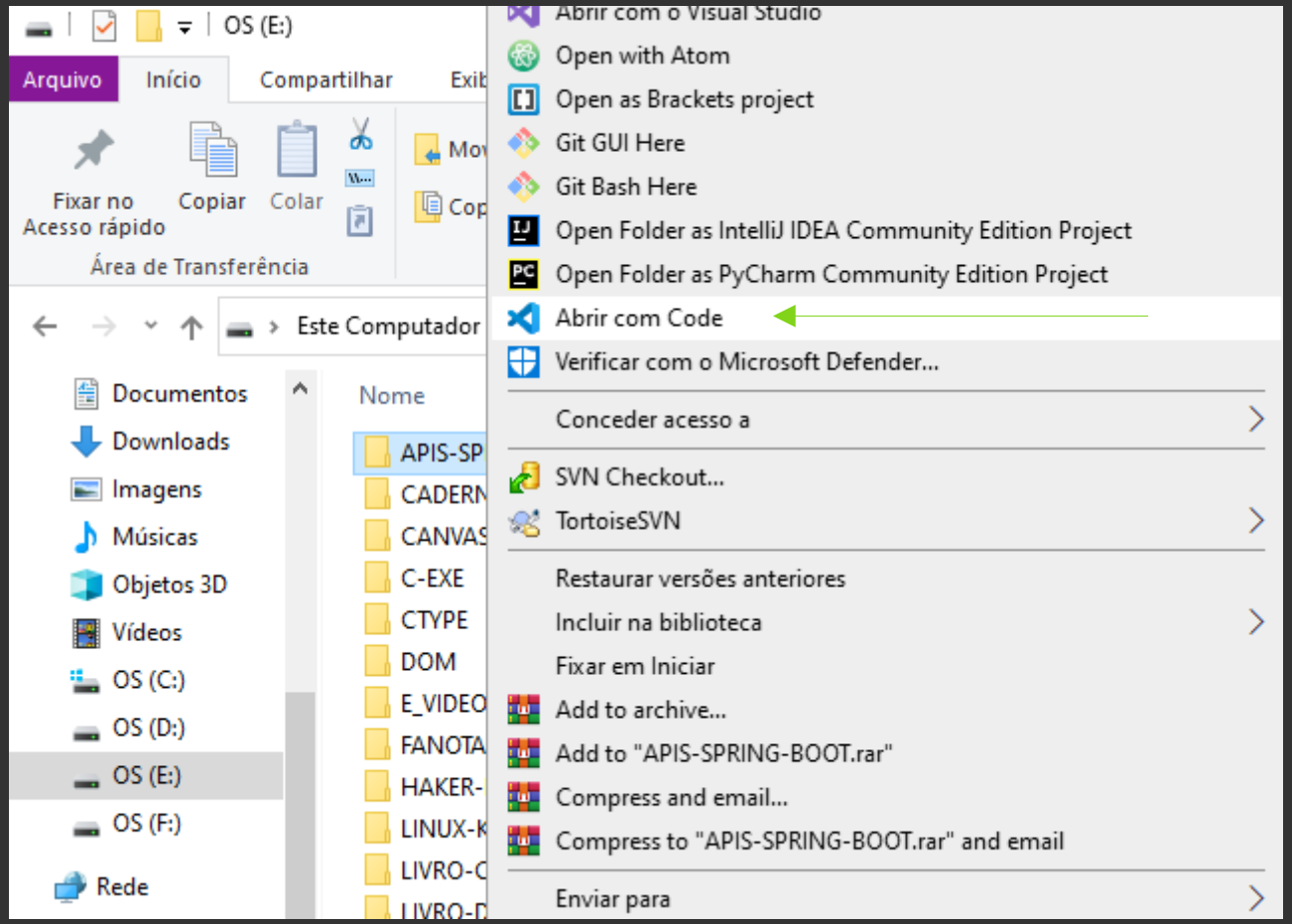
pom.xml
api > pom.xml
1 <?xml version="1.0" encoding="UTF-8"?>
2 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3 xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">
4 <modelVersion>4.0.0</modelVersion>
5 <parent>
6 <groupId>org.springframework.boot</groupId>
7 <artifactId>spring-boot-starter-parent</artifactId>
8 <version>3.0.2</version>
9 <relativePath/> <!-- lookup parent from repository -->
10 </parent>
11 <groupId>br.com.projeto</groupId>
12 <artifactId>api</artifactId>
13 <version>0.0.1-SNAPSHOT</version>
14 <name>api</name>
15 <description>Demo project for Spring Boot</description>
16 <properties>
17 <java.version>17</java.version>
18 </properties>
19 <dependencies>
20
21 <dependency>
22 <groupId>org.springframework.boot</groupId>
23 <artifactId>spring-boot-starter-data-jpa</artifactId>
24 <version>3.0.2</version>
25 </dependency>
26
Vemos se ele tem essas dependencias. Se não tive adicionamos e depois clicamos ali
PROBLEMS 1
OUTPUT
TERMINAL
TERMINAL
2023-01-23T13:36:43.358-03:00 INFO 9796 --- [restartedMain] o.s.b.d.a.OptionalLiveReloadServer :
LiveReload server is running on port 35729
2023-01-23T13:36:43.365-03:00 INFO 9796 --- [restartedMain] o.s.b.a.e.web.EndpointLinksResolver :
Exposing 1 endpoint(s) beneath base path '/actuator'
2023-01-23T13:36:43.403-03:00 INFO 9796 --- [restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer :
Tomcat started on port(s): 8080 (http) with context path ''
2023-01-23T13:36:43.411-03:00 INFO 9796 --- [restartedMain] br.com.projeto.api.ApiApplication :
Started ApiApplication in 1.815 seconds (process running for 2111.557)
2023-01-23T13:36:43.414-03:00 INFO 9796 --- [restartedMain] .ConditionEvaluationDeltaLoggingListener :
Condition evaluation unchanged
Run: ApiApplication
Run: ApiApplication
DEBUG CONSOLE
Do you want to install the Dependency Analytics extension to stay informed about vulnerable dependencies in pom.xml files?
Source: Language Support for Java(TM) by Red ...
install
never
later
OUTLINE
TIMELINE
JAVA PROJECTS
MAVEN
Spring Boot-ApiApplication<api> (APIS-SPRING-BOOT)
Ln 22, Col 56
Tab Size: 4
UTF-8
LF
XML
Go Live

Essa solução não funcionou nem tirando a versão da dependencia
Lendo a pagina mandaram fechar o spring e abrir novamente vamos tentar fechar e reabrir

Fechei e abri de novo o vscode



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

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                  - controle
                  - modelo
                  - repositorio
                    - Repositorio.java
                    - ApiApplication.java
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          - templates
          - application.properties
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    - pom.xml
    - REDME.md

Repositorio.java × | pom.xml

api > src > main > java > br > com > projeto > api > repositorio > Repositorio.java > ...

```java
package br.com.projeto.api.repositorio;

import org.springframework.data.repository.CrudRepository;
import org.springframework.stereotype.Repository;

import br.com.projeto.api.modelo.Pessoa;

@Repository
public interface Repositorio extends CrudRepository<Pessoa, Integer>{

}

```

E o erro sumiu voltou o erro

PROBLEMS OUTPUT TERMINAL

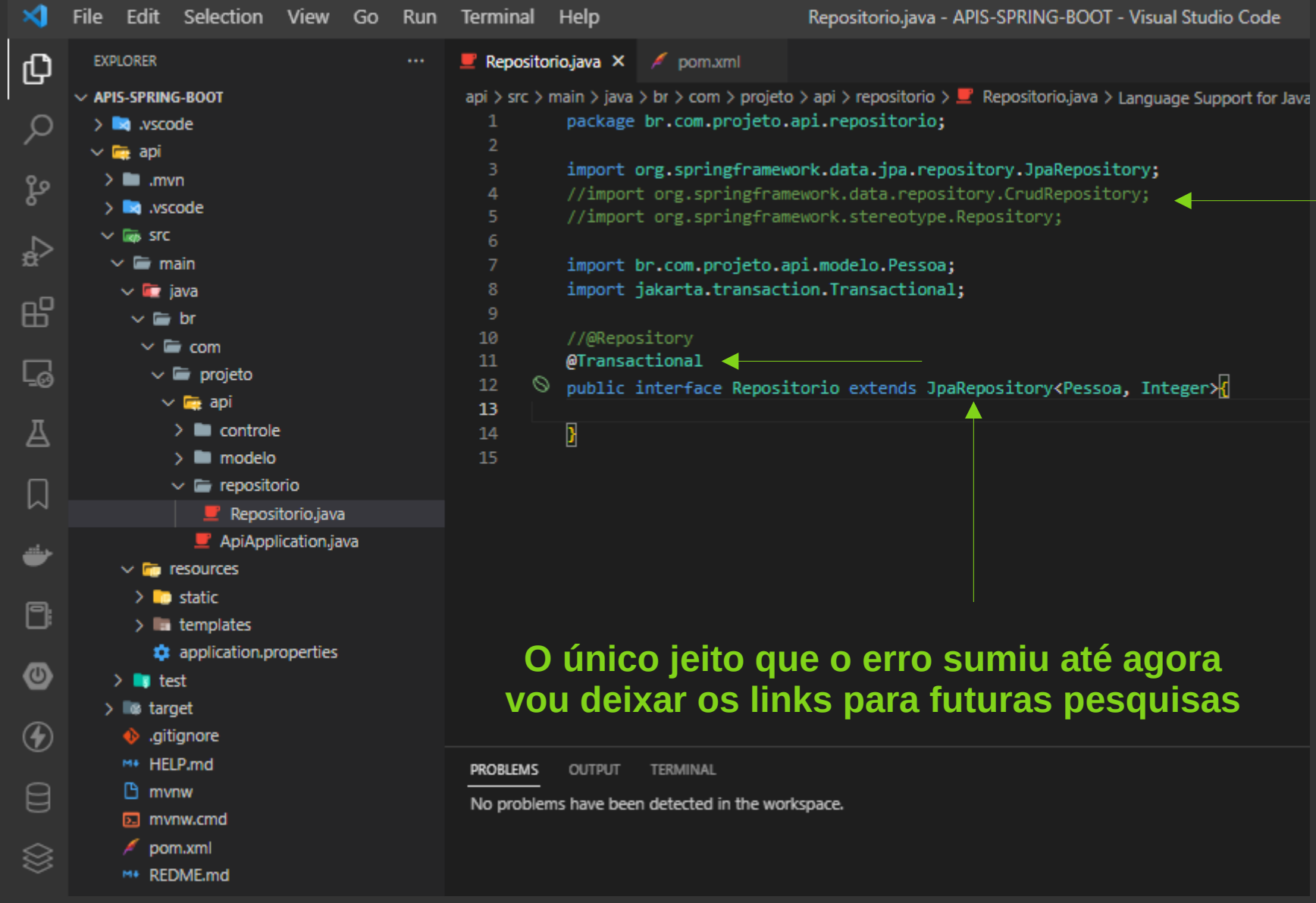
TERMINAL

```
Experimente a nova plataforma cruzada PowerShell https://aka.ms/pscore6
-
PS E:\APIS-SPRING-BOOT>
* History restored

Windows PowerShell
Copyright (C) Microsoft Corporation. Todos os direitos reservados.

Experimente a nova plataforma cruzada PowerShell https://aka.ms/pscore6

PS E:\APIS-SPRING-BOOT>
```

DEBUG CONSOLE

OUTLINE
TIMELINE
JAVA PROJECTS
MAVEN

0 0 — Ln 12, Col 1 — Spaces: 4 — UTF-8 — CRLF — Java — Go Live


File Edit Selection View Go Run Terminal Help
Repositorio.java - APIS-SPRING-BOOT - Visual Studio Code
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Repositorio.java
pom.xml
api > src > main > java > br > com > projeto > api > repositorio > Repositorio.java > Language Support for Java
1 package br.com.projeto.api.repositorio;
2
3 import org.springframework.data.jpa.repository.JpaRepository;
4 //import org.springframework.data.repository.CrudRepository;
5 //import org.springframework.stereotype.Repository;
6
7 import br.com.projeto.api.modelo.Pessoa;
8 import jakarta.transaction.Transactional;
9
10 //@Repository
11 @Transactional
12 public interface Repositorio extends JpaRepository<Pessoa, Integer>{
13
14 }
15
O único jeito que o erro sumiu até agora
vou deixar os links para futuras pesquisas
PROBLEMS
OUTPUT
TERMINAL
No problems have been detected in the workspace.

https://spring.io/blog/2011/02/10/getting-started-with-spring-data-jpa

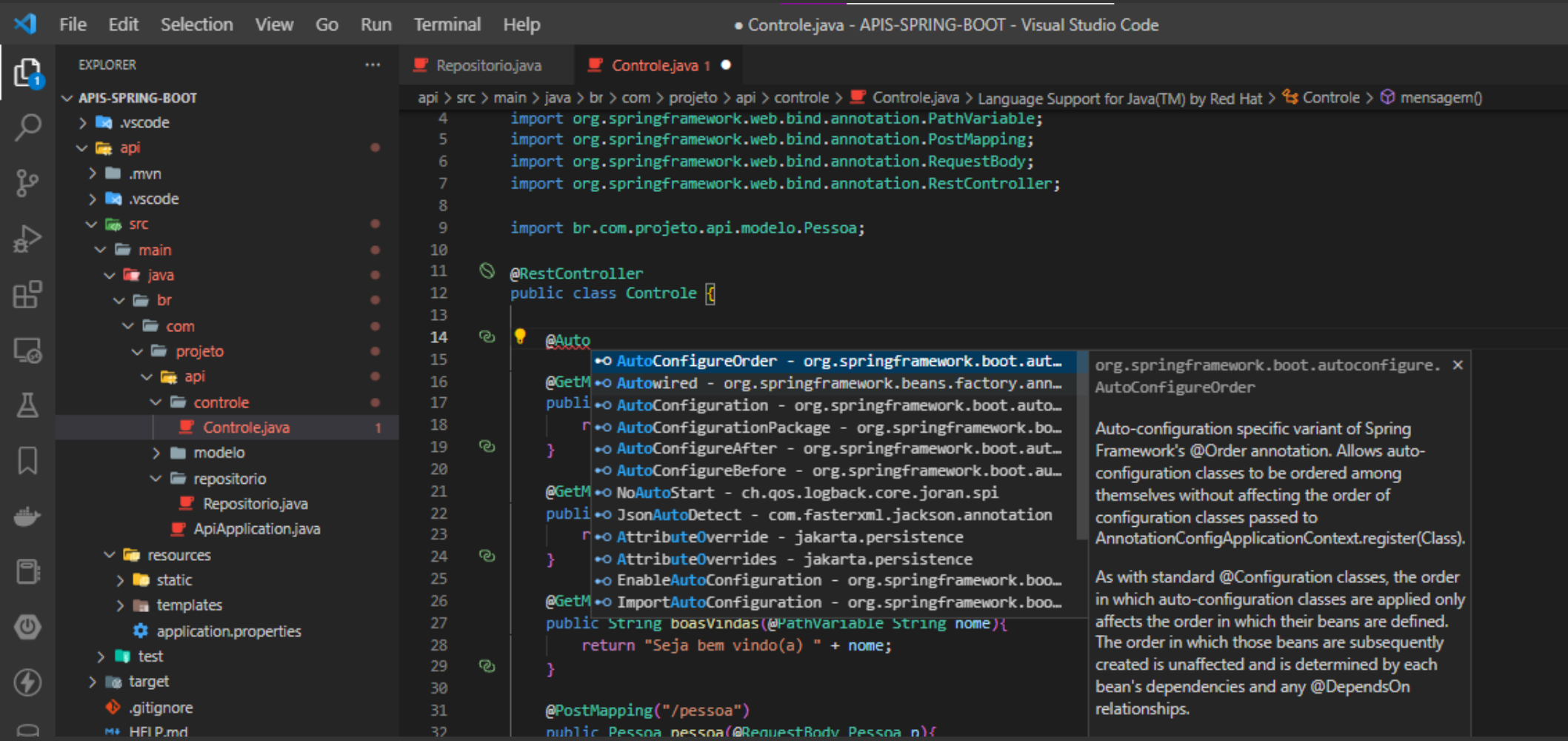
https://www.youtube.com/watch?v=ReZG1Cv60Bs

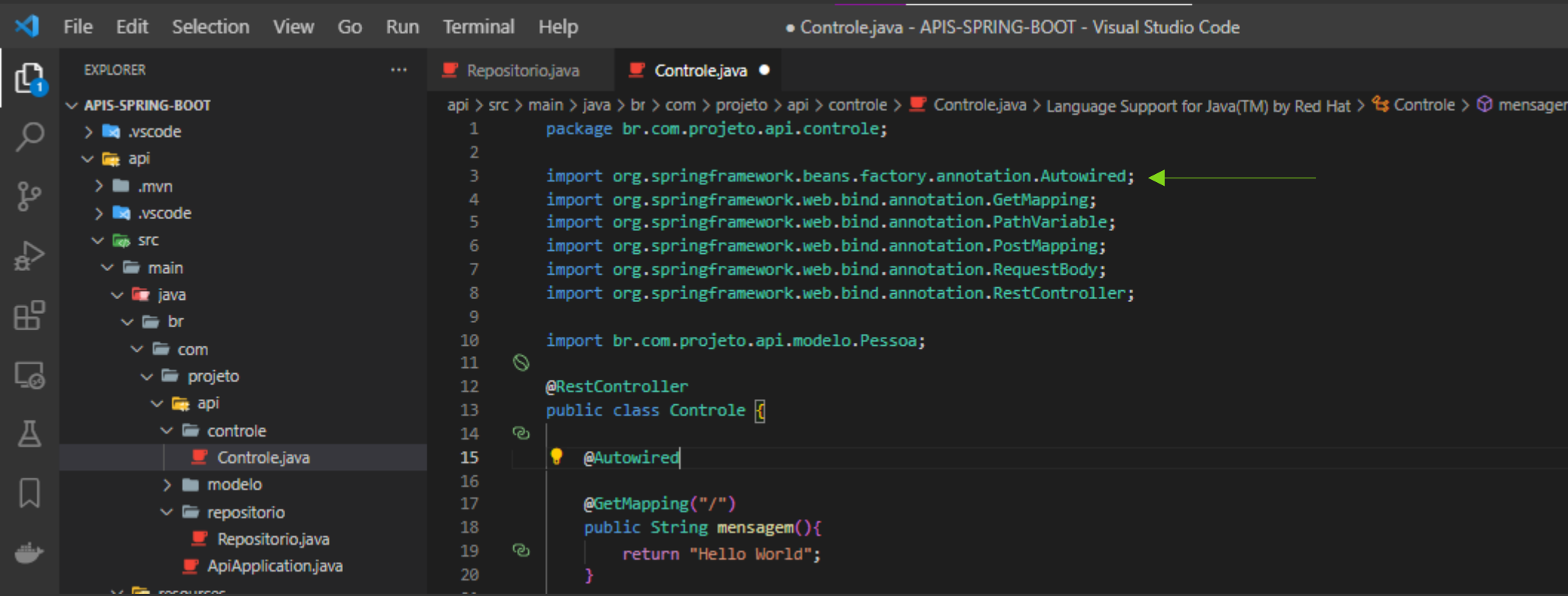
Podemos ir na pagina do tutorial e na pagina da api
Qualquer erro podemos voltar a versao antiga mas o próprio professor disse não existir problemas

#15
ANNOTATION @Autowired

Pra que ela serve a @AutoWired?
Para o desenvolvedor não precisar instanciar objetos pra ter acesso a determinados metodos isso é chamado de injeção de denpendencias

Adicione o @AutoWired e seu import




File Edit Selection View Go Run Terminal Help
• Controle.java - APIS-SPRING-BOOT - Visual Studio Code
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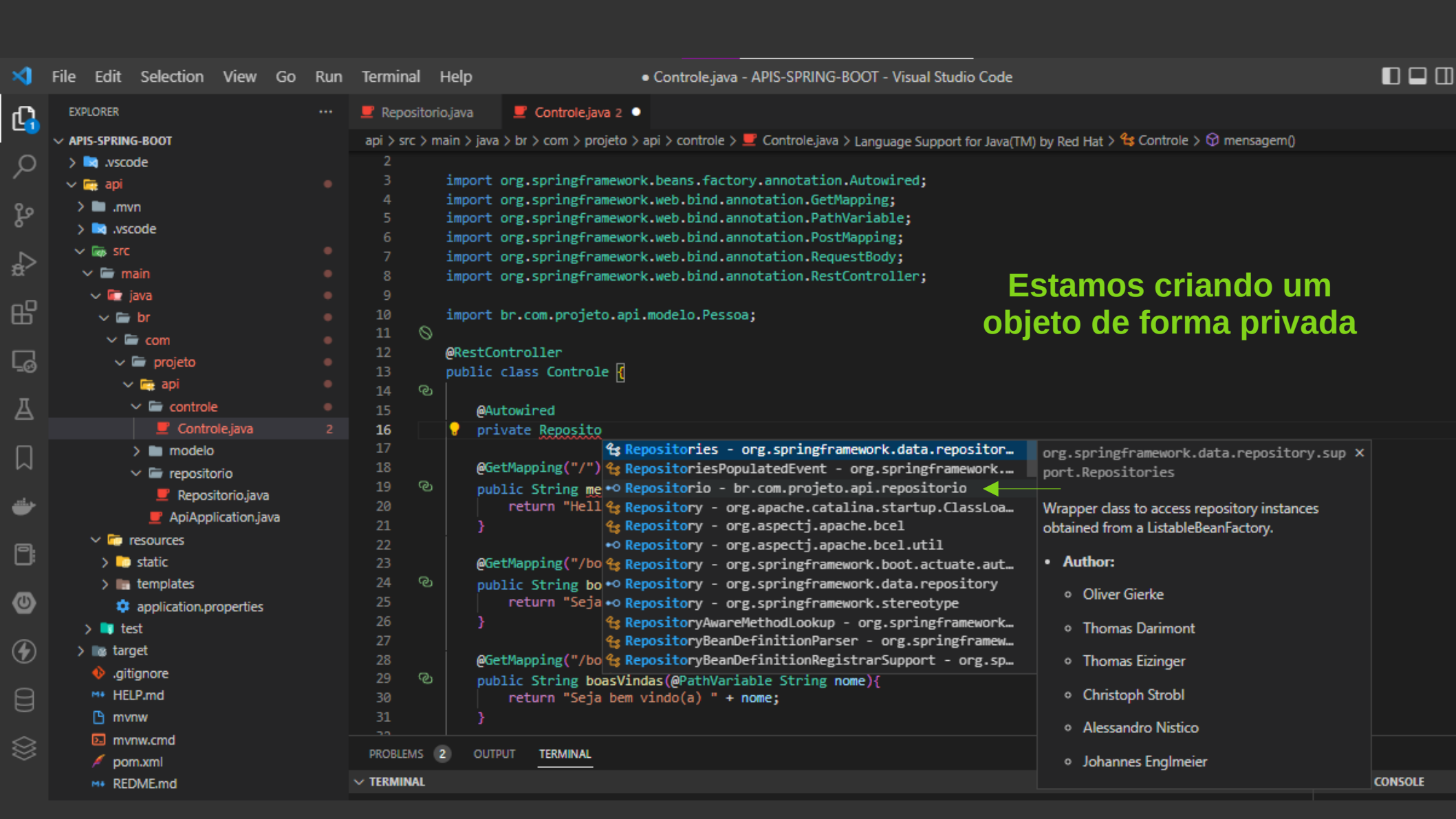
Repositorio.java
ApiApplication.java
Repositorio.java
Controle.java
api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Java(TM) by Red Hat > Controle > mensager
1 package br.com.projeto.api.controle;
2
3 import org.springframework.beans.factory.annotation.Autowired;
4 import org.springframework.web.bind.annotation.GetMapping;
5 import org.springframework.web.bind.annotation.PathVariable;
6 import org.springframework.web.bind.annotation.PostMapping;
7 import org.springframework.web.bind.annotation.RequestBody;
8 import org.springframework.web.bind.annotation.RestController;
9
10 import br.com.projeto.api.modelo.Pessoa;
11
12 @RestController
13 public class Controle {
14
15 @Autowired
16
17 @GetMapping("/")
18 public String mensagem(){
19 return "Hello World";
20 }


File Edit Selection View Go Run Terminal Help
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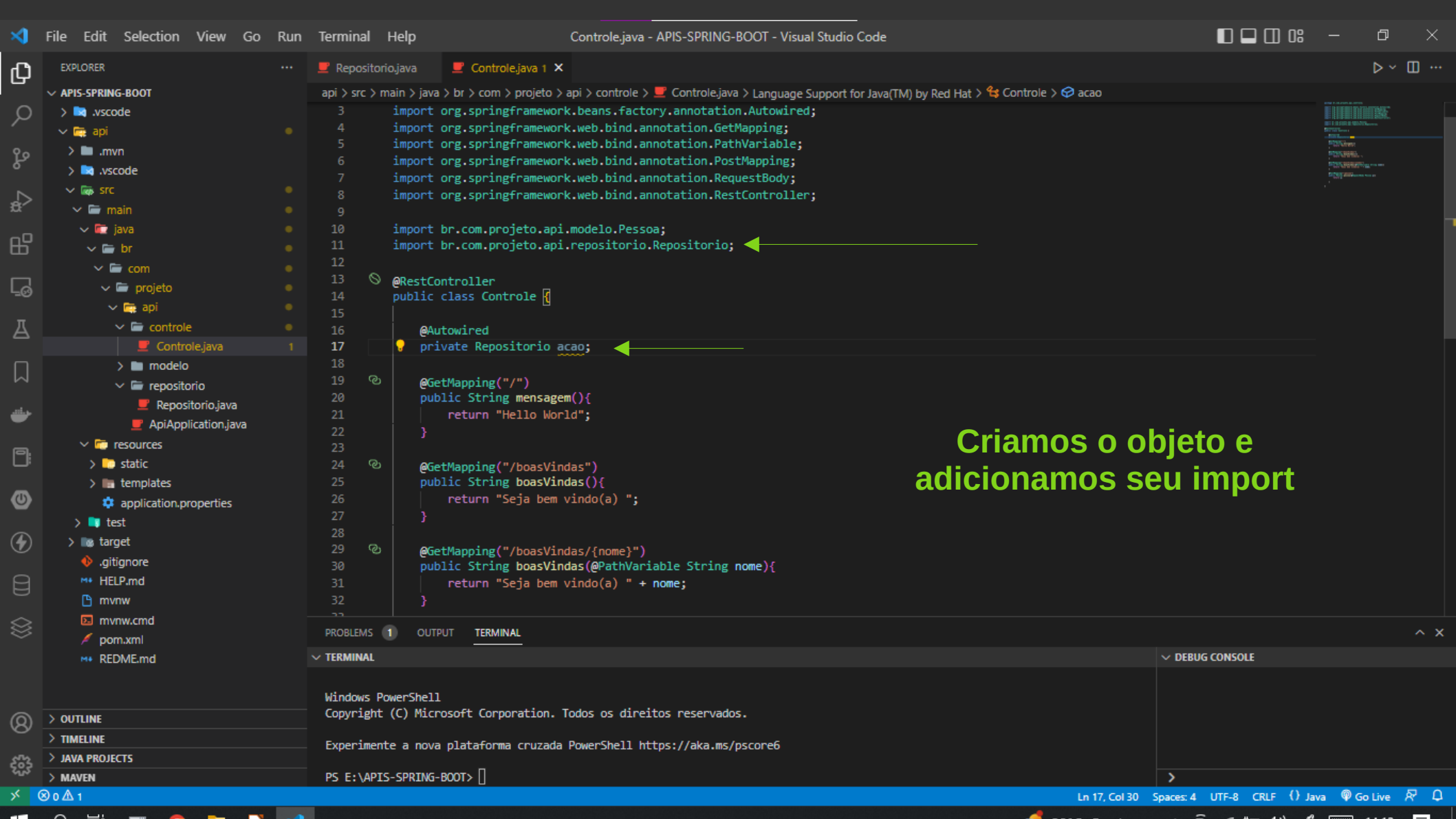
api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Java(TM) by Red Hat > Controle > mensagem()
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RestController;
import br.com.projeto.api.modelo.Pessoa;
@RestController
public class Controle {
@Autowired
private Reposito
@GetMapping("/")
public String me
return "Hell
}
@GetMapping("/bo
public String bo
return "Seja
}
@GetMapping("/bo
public String boasVindas(@PathVariable String nome){
return "Seja bem vindo(a) " + nome;
}
Repositories - org.springframework.data.repositor…
RepositoriesPopulatedEvent - org.springframework.…
Repositorio - br.com.projeto.api.repositorio
Repository - org.apache.catalina.startup.ClassLoa…
Repository - org.aspectj.apache.bcel
Repository - org.aspectj.apache.bcel.util
Repository - org.springframework.boot.actuate.aut…
Repository - org.springframework.data.repository
Repository - org.springframework.stereotype
RepositoryAwareMethodLookup - org.springframework…
RepositoryBeanDefinitionParser - org.springframew…
RepositoryBeanDefinitionRegistrarSupport - org.sp…
org.springframework.data.repository.sup
port.Repositories
Wrapper class to access repository instances obtained from a ListableBeanFactory.
Author:
Oliver Gierke
Thomas Darimont
Thomas Eizinger
Christoph Strobl
Alessandro Nistico
Johannes Englmeier
Estamos criando um objeto de forma privada
PROBLEMS 2
OUTPUT
TERMINAL
TERMINAL
CONSOLE


File Edit Selection View Go Run Terminal Help
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api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Java(TM) by Red Hat > Controle > acao
3 import org.springframework.beans.factory.annotation.Autowired;
4 import org.springframework.web.bind.annotation.GetMapping;
5 import org.springframework.web.bind.annotation.PathVariable;
6 import org.springframework.web.bind.annotation.PostMapping;
7 import org.springframework.web.bind.annotation.RequestBody;
8 import org.springframework.web.bind.annotation.RestController;
9
10 import br.com.projeto.api.modelo.Pessoa;
11 import br.com.projeto.api.repositorio.Repositorio;
12
13 @RestController
14 public class Controle {
15
16 @Autowired
17 private Repositorio acao;
18
19 @GetMapping("/")
20 public String mensagem(){
21 return "Hello World";
22 }
23
24 @GetMapping("/boasVindas")
25 public String boasVindas(){
26 return "Seja bem vindo(a) ";
27 }
28
29 @GetMapping("/boasVindas/{nome}")
30 public String boasVindas(@PathVariable String nome){
31 return "Seja bem vindo(a) " + nome;
32 }
Criamos o objeto e adicionamos seu import
PROBLEMS 1
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TERMINAL
Windows PowerShell
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Experimente a nova plataforma cruzada PowerShell https://aka.ms/pscore6
PS E:\APIS-SPRING-BOOT>
DEBUG CONSOLE
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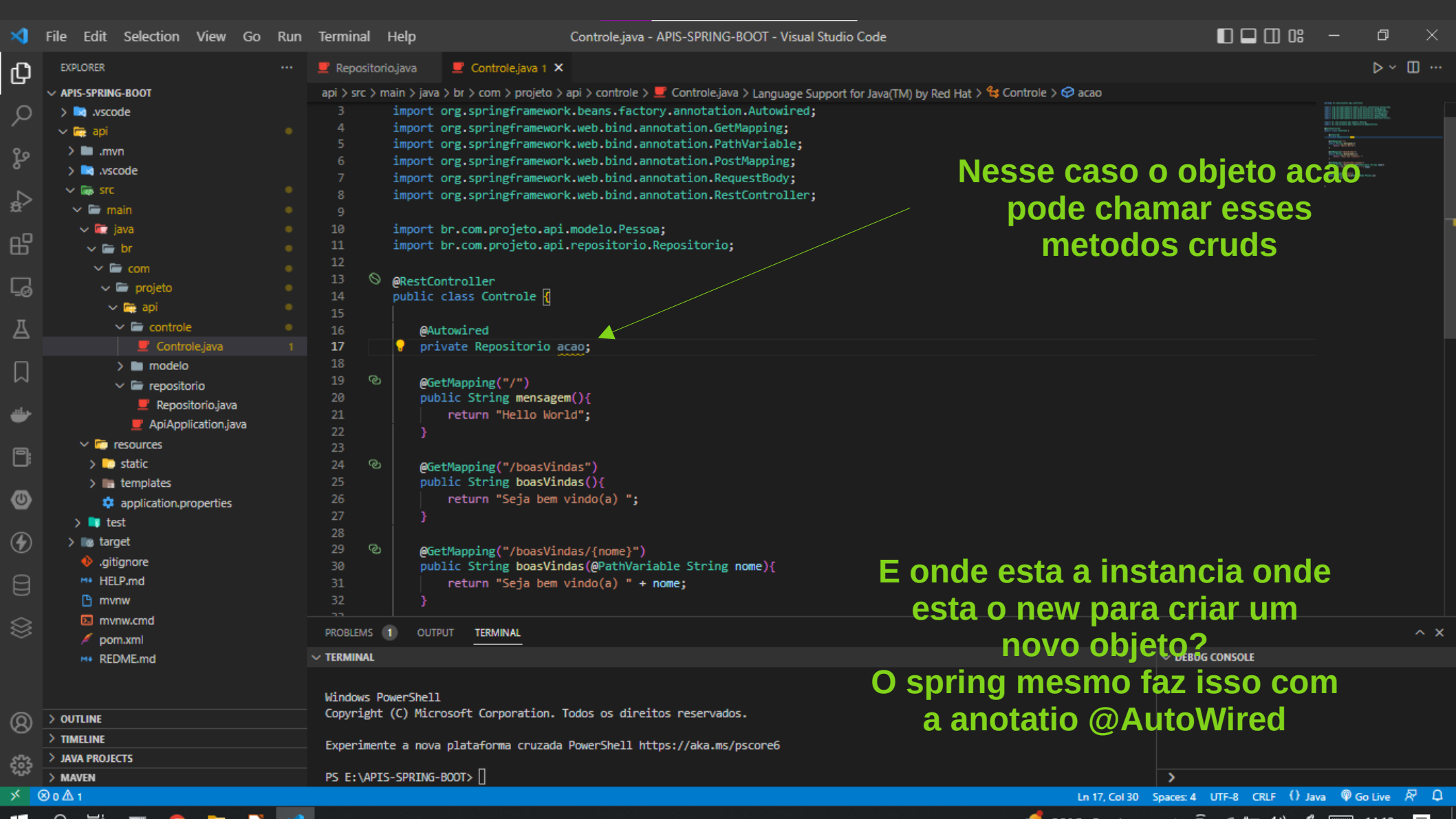
Ln 17, Col 30
Spaces: 4
UTF-8
CRLF
Java
Go Live

Qual o tipo do objeto criado?
É do tipo Repositorio
E porque tivemos que criar um obejto do tipo repositorio?
Porque ele contem as ações do nosso banco de dados
Quais são essas ações?
Selecionar cadastrar deletar excluir updat o chamado crud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3 import org.springframework.beans.factory.annotation.Autowired;
4 import org.springframework.web.bind.annotation.GetMapping;
5 import org.springframework.web.bind.annotation.PathVariable;
6 import org.springframework.web.bind.annotation.PostMapping;
7 import org.springframework.web.bind.annotation.RequestBody;
8 import org.springframework.web.bind.annotation.RestController;
9
10 import br.com.projeto.api.modelo.Pessoa;
11 import br.com.projeto.api.repositorio.Repositorio;
12
13 @RestController
14 public class Controle {
15
16 @Autowired
17 private Repositorio acao;
18
19 @GetMapping("/")
20 public String mensagem(){
21 return "Hello World";
22 }
23
24 @GetMapping("/boasVindas")
25 public String boasVindas(){
26 return "Seja bem vindo(a) ";
27 }
28
29 @GetMapping("/boasVindas/{nome}")
30 public String boasVindas(@PathVariable String nome){
31 return "Seja bem vindo(a) " + nome;
32 }
Nesse caso o objeto acao pode chamar esses metodos cruds
E onde esta a instancia onde esta o new para criar um novo objeto?
O spring mesmo faz isso com a anotatio @AutoWired
PROBLEMS 1
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TERMINAL
TERMINAL
DEBUG CONSOLE
Windows PowerShell
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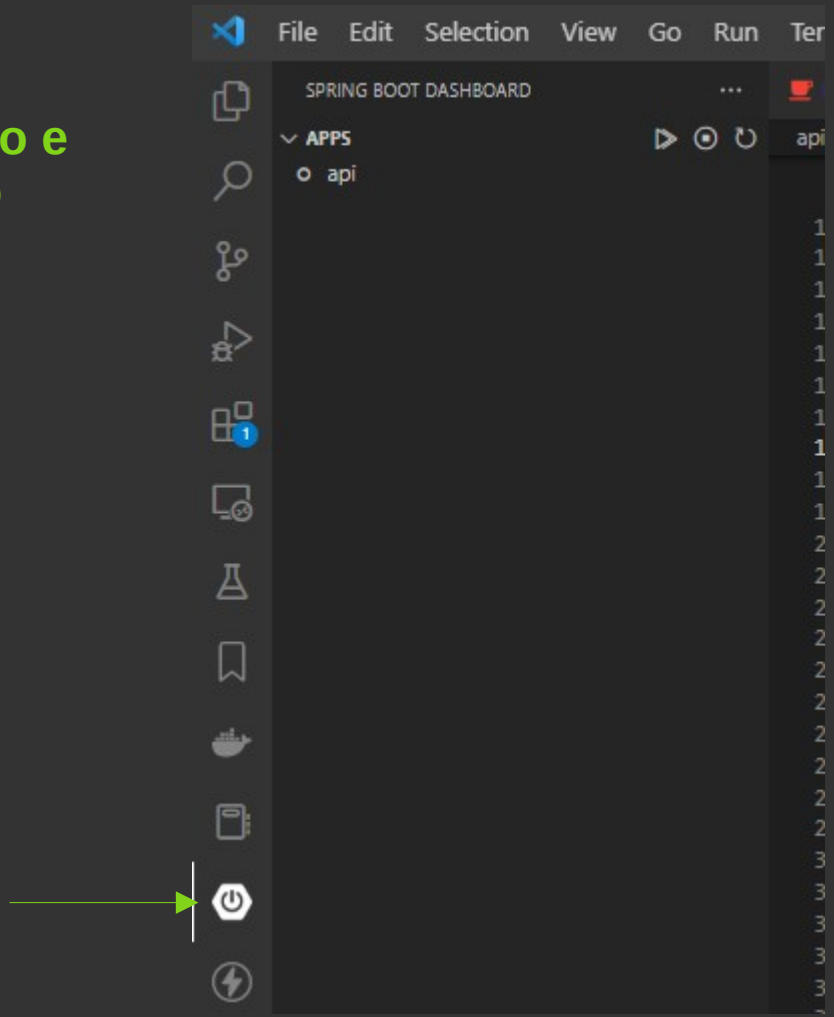
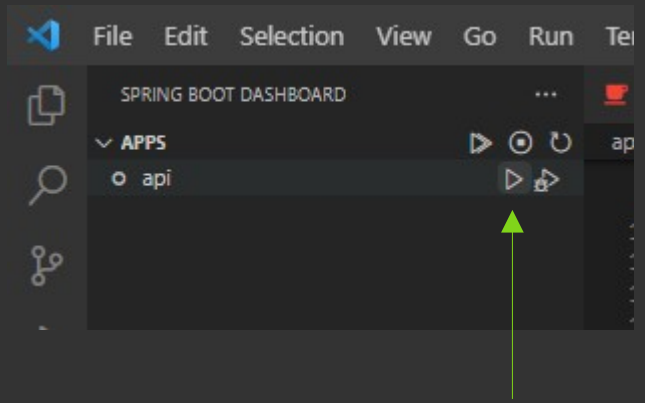
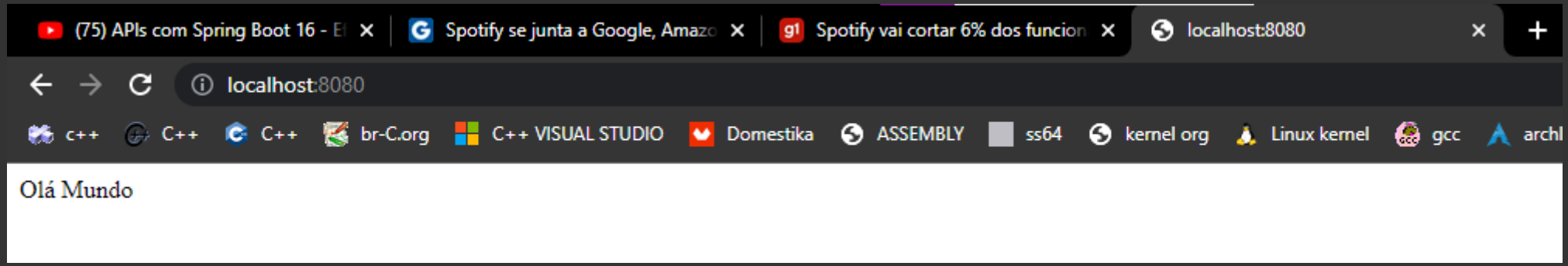
Experimente a nova plataforma cruzada PowerShell https://aka.ms/pscore6
PS E:\APIS-SPRING-BOOT>
OUTLINE
TIMELINE
JAVA PROJECTS
MAVEN
Ln 17, Col 30 Spaces: 4 UTF-8 CRLF Java Go Live

#16
Efetuando cadastros com save

Execute o projeto e depois abra o navegador






(75) APIs com Spring Boot 16 - E
Spotify se junta a Google, Amazo
Spotify vai cortar 6% dos funcion
localhost:8080
localhost:8080
c++
C++
C++
br-C.org
C++ VISUAL STUDIO
Domestika
ASSEMBLY
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kernel org
Linux kernel
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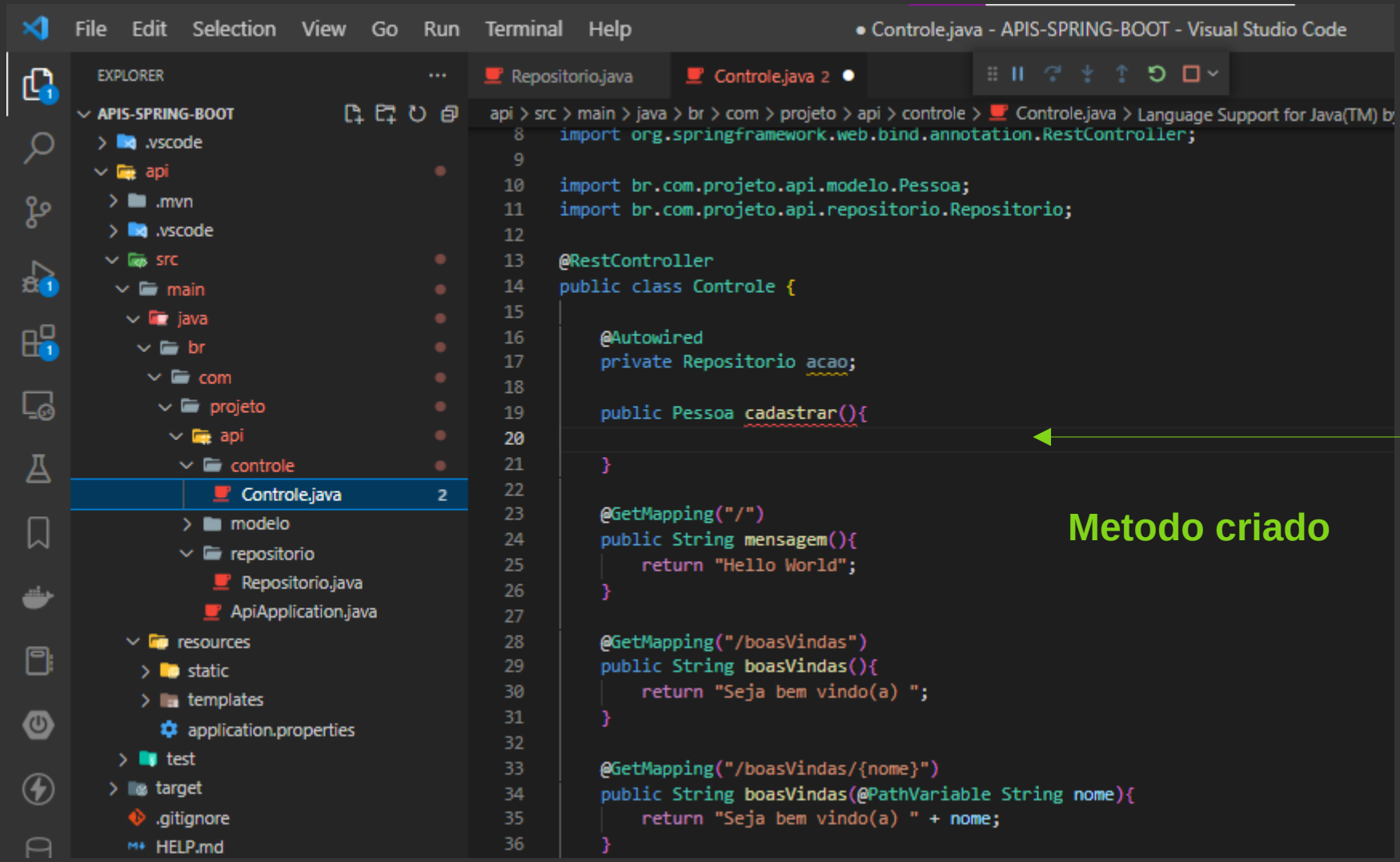
Olá Mundo

O erro aparece porque criamos um objeto e ainda não ultilizamos
Vamos criar um metodo que sera nossa rota de pessoa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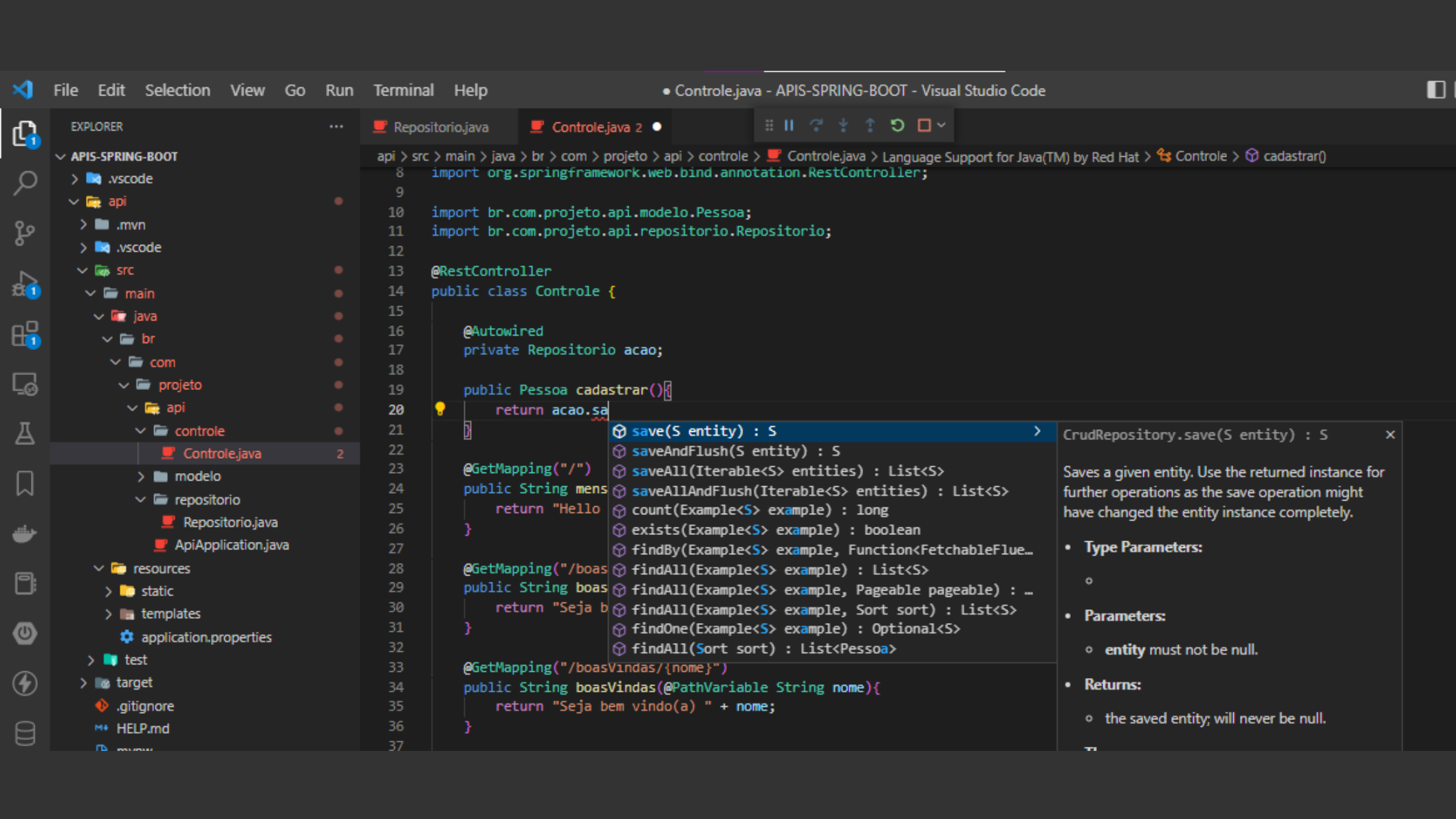
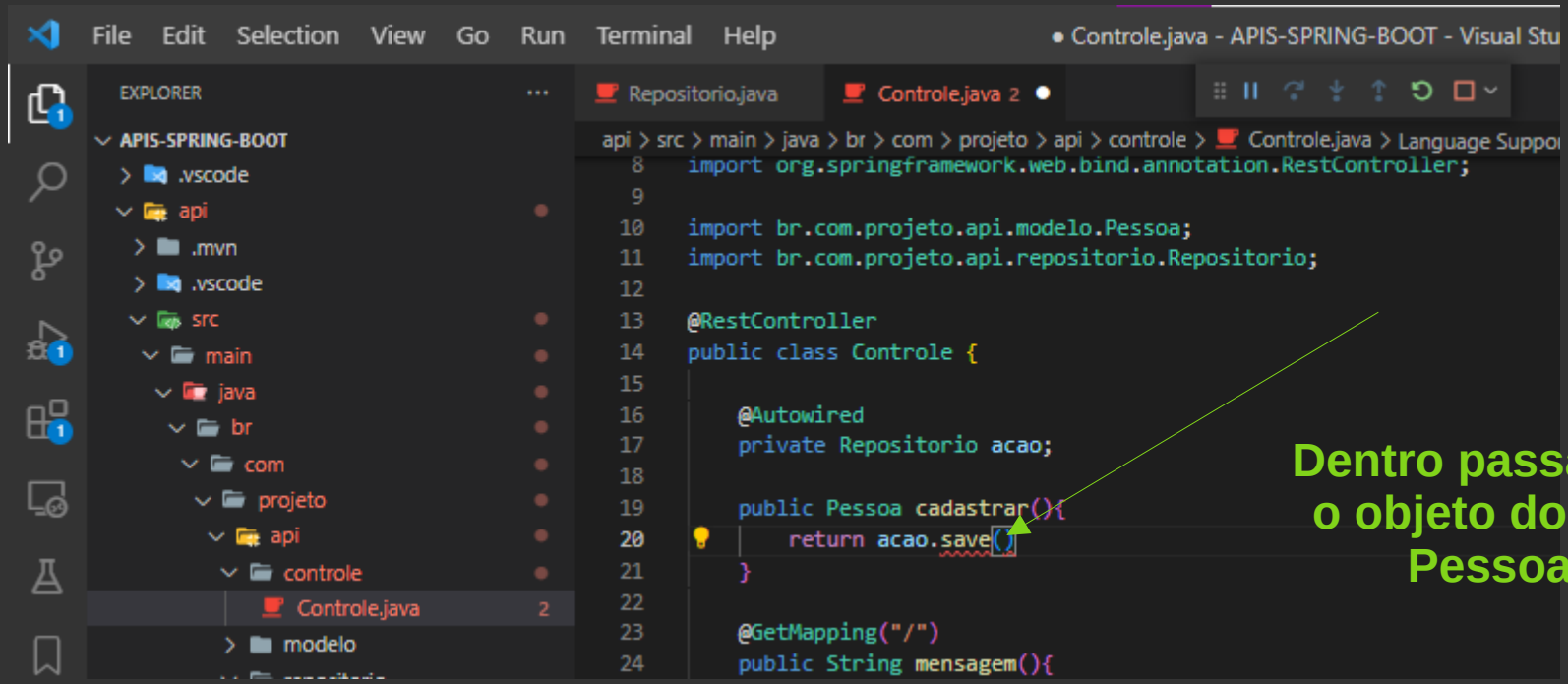
import org.springframework.web.bind.annotation.RestController;
import br.com.projeto.api.modelo.Pessoa;
import br.com.projeto.api.repositorio.Repositorio;
@RestController
public class Controle {
@Autowired
private Repositorio acao;
public Pessoa cadastrar(){
}
@GetMapping("/")
public String mensagem(){
return "Hello World";
}
@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;
}
Metodo criado

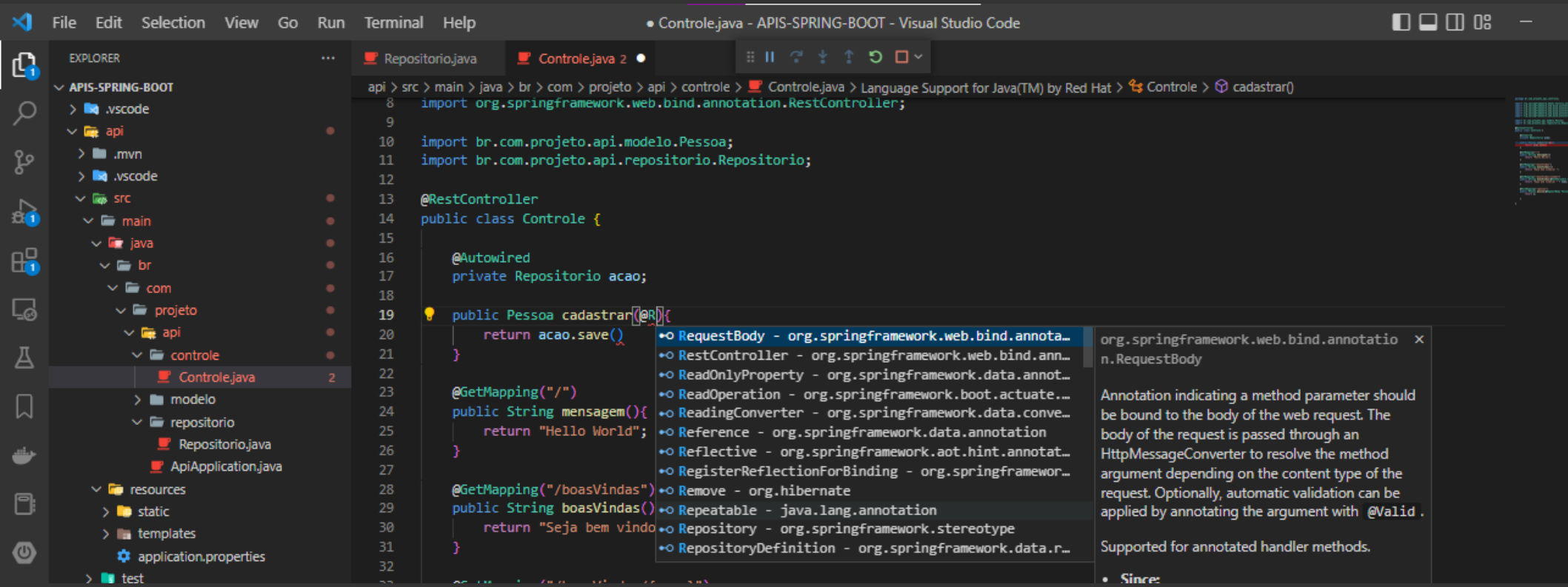
Vamos realizar um insert como temos que retornar uma pessoa
Usamos o objeto criado acao e logo depois dele damos um ponto para acessar as propriedades
E dentro das opções que aparecem escolhemos o save()

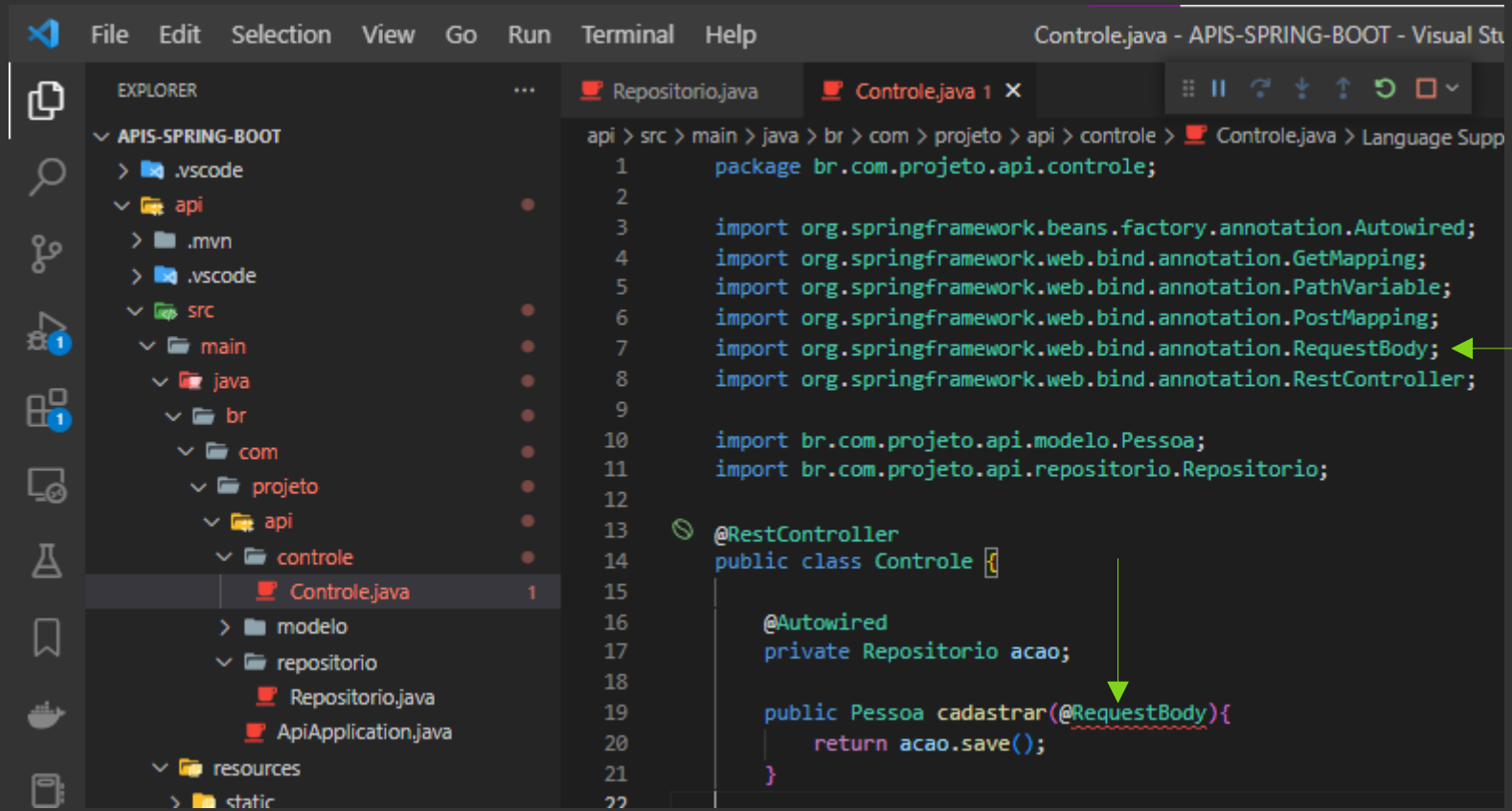

File Edit Selection View Go Run Terminal Help
• Controle.java - APIS-SPRING-BOOT - Visual Studio Code
EXPLORER
APIS-SPRING-BOOT
.vscode
api
.mvn
.vscode
src
main
java
br
com
projeto
api
controle
Controle.java 2
modelo
repositorio
Repositorio.java
ApiApplication.java
resources
static
templates
application.properties
test
target
.gitignore
HELP.md
Repositorio.java
Controle.java 2
api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Java(TM) by Red Hat > Controle > cadastrar()
import org.springframework.web.bind.annotation.RestController;
import br.com.projeto.api.modelo.Pessoa;
import br.com.projeto.api.repositorio.Repositorio;
@RestController
public class Controle {
@Autowired
private Repositorio acao;
public Pessoa cadastrar(){
return acao.sa
}
@GetMapping("/")
public String mens
return "Hello
}
@GetMapping("/boas
public String boas
return "Seja b
}
@GetMapping("/boasVindas/{nome}")
public String boasVindas(@PathVariable String nome){
return "Seja bem vindo(a) " + nome;
}
save(S entity) : S
saveAndFlush(S entity) : S
saveAll(Iterable<S> entities) : List<S>
saveAllAndFlush(Iterable<S> entities) : List<S>
count(Example<S> example) : long
exists(Example<S> example) : boolean
findBy(Example<S> example, Function<FetchableFlue…
findAll(Example<S> example) : List<S>
findAll(Example<S> example, Pageable pageable) : …
findAll(Example<S> example, Sort sort) : List<S>
findOne(Example<S> example) : Optional<S>
findAll(Sort sort) : List<Pessoa>
CrudRepository.save(S entity) : S
Saves a given entity. Use the returned instance for further operations as the save operation might have changed the entity instance completely.
Type Parameters:
Parameters:
entity must not be null.
Returns:
the saved entity; will never be null.


File Edit Selection View Go Run Terminal Help
• Controle.java - APIS-SPRING-BOOT - Visual Stu
EXPLORER
APIS-SPRING-BOOT
.vscode
api
.mvn
.vscode
src
main
java
br
com
projeto
api
controle
Controle.java 2
modelo
Repositorio.java
Controle.java 2
api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Suppo
8 import org.springframework.web.bind.annotation.RestController;
9
10 import br.com.projeto.api.modelo.Pessoa;
11 import br.com.projeto.api.repositorio.Repositorio;
12
13 @RestController
14 public class Controle {
15
16 @Autowired
17 private Repositorio acao;
18
19 public Pessoa cadastrar(){
20 return acao.save()
21 }
22
23 @GetMapping("/")
24 public String mensagem(){
Dentro passamos o objeto do tipo Pessoa

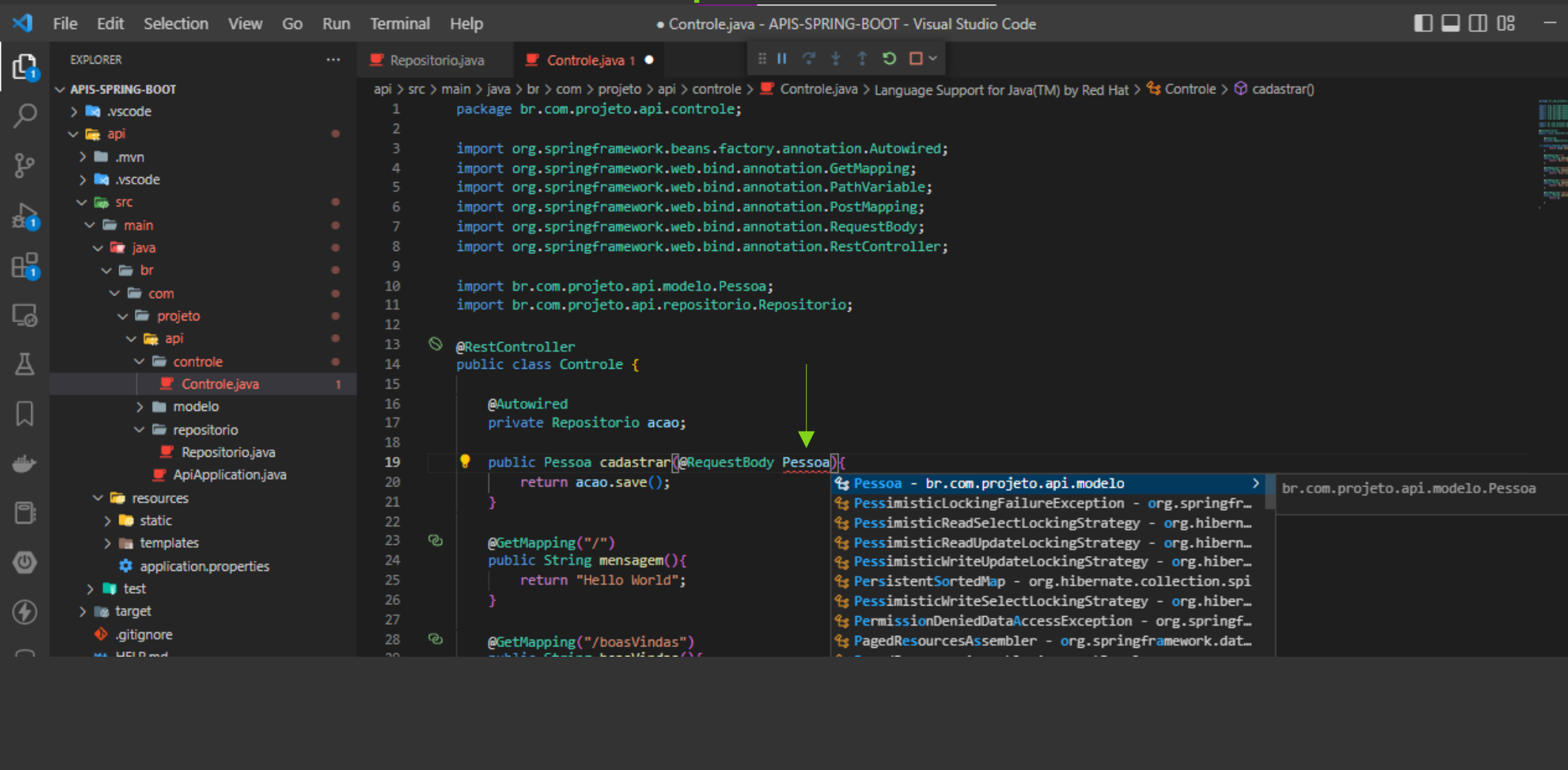
Como eu pego essas informações do tipo Pessoa?

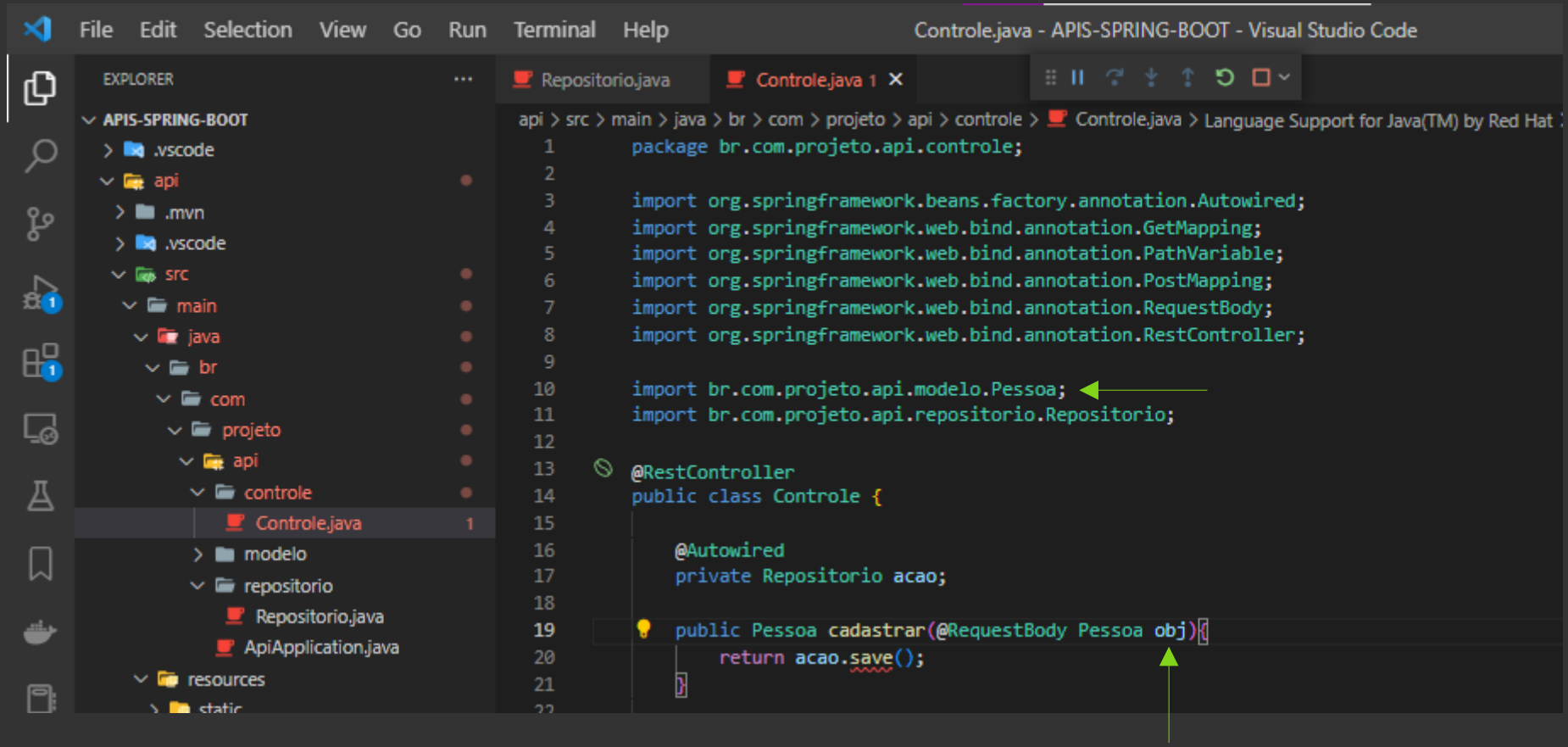
Adiconamos a anotation @RequestBody e seu import



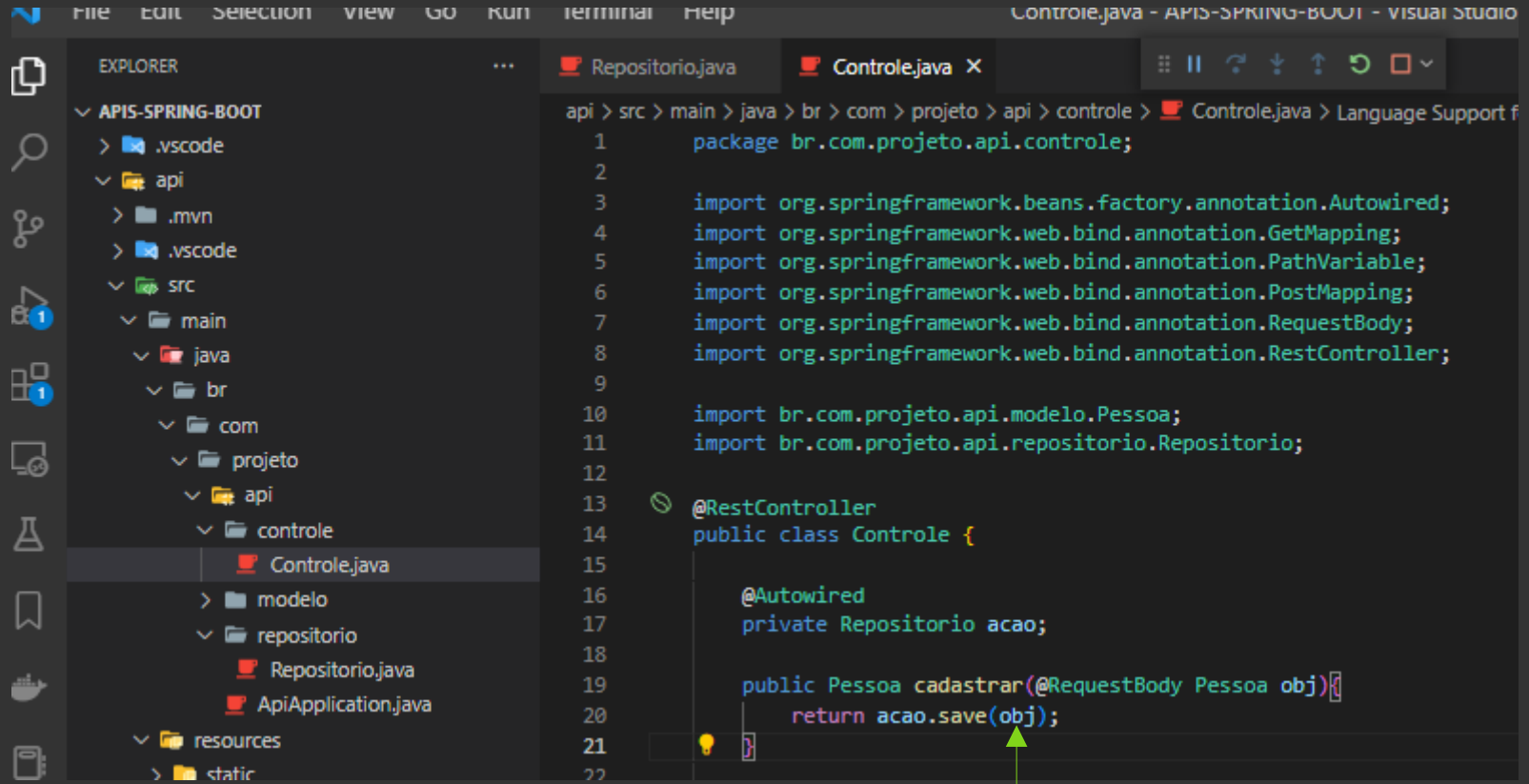

File Edit Selection View Go Run Terminal Help
Controle.java - APIS-SPRING-BOOT - Visual Stu
EXPLORER
APIS-SPRING-BOOT
.vscode
api
.mvn
.vscode
src
main
java
br
com
projeto
api
controle
Controle.java 1
modelo
repositorio
Repositorio.java
ApiApplication.java
resources
static
Repositorio.java
Controle.java 1
api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Supp
1 package br.com.projeto.api.controle;
2
3 import org.springframework.beans.factory.annotation.Autowired;
4 import org.springframework.web.bind.annotation.GetMapping;
5 import org.springframework.web.bind.annotation.PathVariable;
6 import org.springframework.web.bind.annotation.PostMapping;
7 import org.springframework.web.bind.annotation.RequestBody;
8 import org.springframework.web.bind.annotation.RestController;
9
10 import br.com.projeto.api.modelo.Pessoa;
11 import br.com.projeto.api.repositorio.Repositorio;
12
13 @RestController
14 public class Controle {
15
16 @Autowired
17 private Repositorio acao;
18
19 public Pessoa cadastrar(@RequestBody){
20 return acao.save();
21 }
22

Especificamos que estamos esperando uma requisição via body do tipo Pessoa

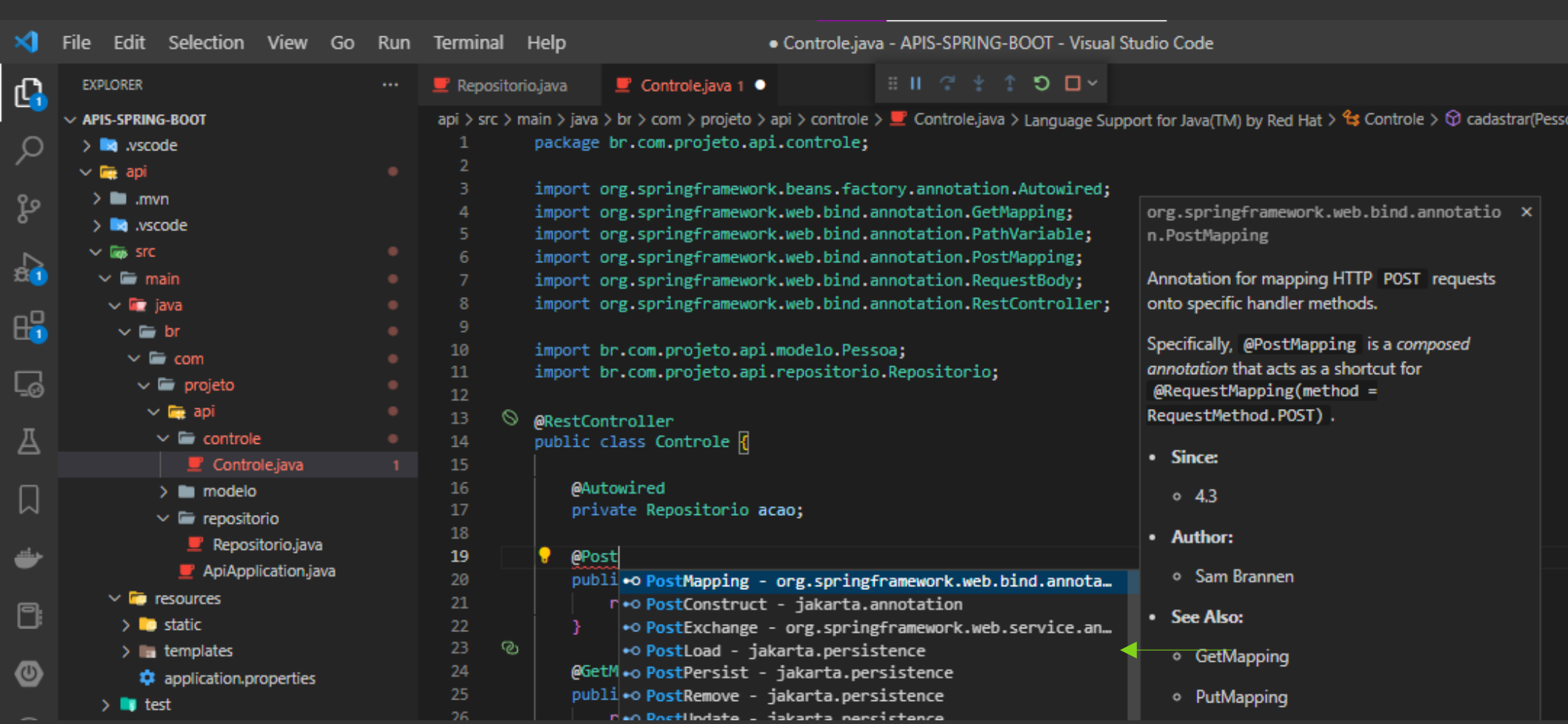




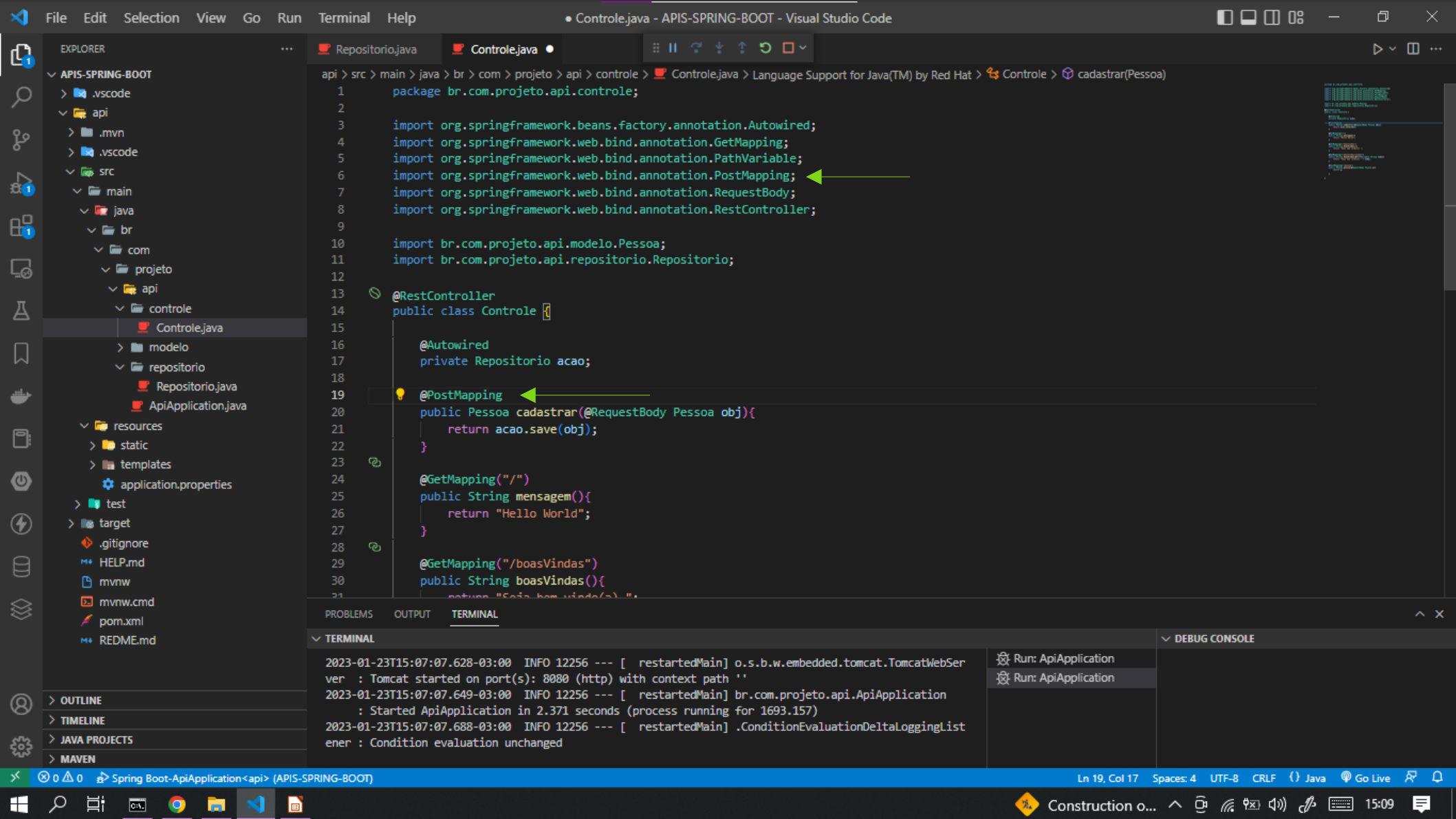
E damos o nome de obj

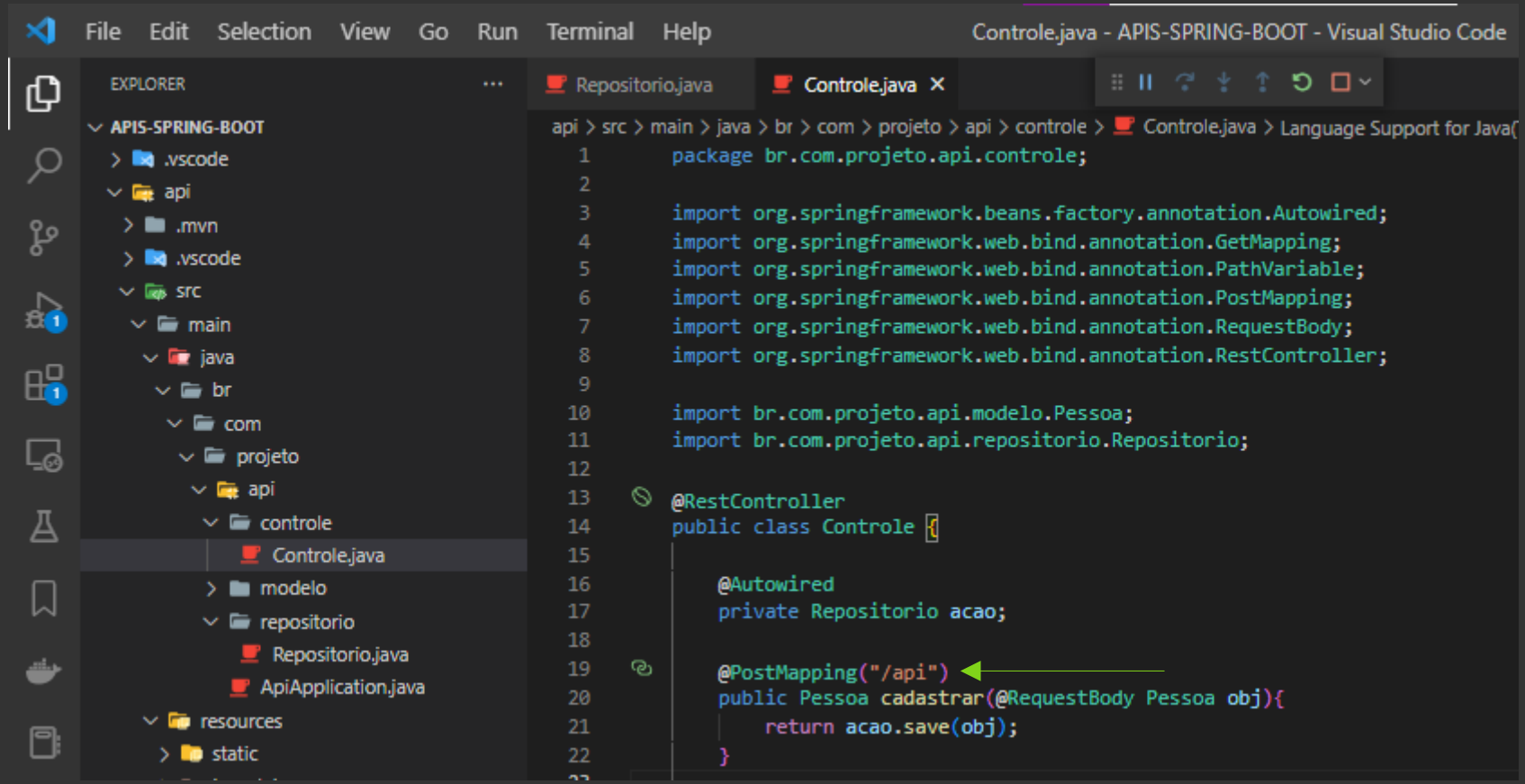


O save efetua o cadastramento do objeto do tipo Pessoa



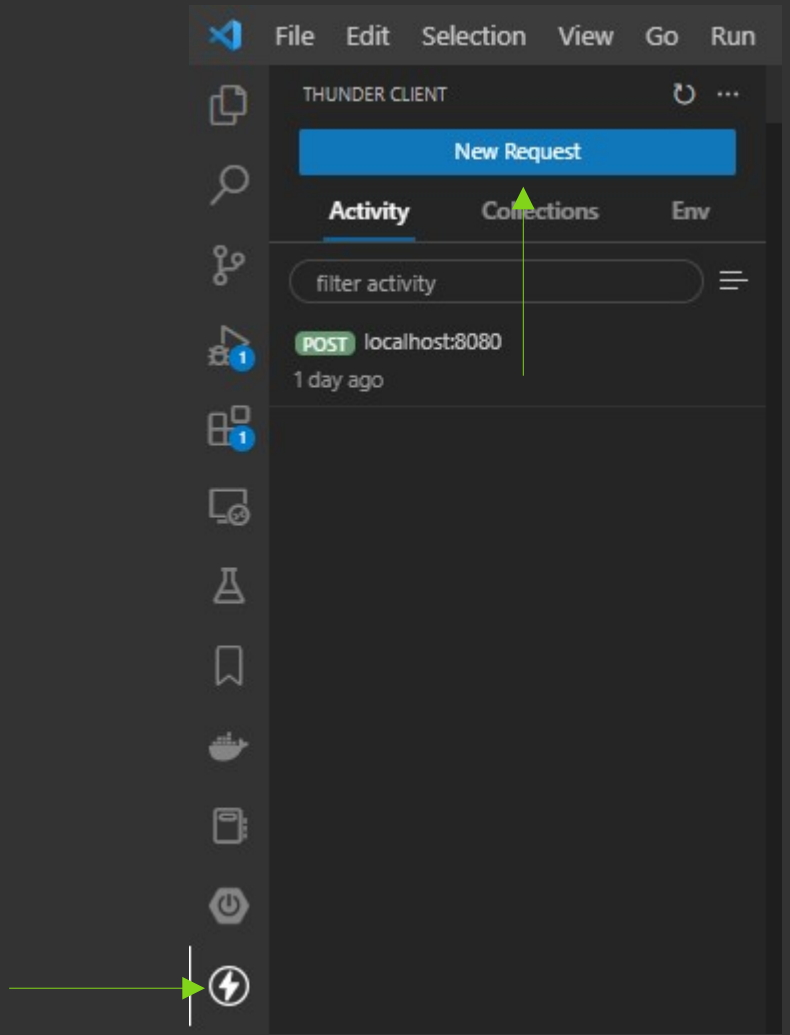
Adidionamos a anotation @PostMapping e seu import para poder usar o @RequestBody


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
modelo
repositorio
Repositorio.java
ApiApplication.java
resources
static
templates
application.properties
test
target
.gitignore
HELP.md
mvnw
mvnw.cmd
pom.xml
REDME.md
Repositorio.java
Controle.java
api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Java(TM) by Red Hat > Controle > cadastrar(Pessoa)
1 package br.com.projeto.api.controle;
2
3 import org.springframework.beans.factory.annotation.Autowired;
4 import org.springframework.web.bind.annotation.GetMapping;
5 import org.springframework.web.bind.annotation.PathVariable;
6 import org.springframework.web.bind.annotation.PostMapping;
7 import org.springframework.web.bind.annotation.RequestBody;
8 import org.springframework.web.bind.annotation.RestController;
9
10 import br.com.projeto.api.modelo.Pessoa;
11 import br.com.projeto.api.repositorio.Repositorio;
12
13 @RestController
14 public class Controle {
15
16 @Autowired
17 private Repositorio acao;
18
19 @PostMapping
20 public Pessoa cadastrar(@RequestBody Pessoa obj){
21 return acao.save(obj);
22 }
23
24 @GetMapping("/")
25 public String mensagem(){
26 return "Hello World";
27 }
28
29 @GetMapping("/boasVindas")
30 public String boasVindas(){
PROBLEMS OUTPUT TERMINAL
TERMINAL
2023-01-23T15:07:07.628-03:00 INFO 12256 --- [restartedMain] o.s.b.w.embedded.tomcat.TomcatWebSer
ver : Tomcat started on port(s): 8080 (http) with context path ''
2023-01-23T15:07:07.649-03:00 INFO 12256 --- [restartedMain] br.com.projeto.api.ApiApplication
: Started ApiApplication in 2.371 seconds (process running for 1693.157)
2023-01-23T15:07:07.688-03:00 INFO 12256 --- [restartedMain] .ConditionEvaluationDeltaLoggingList
ener : Condition evaluation unchanged
Run: ApiApplication
Run: ApiApplication
DEBUG CONSOLE
OUTLINE
TIMELINE
JAVA PROJECTS
MAVEN
Spring Boot-ApiApplication<api> (APIS-SPRING-BOOT)
Ln 19, Col 17 Spaces: 4 UTF-8 CRLF Java Go Live
Construction o...
15:09



Por fim colocamos a rota (“/api”)

Salve abra o thunder client e faça uma nova requisição


File
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Selection
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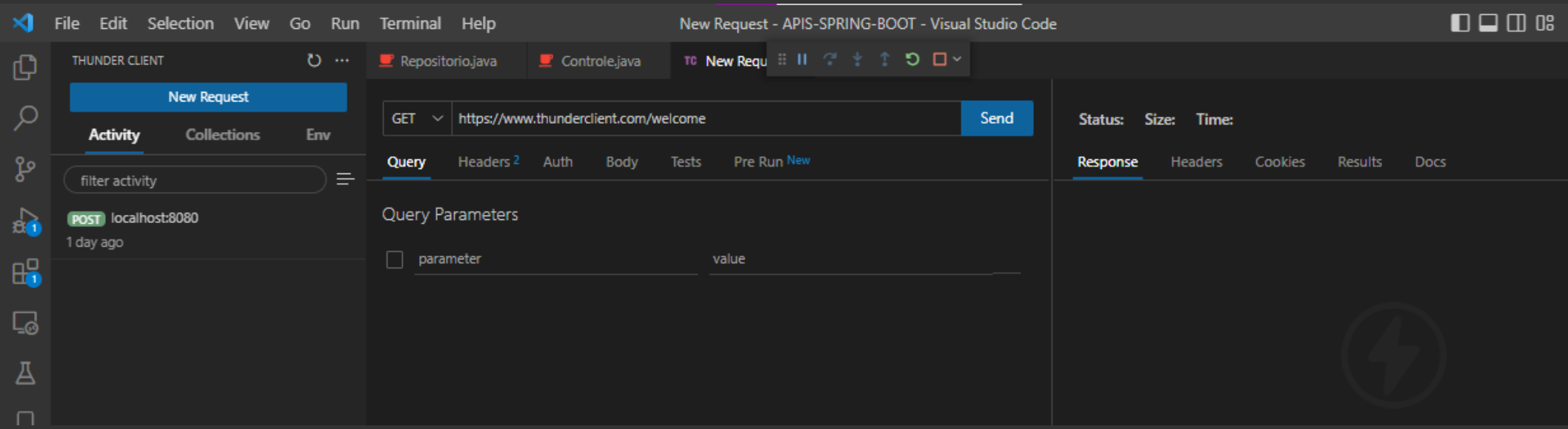
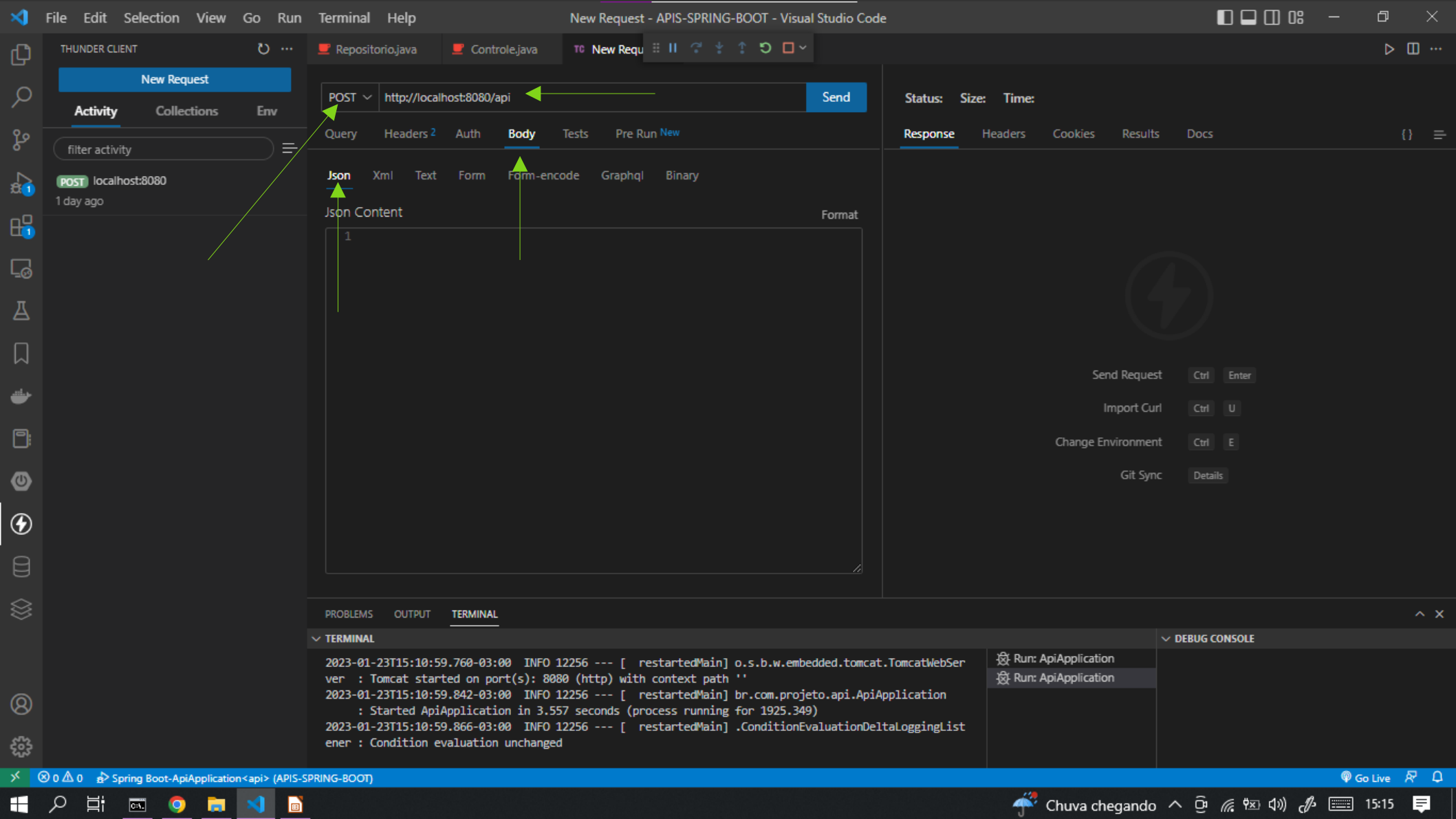
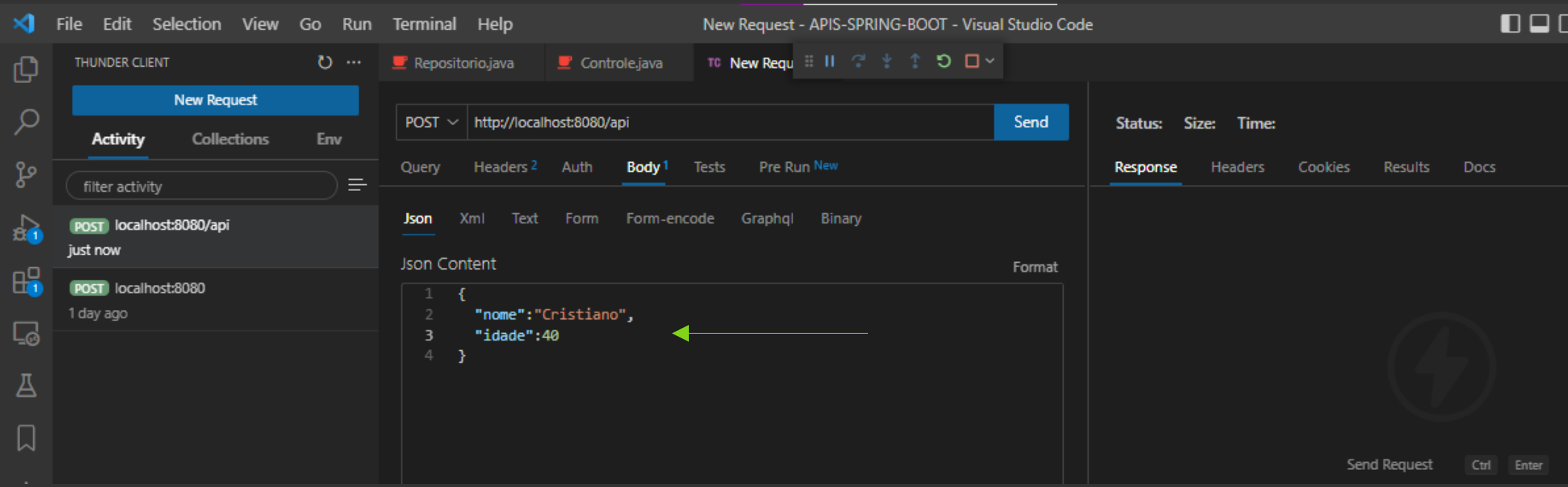
Go
Run
THUNDER CLIENT
New Request
Activity
Collections
Env
filter activity
POST
localhost:8080
1 day ago

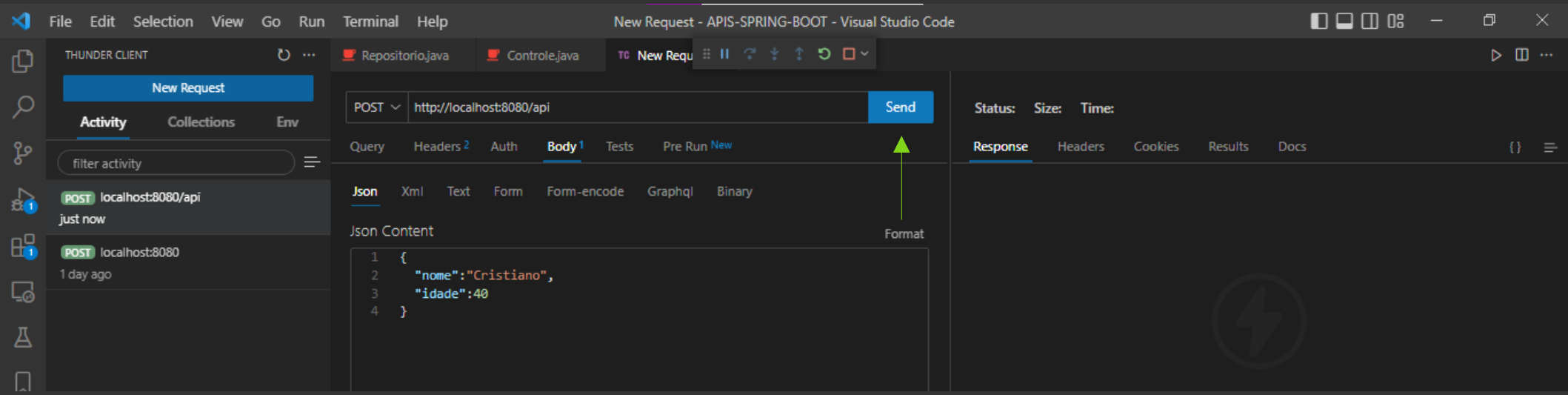

File Edit Selection View Go Run Terminal Help
New Request - APIS-SPRING-BOOT - Visual Studio Code
THUNDER CLIENT
New Request
Activity
Collections
Env
filter activity
POST localhost:8080
1 day ago
Repositorio.java
Controle.java
New Requ
GET
https://www.thunderclient.com/welcome
Send
Query
Headers 2
Auth
Body
Tests
Pre Run New
Query Parameters
parameter
value
Status:
Size:
Time:
Response
Headers
Cookies
Results
Docs

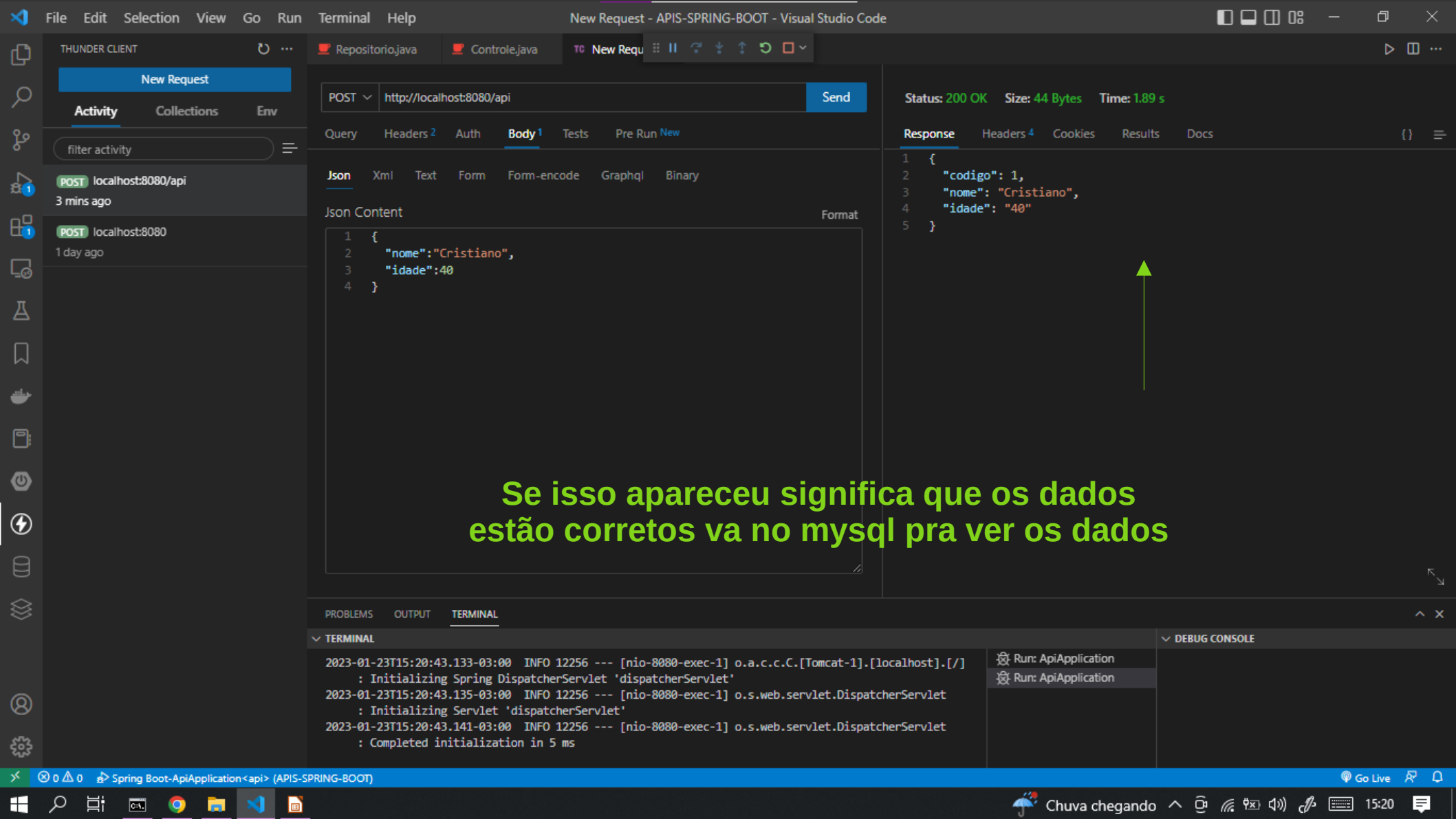

File Edit Selection View Go Run Terminal Help
New Request - APIS-SPRING-BOOT - Visual Studio Code
THUNDER CLIENT
New Request
Activity
Collections
Env
filter activity
POST localhost:8080
1 day ago
Repositorio.java
Controle.java
New Requ
POST
http://localhost:8080/api
Send
Query
Headers 2
Auth
Body
Tests
Pre Run New
Json
Xml
Text
Form
Form-encode
Graphql
Binary
Json Content
Format
1
Status:
Size:
Time:
Response
Headers
Cookies
Results
Docs
Send Request Ctrl Enter
Import Curl Ctrl U
Change Environment Ctrl E
Git Sync Details
PROBLEMS
OUTPUT
TERMINAL
TERMINAL
2023-01-23T15:10:59.760-03:00 INFO 12256 --- [restartedMain] o.s.b.w.embedded.tomcat.TomcatWebSer
ver : Tomcat started on port(s): 8080 (http) with context path ''
2023-01-23T15:10:59.842-03:00 INFO 12256 --- [restartedMain] br.com.projeto.api.ApiApplication
: Started ApiApplication in 3.557 seconds (process running for 1925.349)
2023-01-23T15:10:59.866-03:00 INFO 12256 --- [restartedMain] .ConditionEvaluationDeltaLoggingList
ener : Condition evaluation unchanged
Run: ApiApplication
Run: ApiApplication
DEBUG CONSOLE
Spring Boot-ApiApplication<api> (APIS-SPRING-BOOT)
Go Live
Chuva chegando
15:15

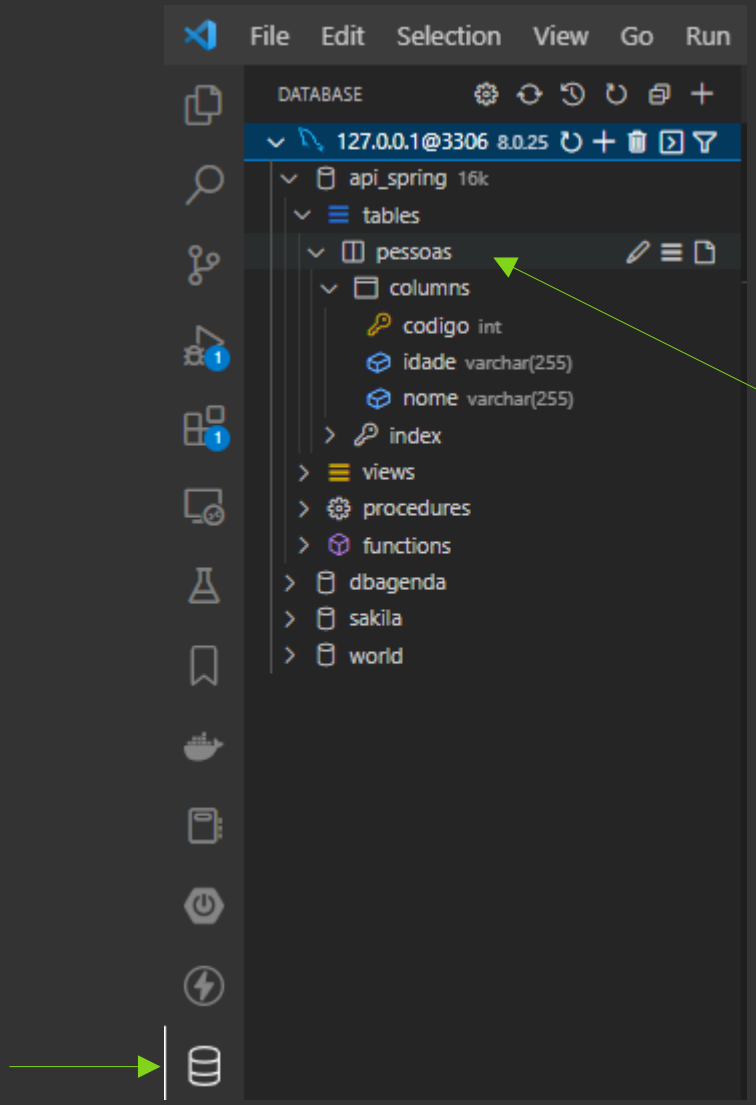


crie um objeto json

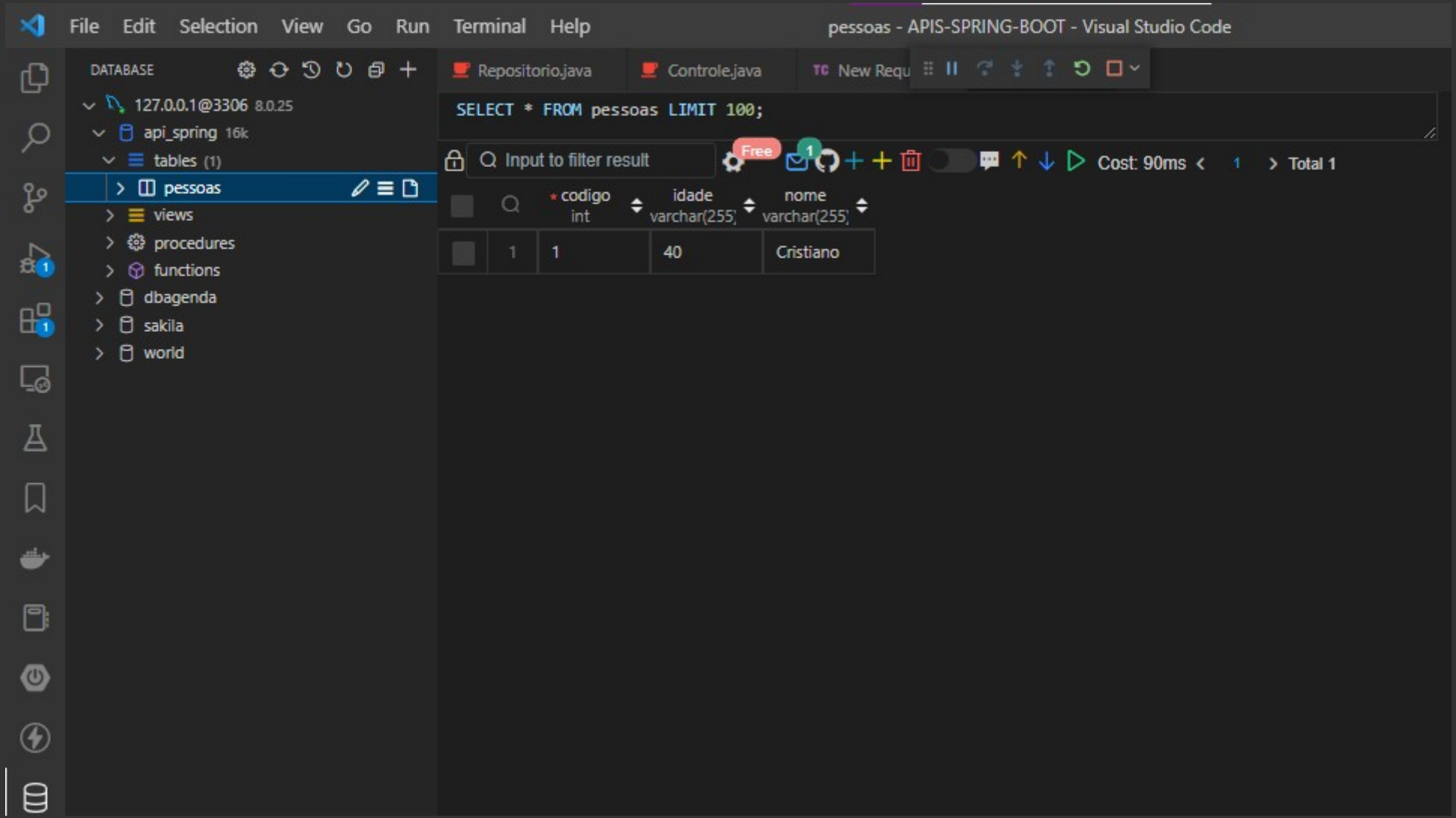
Não estamos fazendo validação de dados
O que pe validação de dados?
É quando uma pessoa digita algo incorreto e fazemos uma verificação pra saber se os dados estão ok


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
POST localhost:8080/api
just now
POST localhost:8080
1 day ago
Repositorio.java
Controle.java
New Requ
POST
http://localhost:8080/api
Send
Status:
Size:
Time:
Query
Headers 2
Auth
Body 1
Tests
Pre Run New
Response
Headers
Cookies
Results
Docs
Json
Xml
Text
Form
Form-encode
Graphql
Binary
Json Content
Format
1 {
2 "nome":"Cristiano",
3 "idade":40
4 }

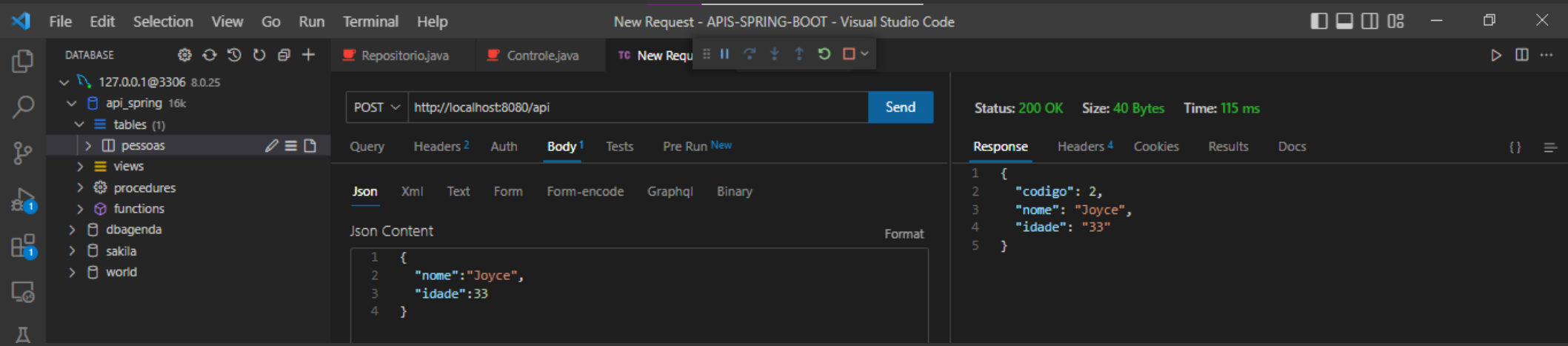

File Edit Selection View Go Run Terminal Help
New Request - APIS-SPRING-BOOT - Visual Studio Code
THUNDER CLIENT
New Request
Activity Collections Env
filter activity
POST localhost:8080/api
3 mins ago
POST localhost:8080
1 day ago
Repositorio.java
Controle.java
New Requ
POST http://localhost:8080/api Send
Query Headers 2 Auth Body 1 Tests Pre Run New
Json Xml Text Form Form-encode Graphql Binary
Json Content Format
{
"nome":"Cristiano",
"idade":40
}
Status: 200 OK Size: 44 Bytes Time: 1.89 s
Response Headers 4 Cookies Results Docs
{
"codigo": 1,
"nome": "Cristiano",
"idade": "40"
}
Se isso apareceu significa que os dados
estão corretos va no mysql pra ver os dados
PROBLEMS OUTPUT TERMINAL
TERMINAL
2023-01-23T15:20:43.133-03:00 INFO 12256 --- [nio-8080-exec-1] o.a.c.c.C.[Tomcat-1].[localhost].[/]
: Initializing Spring DispatcherServlet 'dispatcherServlet'
2023-01-23T15:20:43.135-03:00 INFO 12256 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet
: Initializing Servlet 'dispatcherServlet'
2023-01-23T15:20:43.141-03:00 INFO 12256 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet
: Completed initialization in 5 ms
Run: ApiApplication
Run: ApiApplication
DEBUG CONSOLE
Spring Boot-ApiApplication<api> (APIS-SPRING-BOOT)
Go Live
Chuva chegando
15:20

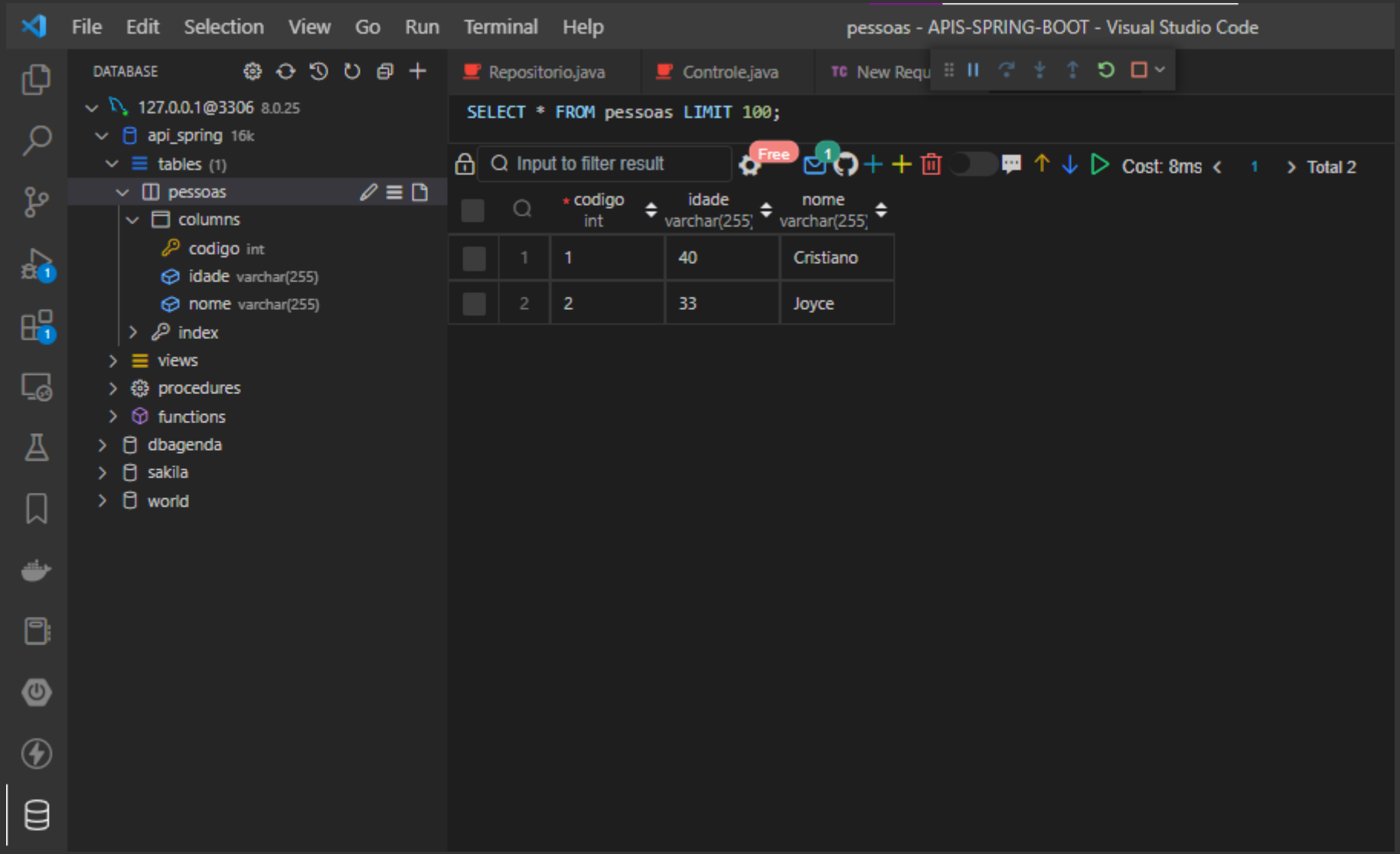


Click duplo em pessoas


File Edit Selection View Go Run Terminal Help
pessoas - APIS-SPRING-BOOT - Visual Studio Code
DATABASE
127.0.0.1@3306 8.0.25
api_spring 16k
tables (1)
pessoas
views
procedures
functions
dbagenda
sakila
world
Repositorio.java
Controle.java
New Requ
SELECT * FROM pessoas LIMIT 100;
Input to filter result
Free
Cost: 90ms
Total 1
codigo int
idade varchar(255)
nome varchar(255)
1 1 40 Cristiano

Fazendo mais um

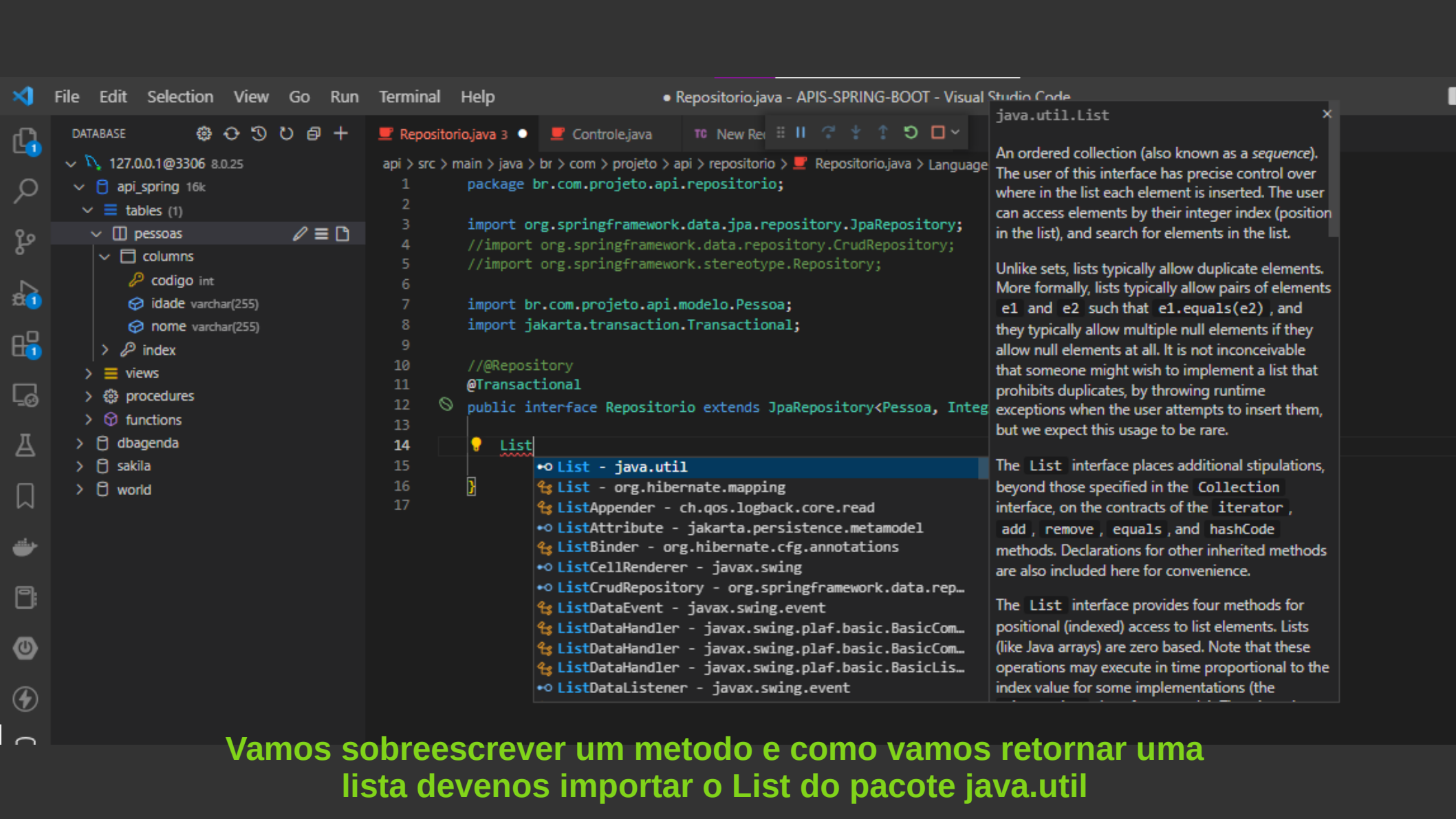

File Edit Selection View Go Run Terminal Help
New Request - APIS-SPRING-BOOT - Visual Studio Code
DATABASE
127.0.0.1@3306 8.0.25
api_spring 16k
tables (1)
pessoas
views
procedures
functions
dbagenda
sakila
world
Repositorio.java
Controle.java
New Requ
POST
http://localhost:8080/api
Send
Query
Headers 2
Auth
Body 1
Tests
Pre Run New
Json
Xml
Text
Form
Form-encode
Graphql
Binary
Json Content
Format
{
"nome":"Joyce",
"idade":33
}
Status: 200 OK
Size: 40 Bytes
Time: 115 ms
Response
Headers 4
Cookies
Results
Docs
{
"codigo": 2,
"nome": "Joyce",
"idade": "33"
}


File Edit Selection View Go Run Terminal Help
pessoas - APIS-SPRING-BOOT - Visual Studio Code
DATABASE
127.0.0.1@3306 8.0.25
api_spring 16k
tables (1)
pessoas
columns
codigo int
idade varchar(255)
nome varchar(255)
index
views
procedures
functions
dbagenda
sakila
world
Repositorio.java
Controle.java
SELECT * FROM pessoas LIMIT 100;
Input to filter result
Free
Cost: 8ms
Total 2
codigo int
idade varchar(255)
nome varchar(255)
1 1 40 Cristiano
2 2 33 Joyce

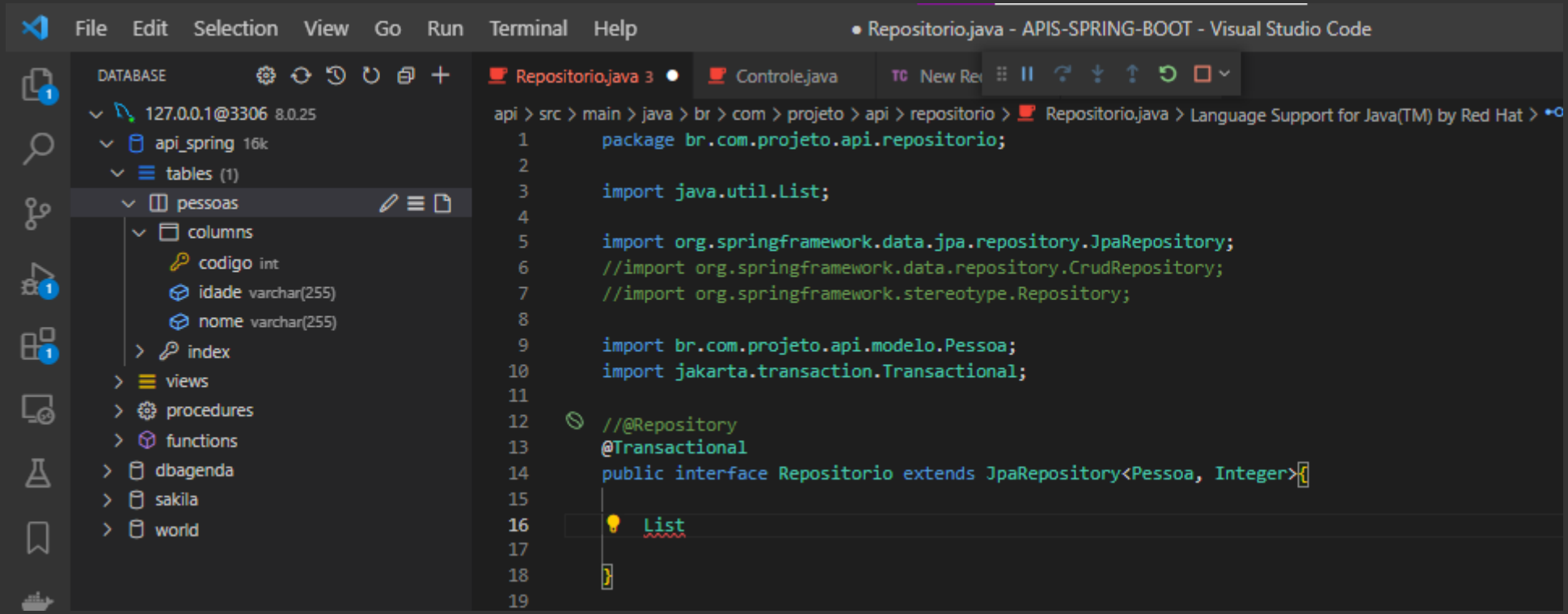
#17
Listando os dados com o comando findAll()

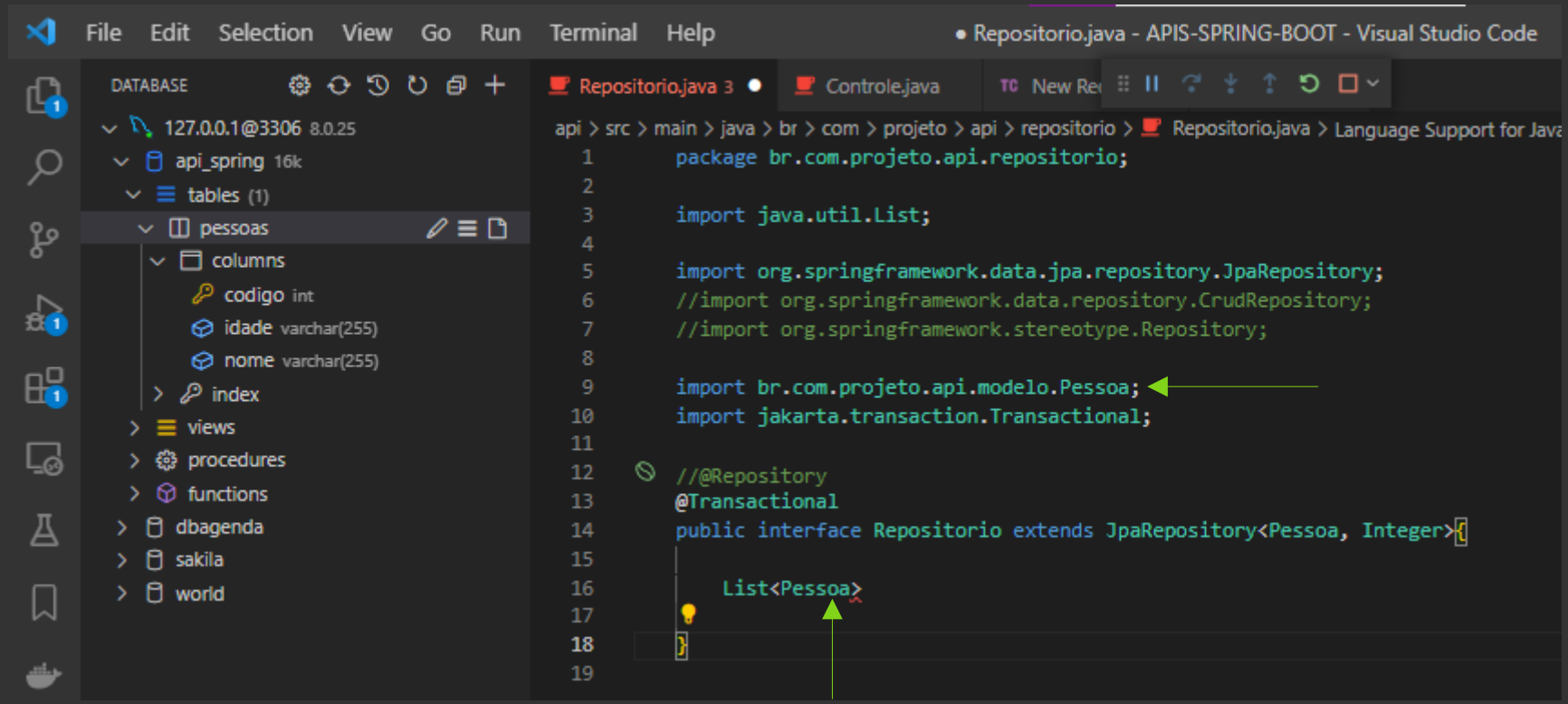
Antes de trabalhar com o controle temos que especificar pro nosso crudrepositorio que tipo de dados ele deve retornar

Oq ue faz o comando findAll()?
Lista todos os dados de uma tabela

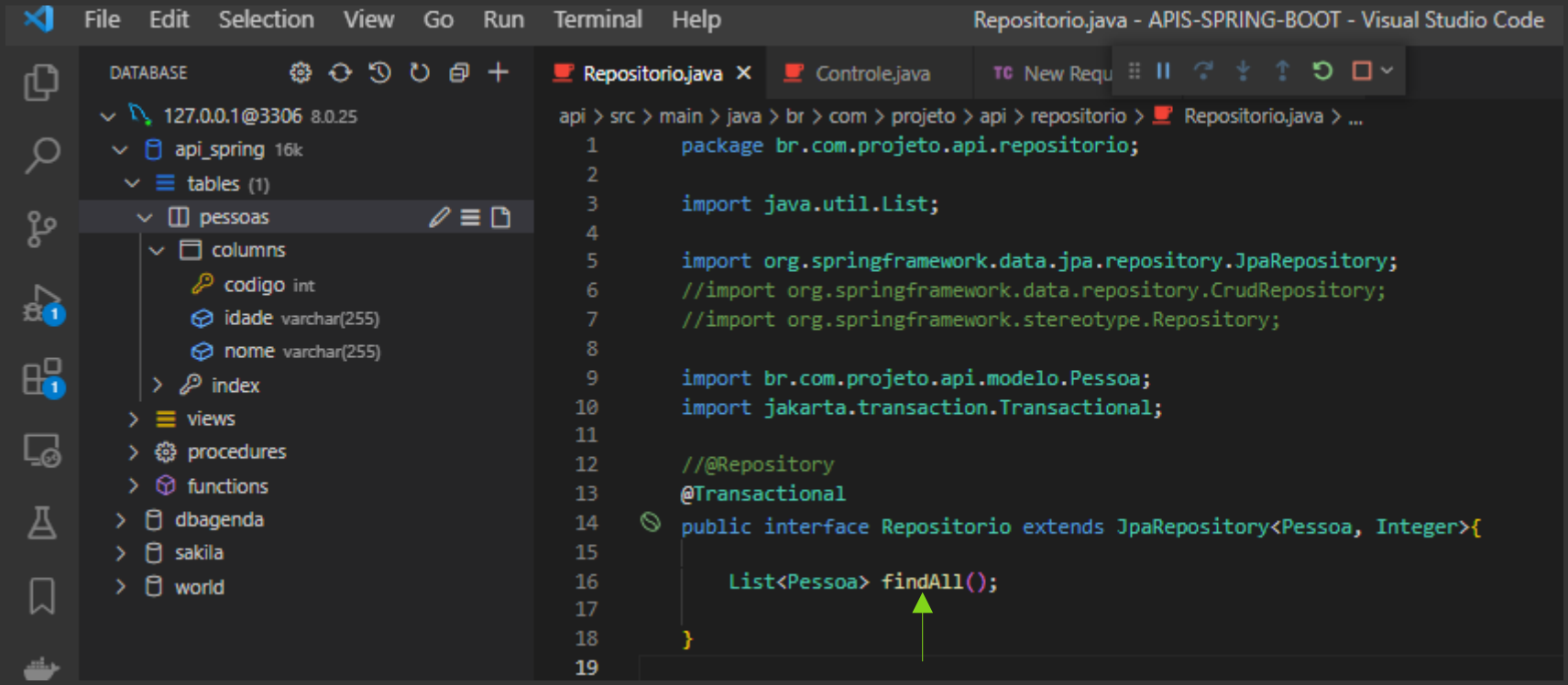


Vamos sobreescrever um metodo e como vamos retornar uma lista devenos importar o List do pacote java.util


File Edit Selection View Go Run Terminal Help
• Repositorio.java - APIS-SPRING-BOOT - Visual Studio Code
DATABASE
127.0.0.1@3306 8.0.25
api_spring 16k
tables (1)
pessoas
columns
codigo int
idade varchar(255)
nome varchar(255)
index
views
procedures
functions
dbagenda
sakila
world
Repositorio.java 3
Controle.java
api > src > main > java > br > com > projeto > api > repositorio > Repositorio.java > Language Support for Java(TM) by Red Hat
1 package br.com.projeto.api.repositorio;
2
3 import java.util.List;
4
5 import org.springframework.data.jpa.repository.JpaRepository;
6 //import org.springframework.data.repository.CrudRepository;
7 //import org.springframework.stereotype.Repository;
8
9 import br.com.projeto.api.modelo.Pessoa;
10 import jakarta.transaction.Transactional;
11
12 //@Repository
13 @Transactional
14 public interface Repositorio extends JpaRepository<Pessoa, Integer>{
15
16 List
17
18 }
19

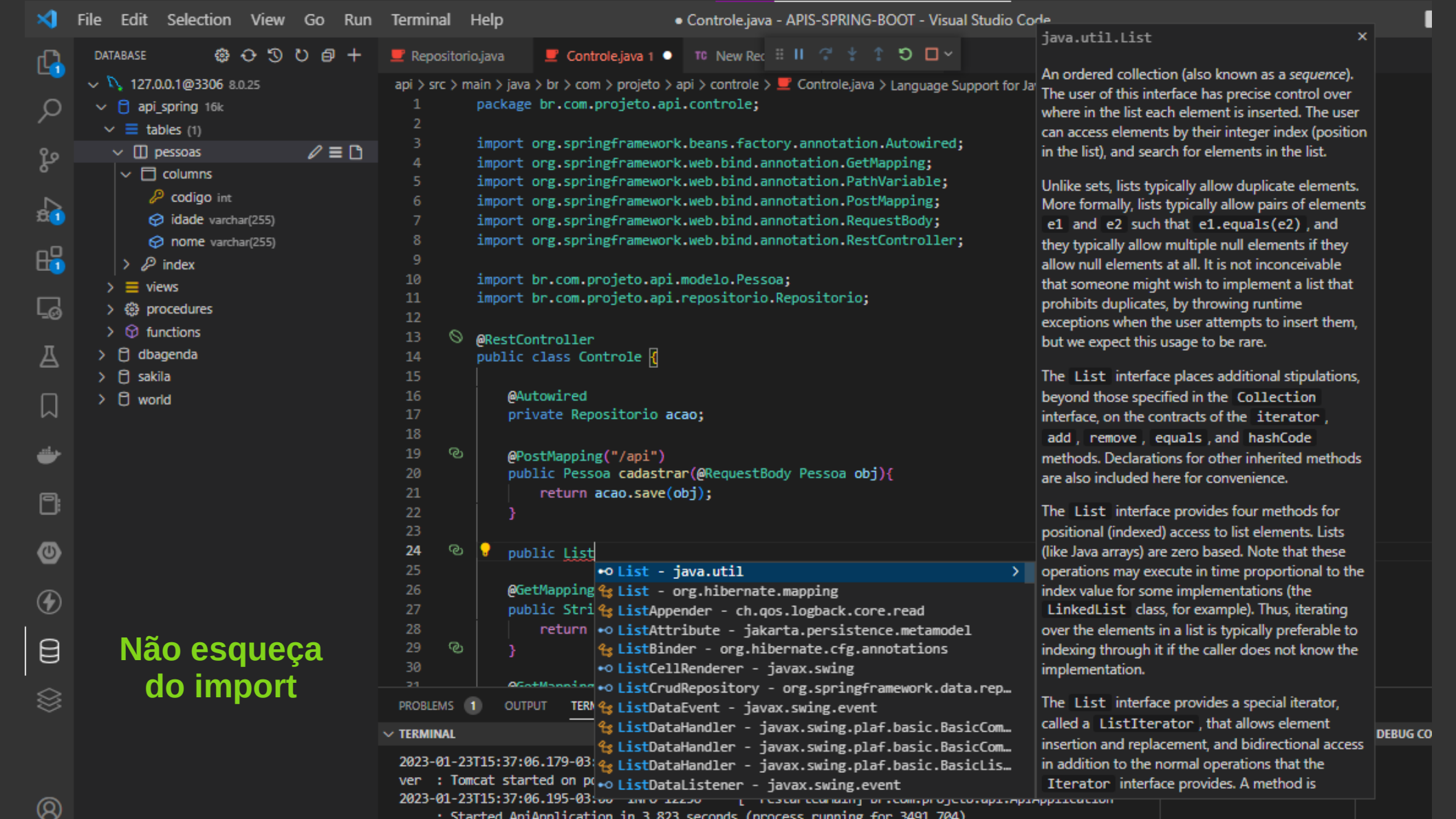


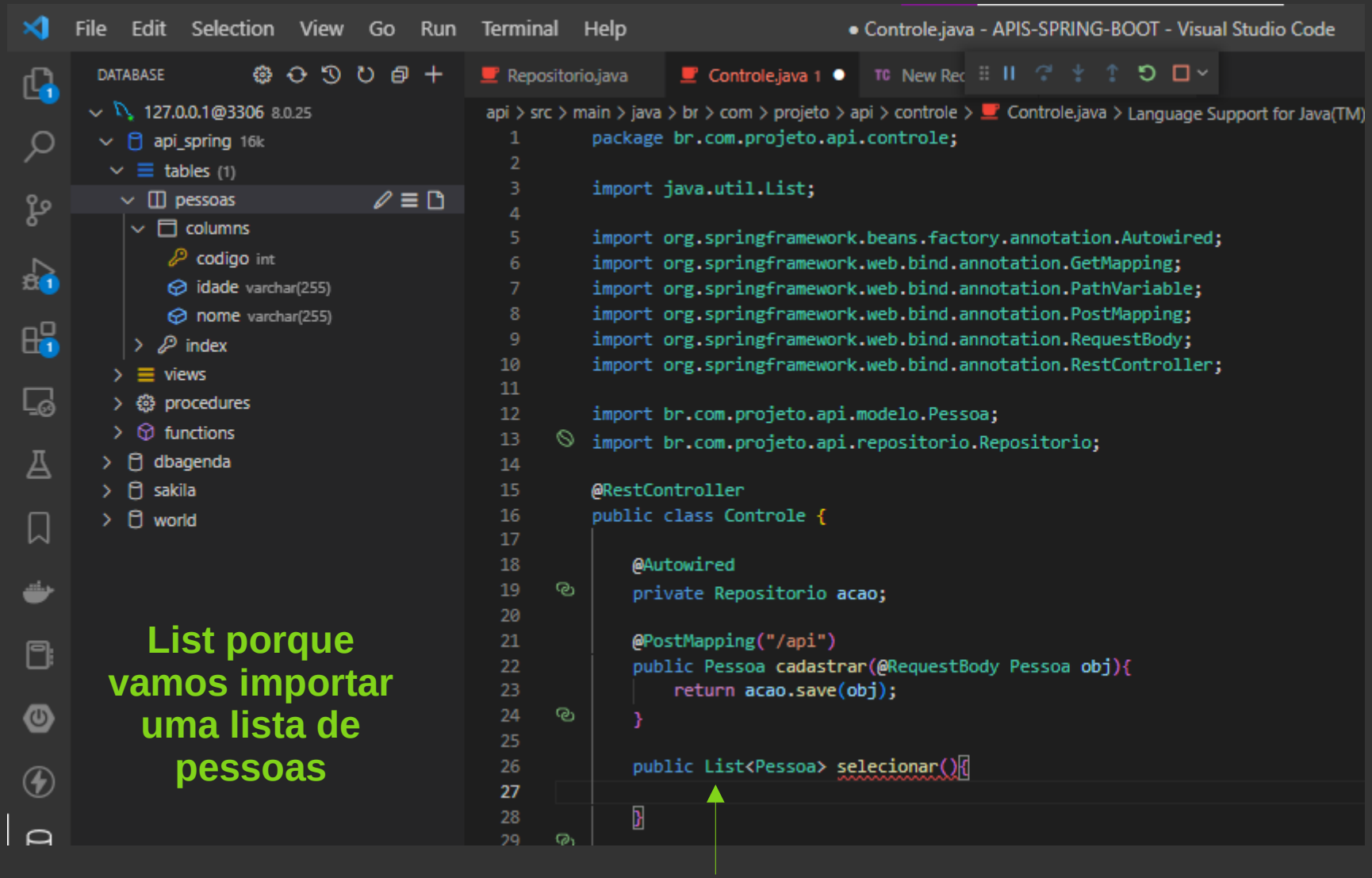
Informamos o tipo de dados que queremos especificar
Não esqueça do import



FindAll() é nativo do crud repositorio

Salve e vamos pro controle criar uma rota pra ele


File Edit Selection View Go Run Terminal Help
• Controle.java - APIS-SPRING-BOOT - Visual Studio Code
DATABASE
127.0.0.1@3306 8.0.25
api_spring 16k
tables (1)
pessoas
columns
codigo int
idade varchar(255)
nome varchar(255)
index
views
procedures
functions
dbagenda
sakila
world
Repositorio.java
Controle.java 1
api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Ja
1 package br.com.projeto.api.controle;
3 import org.springframework.beans.factory.annotation.Autowired;
4 import org.springframework.web.bind.annotation.GetMapping;
5 import org.springframework.web.bind.annotation.PathVariable;
6 import org.springframework.web.bind.annotation.PostMapping;
7 import org.springframework.web.bind.annotation.RequestBody;
8 import org.springframework.web.bind.annotation.RestController;
10 import br.com.projeto.api.modelo.Pessoa;
11 import br.com.projeto.api.repositorio.Repositorio;
13 @RestController
14 public class Controle {
16 @Autowired
17 private Repositorio acao;
19 @PostMapping("/api")
20 public Pessoa cadastrar(@RequestBody Pessoa obj){
21 return acao.save(obj);
22 }
24 public List
List - java.util
List - org.hibernate.mapping
ListAppender - ch.qos.logback.core.read
ListAttribute - jakarta.persistence.metamodel
ListBinder - org.hibernate.cfg.annotations
ListCellRenderer - javax.swing
ListCrudRepository - org.springframework.data.rep…
ListDataEvent - javax.swing.event
ListDataHandler - javax.swing.plaf.basic.BasicCom…
ListDataHandler - javax.swing.plaf.basic.BasicCom…
ListDataHandler - javax.swing.plaf.basic.BasicLis…
ListDataListener - javax.swing.event
java.util.List
An ordered collection (also known as a sequence). The user of this interface has precise control over where in the list each element is inserted. The user can access elements by their integer index (position in the list), and search for elements in the list.
Unlike sets, lists typically allow duplicate elements. More formally, lists typically allow pairs of elements e1 and e2 such that e1.equals(e2), and they typically allow multiple null elements if they allow null elements at all. It is not inconceivable that someone might wish to implement a list that prohibits duplicates, by throwing runtime exceptions when the user attempts to insert them, but we expect this usage to be rare.
The List interface places additional stipulations, beyond those specified in the Collection interface, on the contracts of the iterator, add, remove, equals, and hashCode methods. Declarations for other inherited methods are also included here for convenience.
The List interface provides four methods for positional (indexed) access to list elements. Lists (like Java arrays) are zero based. Note that these operations may execute in time proportional to the index value for some implementations (the LinkedList class, for example). Thus, iterating over the elements in a list is typically preferable to indexing through it if the caller does not know the implementation.
The List interface provides a special iterator, called a ListIterator, that allows element insertion and replacement, and bidirectional access in addition to the normal operations that the Iterator interface provides. A method is
PROBLEMS 1
OUTPUT
TERMINAL
2023-01-23T15:37:06.179-03:
ver : Tomcat started on p
2023-01-23T15:37:06.195-03:
Started ApiApplication in 3.823 seconds (process running for 3491.704)
DEBUG CO
Não esqueça do import


File Edit Selection View Go Run Terminal Help
• Controle.java - APIS-SPRING-BOOT - Visual Studio Code
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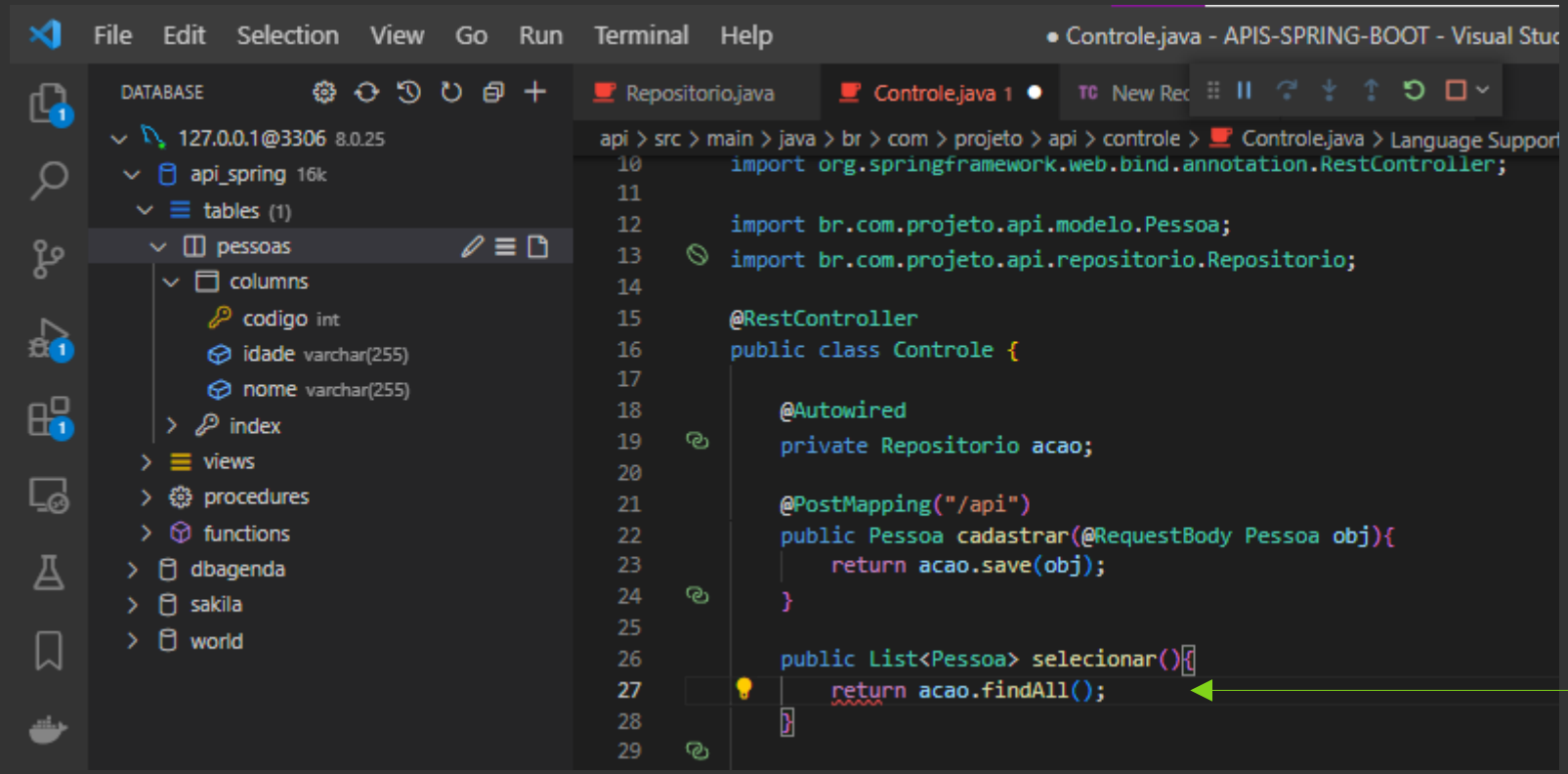
Repositorio.java
Controle.java 1
New Rec
api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Java(TM)
1 package br.com.projeto.api.controle;
2
3 import java.util.List;
4
5 import org.springframework.beans.factory.annotation.Autowired;
6 import org.springframework.web.bind.annotation.GetMapping;
7 import org.springframework.web.bind.annotation.PathVariable;
8 import org.springframework.web.bind.annotation.PostMapping;
9 import org.springframework.web.bind.annotation.RequestBody;
10 import org.springframework.web.bind.annotation.RestController;
11
12 import br.com.projeto.api.modelo.Pessoa;
13 import br.com.projeto.api.repositorio.Repositorio;
14
15 @RestController
16 public class Controle {
17
18 @Autowired
19 private Repositorio acao;
20
21 @PostMapping("/api")
22 public Pessoa cadastrar(@RequestBody Pessoa obj){
23 return acao.save(obj);
24 }
25
26 public List<Pessoa> selecionar(){
27
28 }
29
List porque vamos importar uma lista de pessoas


File Edit Selection View Go Run Terminal Help
• Controle.java - APIS-SPRING-BOOT - Visual Stud
DATABASE
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api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Support
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11
12 import br.com.projeto.api.modelo.Pessoa;
13 import br.com.projeto.api.repositorio.Repositorio;
14
15 @RestController
16 public class Controle {
17
18 @Autowired
19 private Repositorio acao;
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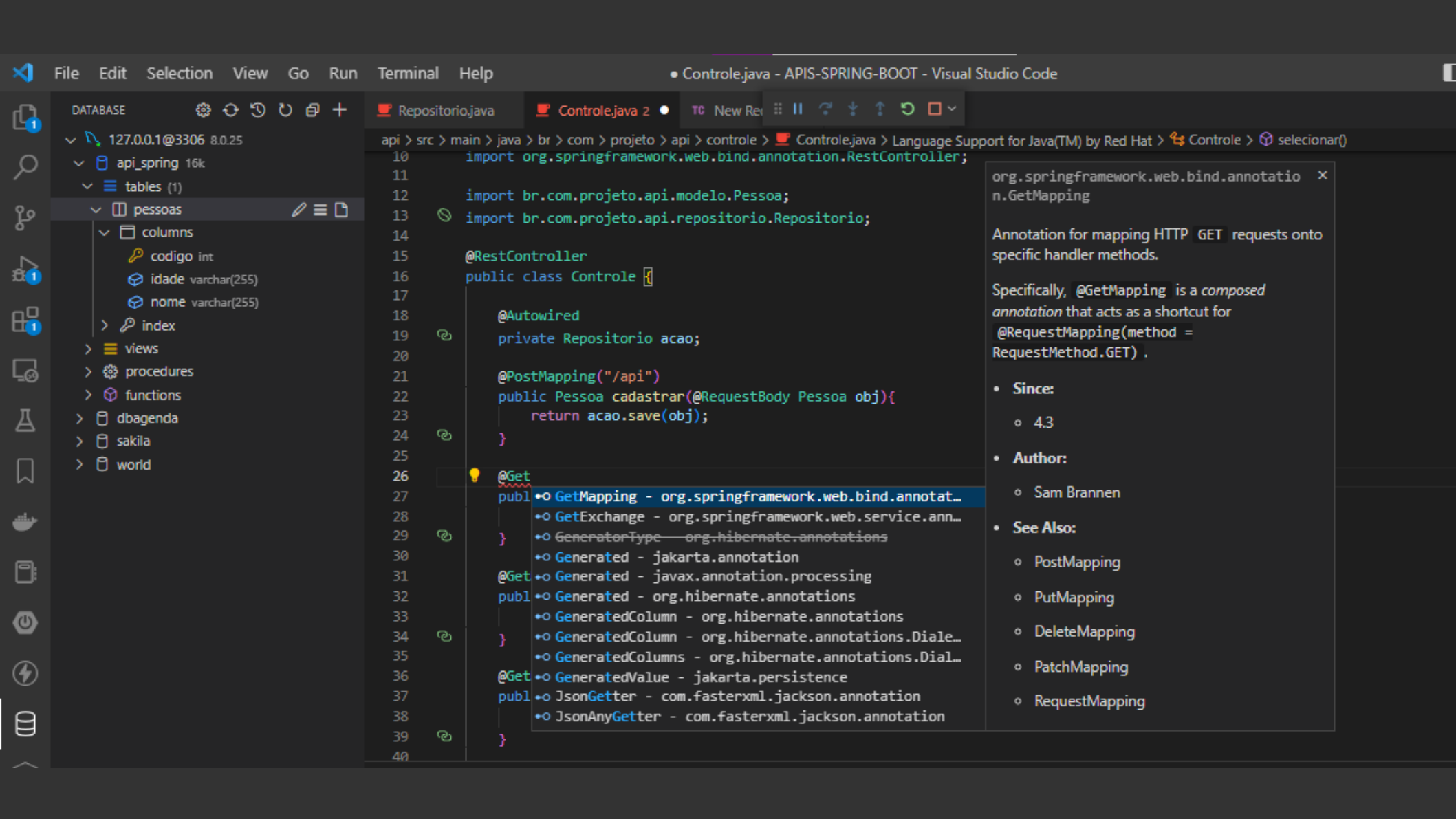
21 @PostMapping("/api")
22 public Pessoa cadastrar(@RequestBody Pessoa obj){
23 return acao.save(obj);
24 }
25
26 public List<Pessoa> selecionar(){
27 return acao.findAll();
28 }
29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world
Repositorio.java
Controle.java 2
New Re
api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Java(TM) by Red Hat > Controle > selecionar()
import org.springframework.web.bind.annotation.RestController;
import br.com.projeto.api.modelo.Pessoa;
import br.com.projeto.api.repositorio.Repositorio;
@RestController
public class Controle {
@Autowired
private Repositorio acao;
@PostMapping("/api")
public Pessoa cadastrar(@RequestBody Pessoa obj){
return acao.save(obj);
}
@Get
publ
}
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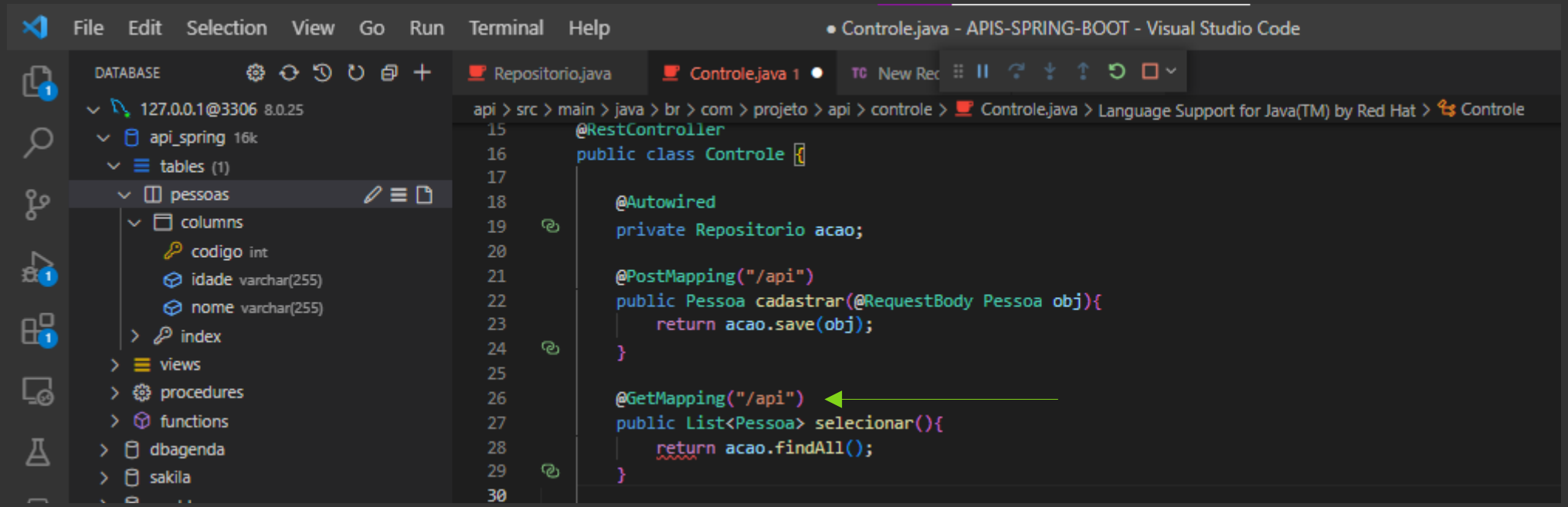
}
@Get
publ
}
GetMapping - org.springframework.web.bind.annotat…
GetExchange - org.springframework.web.service.ann…
GeneratorType - org.hibernate.annotations
Generated - jakarta.annotation
Generated - javax.annotation.processing
Generated - org.hibernate.annotations
GeneratedColumn - org.hibernate.annotations
GeneratedColumn - org.hibernate.annotations.Diale…
GeneratedColumns - org.hibernate.annotations.Dial…
GeneratedValue - jakarta.persistence
JsonGetter - com.fasterxml.jackson.annotation
JsonAnyGetter - com.fasterxml.jackson.annotation
org.springframework.web.bind.annotation.GetMapping
Annotation for mapping HTTP GET requests onto specific handler methods.
Specifically, @GetMapping is a composed annotation that acts as a shortcut for @RequestMapping(method = RequestMethod.GET).
Since:
4.3
Author:
Sam Brannen
See Also:
PostMapping
PutMapping
DeleteMapping
PatchMapping
RequestMapping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api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Java(TM) by Red Hat > Controle
@RestController
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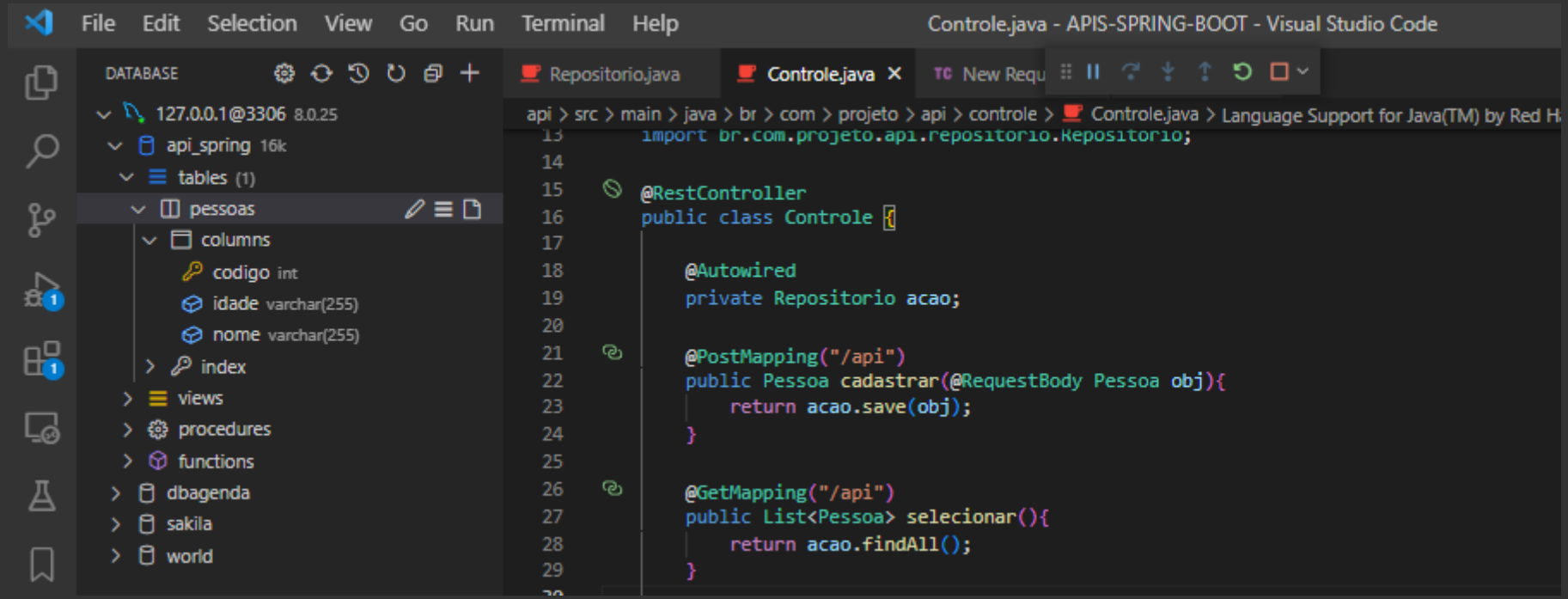
return acao.save(obj);
}
@GetMapping("/api")
public List<Pessoa> selecionar(){
return acao.findAll();
}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Controle.java - APIS-SPRING-BOOT - Visual Studio Code
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Repositorio.java
Controle.java
api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Java(TM) by Red H
import br.com.projeto.api.repositorio.Repositorio;
@RestController
public class Controle {
@Autowired
private Repositorio acao;
@PostMapping("/api")
public Pessoa cadastrar(@RequestBody Pessoa obj){
return acao.save(obj);
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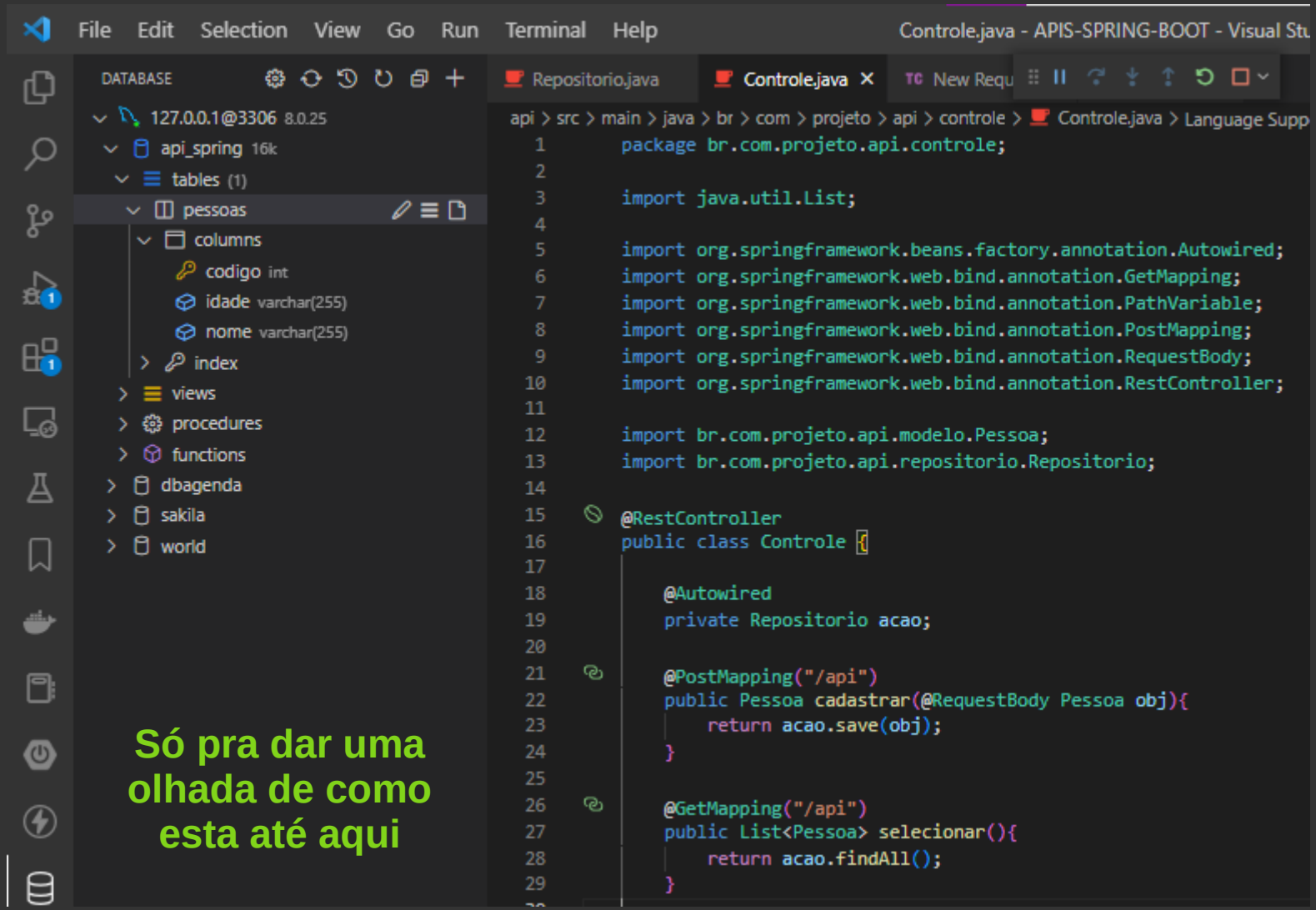
@GetMapping("/api")
public List<Pessoa> selecionar(){
return acao.findAll();
}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api_spring 16k
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2
3 import java.util.List;
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6 import org.springframework.web.bind.annotation.GetMapping;
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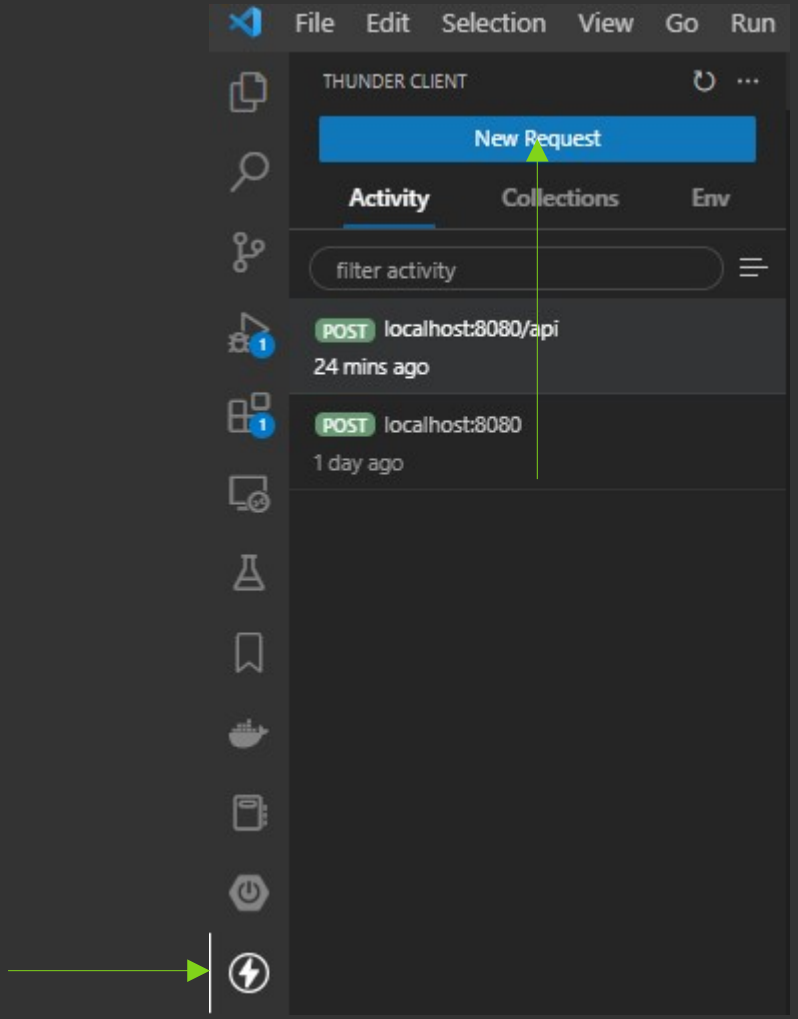
8 import org.springframework.web.bind.annotation.PostMapping;
9 import org.springframework.web.bind.annotation.RequestBody;
10 import org.springframework.web.bind.annotation.RestController;
11
12 import br.com.projeto.api.modelo.Pessoa;
13 import br.com.projeto.api.repositorio.Repositorio;
14
15 @RestController
16 public class Controle {
17
18 @Autowired
19 private Repositorio acao;
20
21 @PostMapping("/api")
22 public Pessoa cadastrar(@RequestBody Pessoa obj){
23 return acao.save(obj);
24 }
25
26 @GetMapping("/api")
27 public List<Pessoa> selecionar(){
28 return acao.findAll();
29 }
Só pra dar uma olhada de como esta até aqui

Agora quando realizarmos uma requisição get serão listados os dados da tabela de pessoas
Vamos no thunder client e realizamos uma nova requisição


File
Edit
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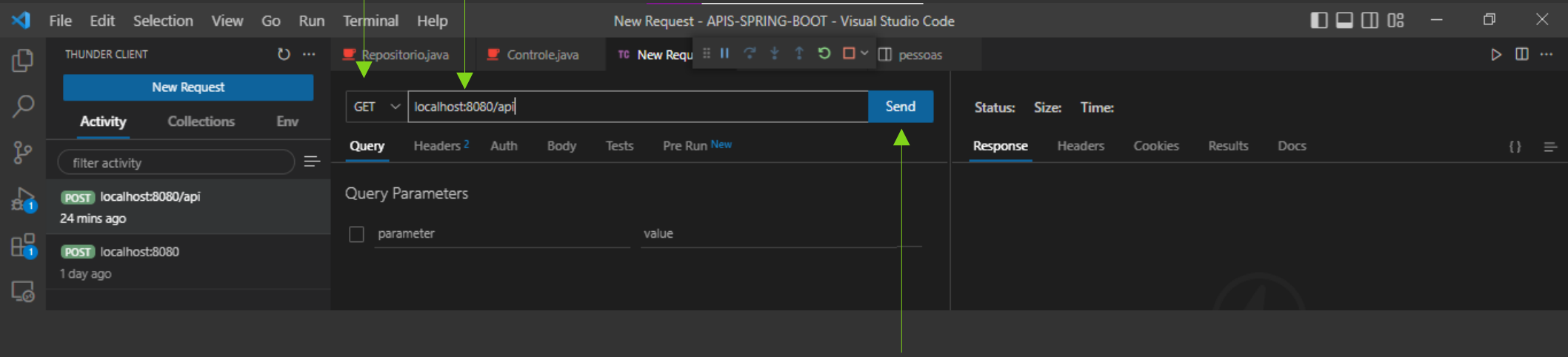
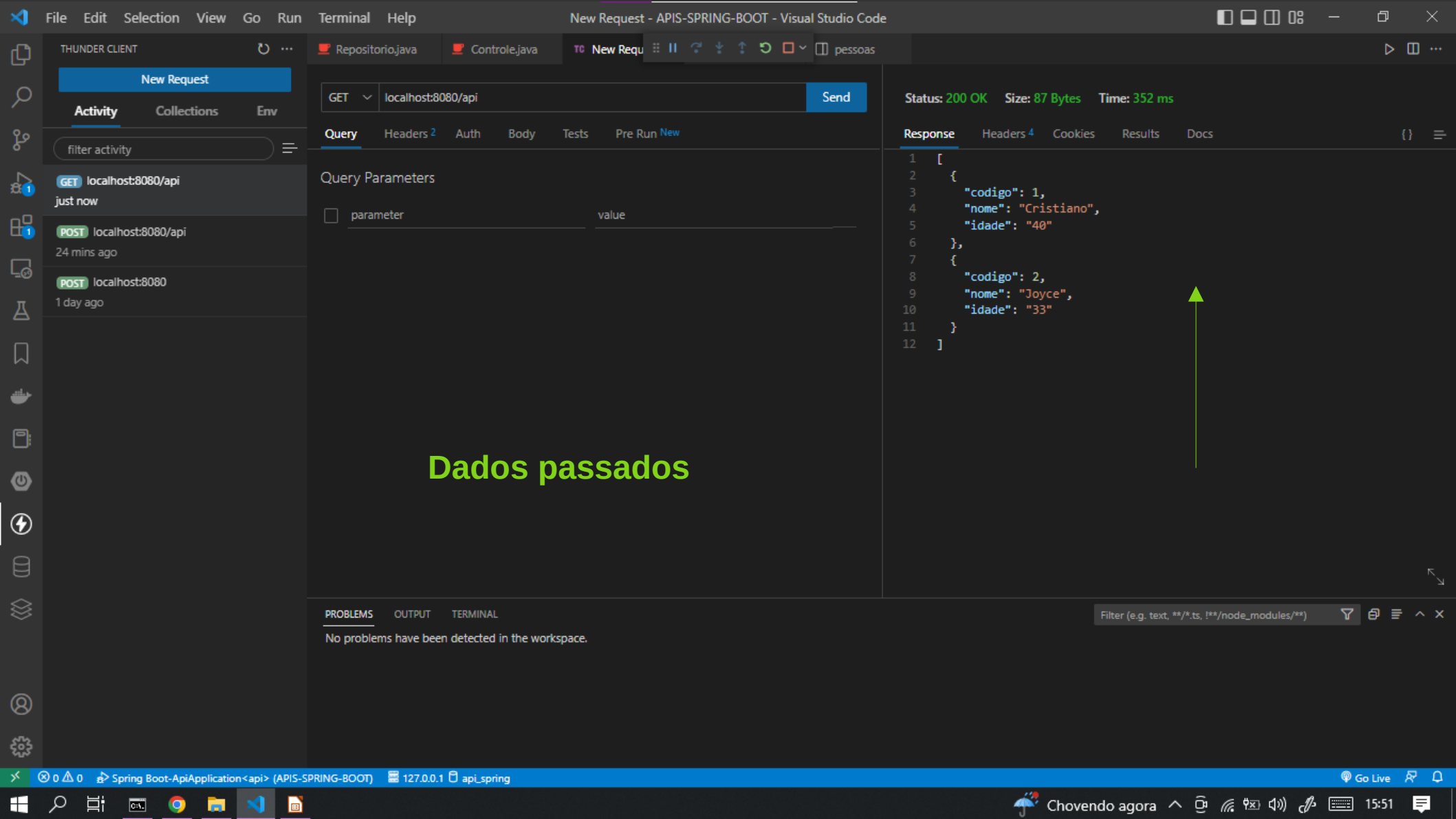
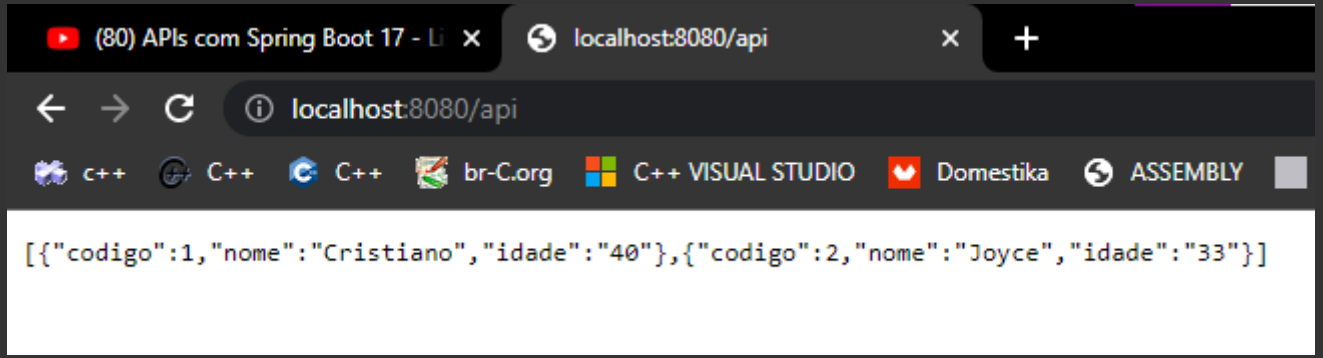
Run
THUNDER CLIENT
New Request
Activity
Collections
Env
filter activity
POST localhost:8080/api
24 mins ago
POST localhost:8080
1 day ago


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
POST localhost:8080/api
24 mins ago
POST localhost:8080
1 day ago
Repositorio.java
Controle.java
New Requ
pessoas
GET
localhost:8080/api
Send
Query
Headers 2
Auth
Body
Tests
Pre Run New
Query Parameters
parameter
value
Status:
Size:
Time:
Response
Headers
Cookies
Results
Docs


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
GET localhost:8080/api
just now
POST localhost:8080/api
24 mins ago
POST localhost:8080
1 day ago
Repositorio.java
Controle.java
New Requ
pessoas
GET
localhost:8080/api
Send
Query
Headers 2
Auth
Body
Tests
Pre Run New
Query Parameters
parameter
value
Dados passados
Status: 200 OK
Size: 87 Bytes
Time: 352 ms
Response
Headers 4
Cookies
Results
Docs
[
{
"codigo": 1,
"nome": "Cristiano",
"idade": "40"
},
{
"codigo": 2,
"nome": "Joyce",
"idade": "33"
}
]
PROBLEMS
OUTPUT
TERMINAL
Filter (e.g. text, **/*.ts, !**/node_modules/**)
No problems have been detected in the workspace.
Spring Boot-ApiApplication<api> (APIS-SPRING-BOOT)
127.0.0.1
api_spring
Go Live
Chovendo agora
15:51

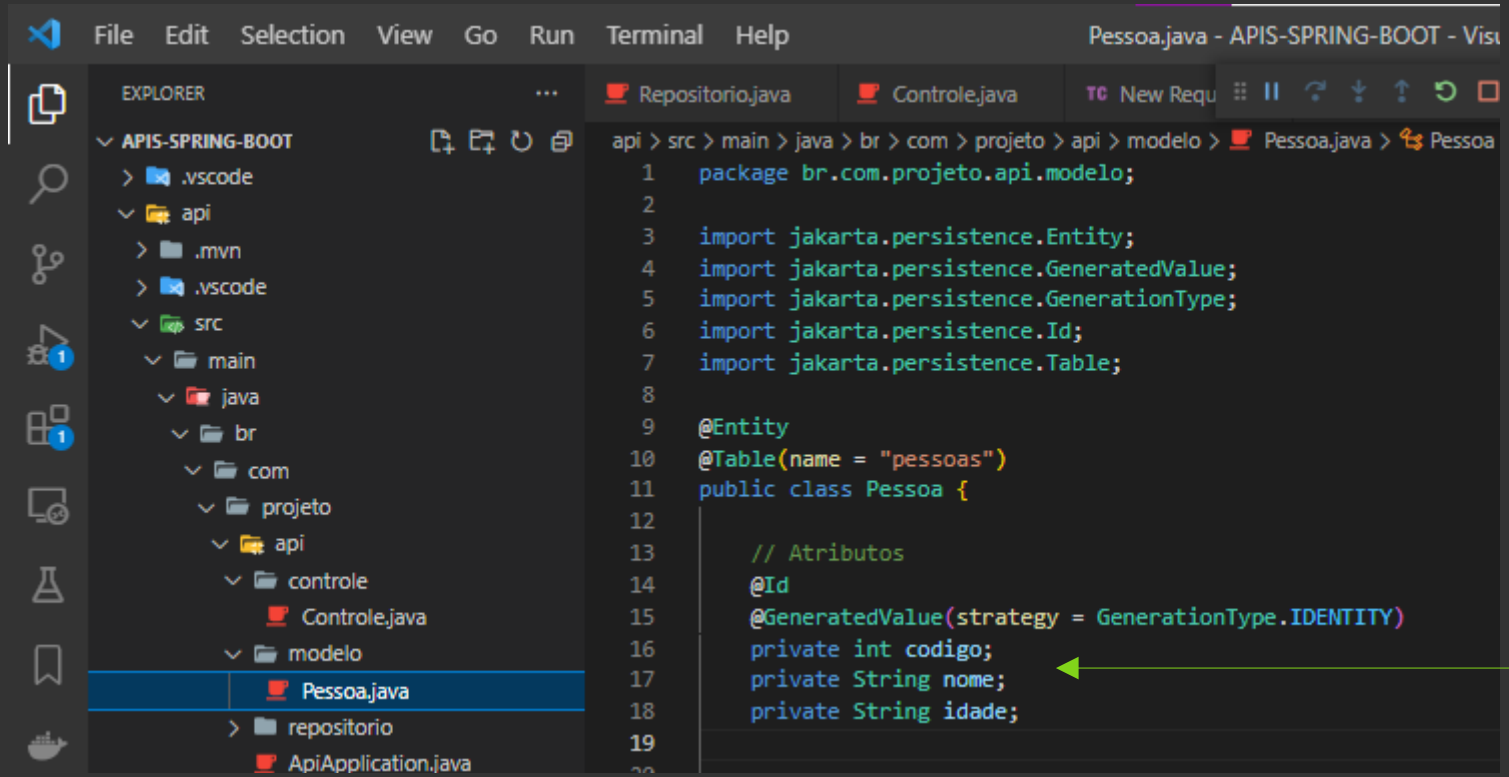
Da mesma forma os dados já são passados pelo navegador



#18
Filtrando dado com findBy()

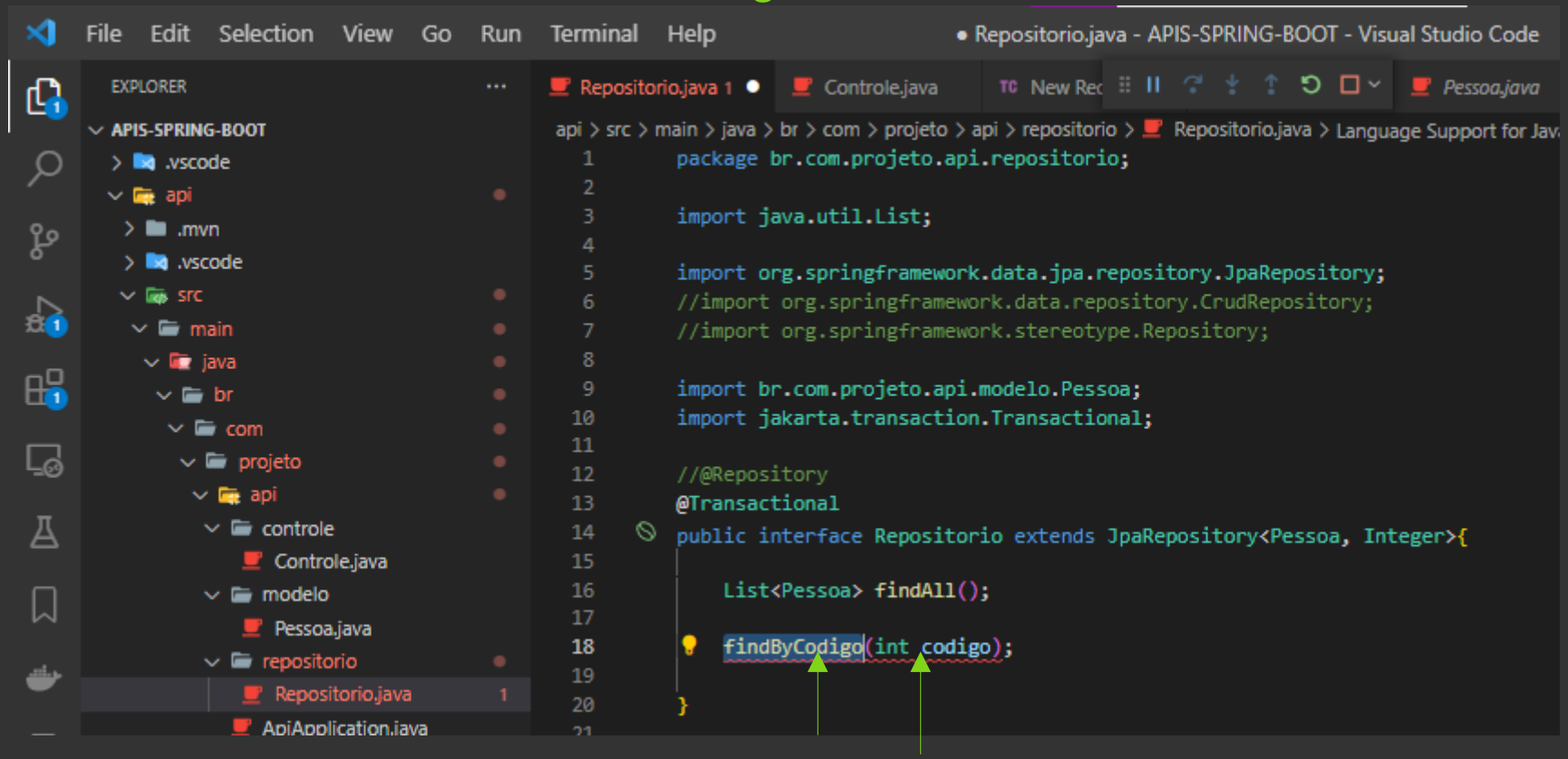
O que faz o comando findBy()?
Posso procurar uma informação pela sua caracteristica

Lembrando que podemos usar qualquer caracteristica que temos na classe
Ex: codigo nome idade

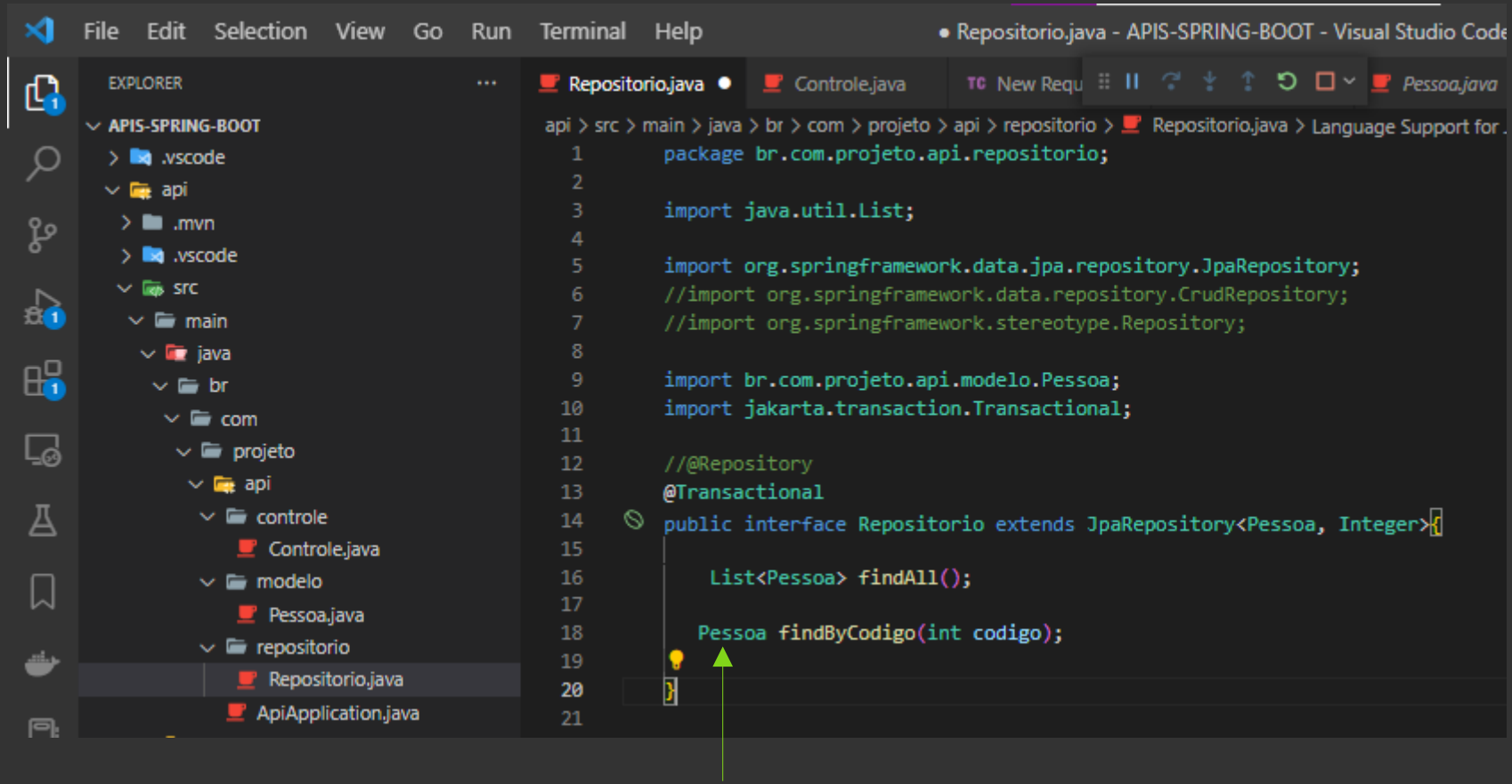


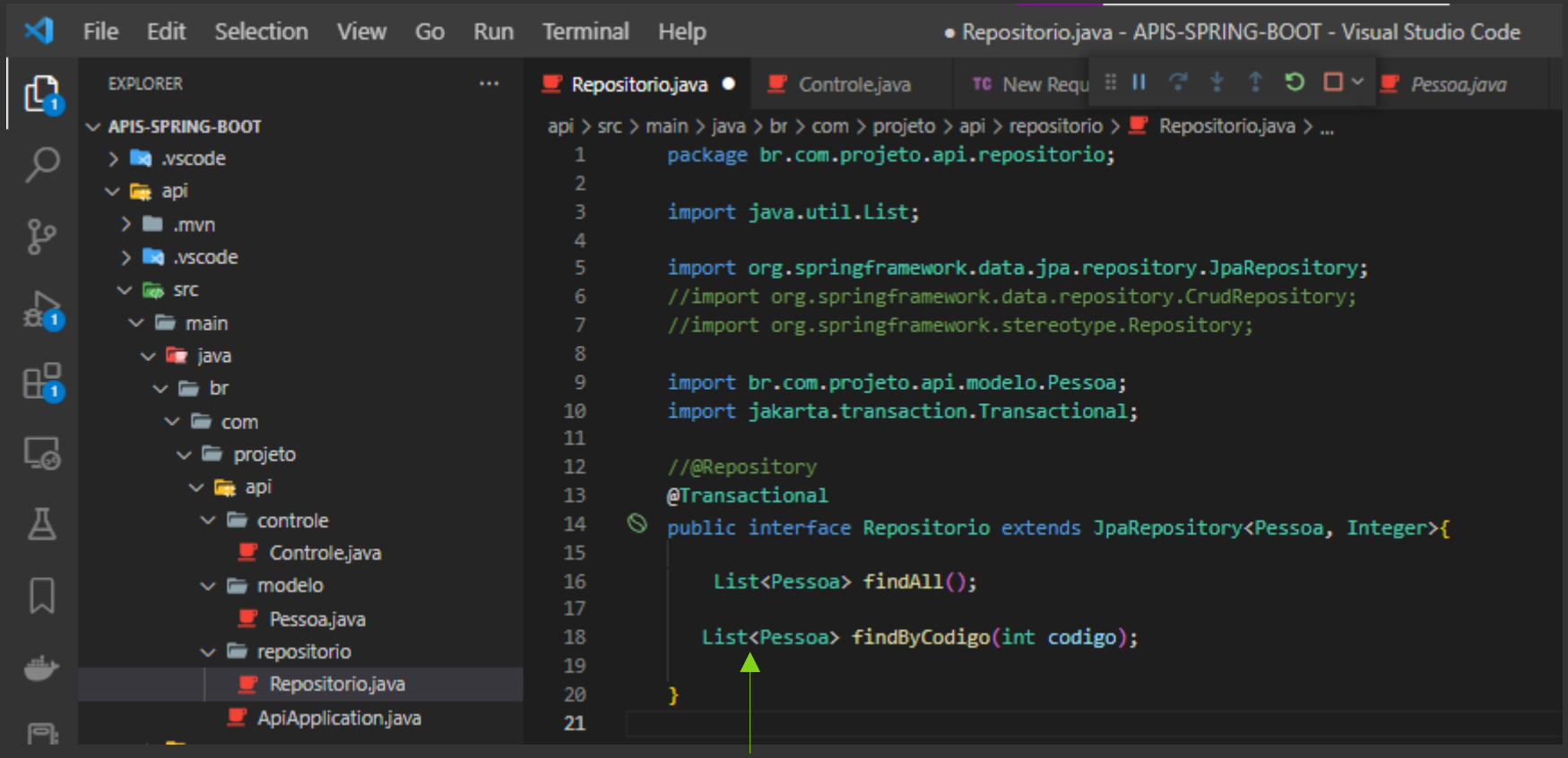
Dai vem os dados ou eu posso trabalhar com
findBy codigo
findBy nome
findBy idade
Vou fazer um exemplo usando o codigo

Passamos o nome do atributo e passamos um parametro int codigo



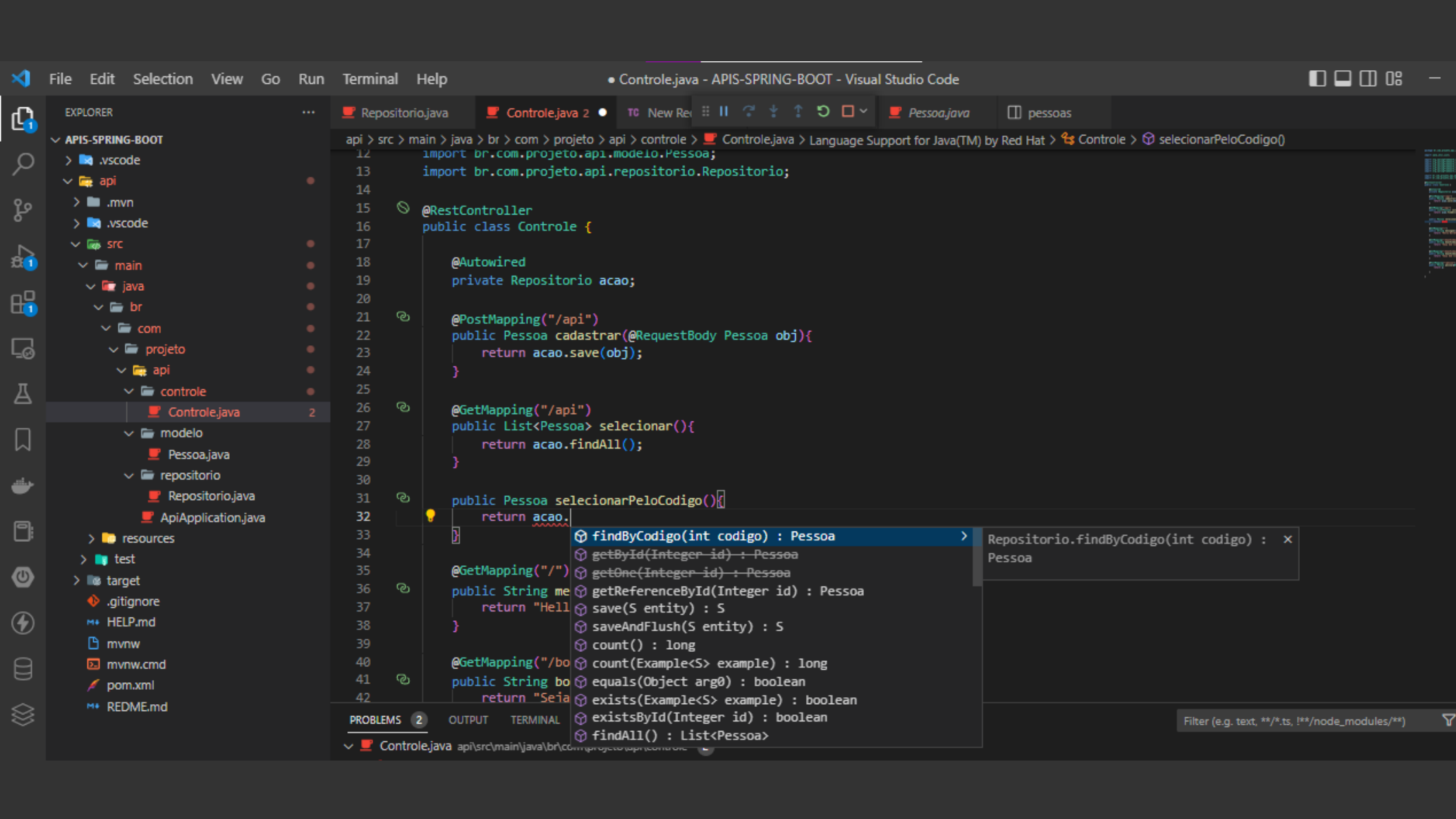
Por fim o que o findByCodigo retorno uma Pessoa





Faça assim se o dado for retornar uma lista de pessoas ou seja se formos retornar mais de um registro

Salve e va em controle para criarmos a rota


File Edit Selection View Go Run Terminal Help
• Controle.java - APIS-SPRING-BOOT - Visual Studio Code
EXPLORER
APIS-SPRING-BOOT
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api
.mvn
.vscode
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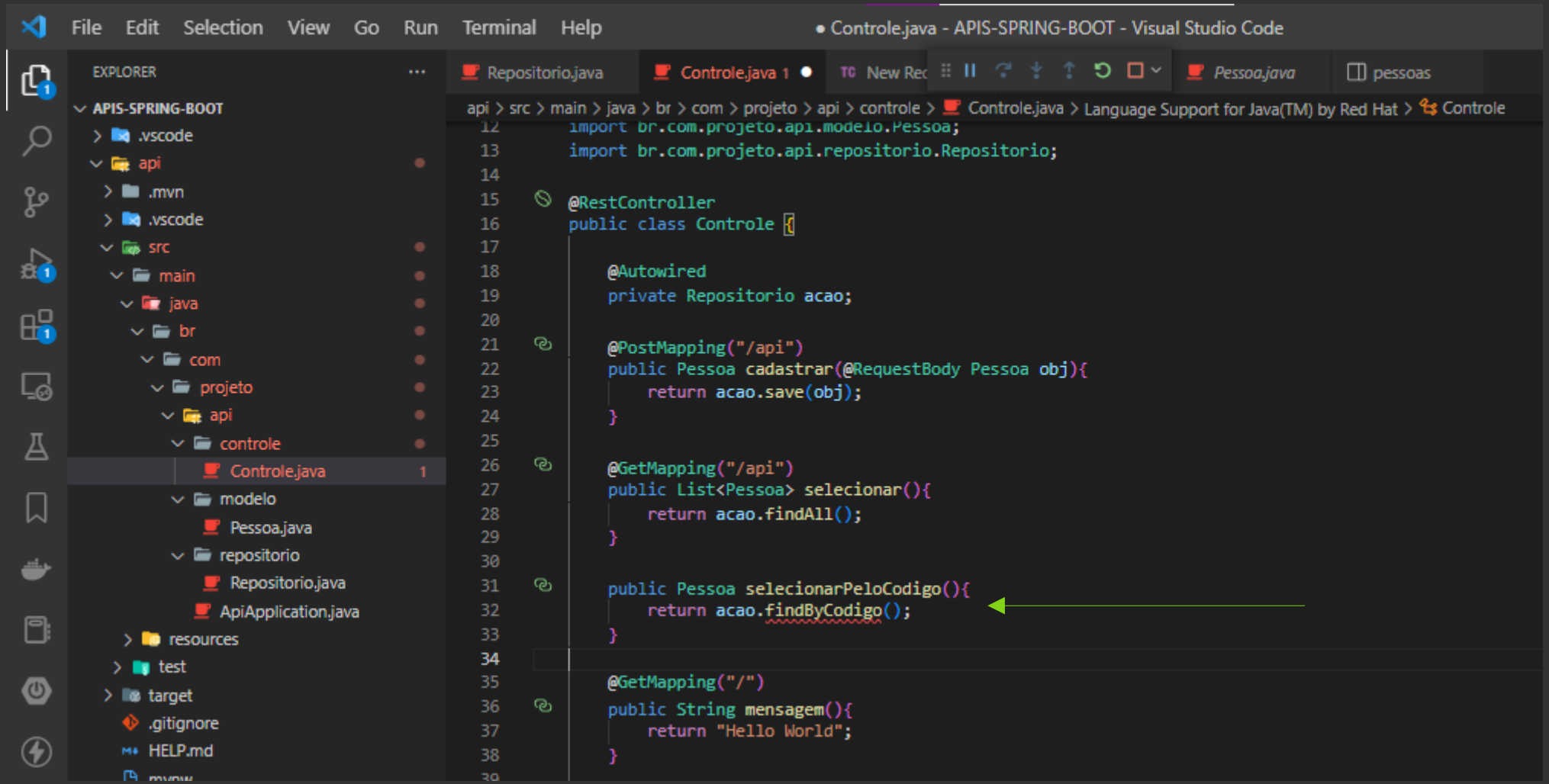
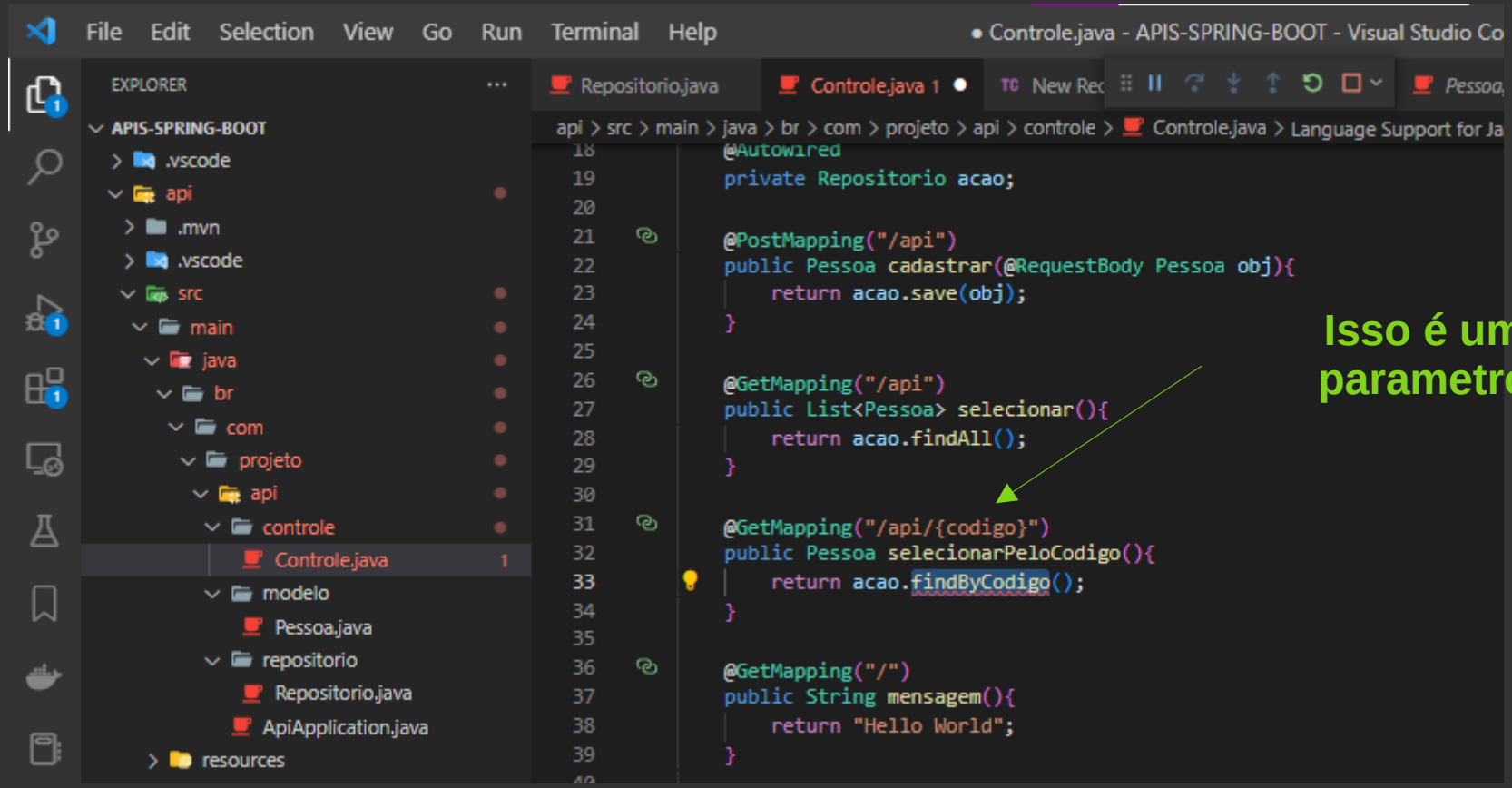
com
projeto
api
controle
Controle.java 2
modelo
Pessoa.java
repositorio
Repositorio.java
ApiApplication.java
resources
test
target
.gitignore
HELP.md
mvnw
mvnw.cmd
pom.xml
REDME.md
Repositorio.java
Controle.java 2
Pessoa.java
pessoas
api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Java(TM) by Red Hat > Controle > selecionarPeloCodigo()
import br.com.projeto.api.modelo.Pessoa;
import br.com.projeto.api.repositorio.Repositorio;
@RestController
public class Controle {
@Autowired
private Repositorio acao;
@PostMapping("/api")
public Pessoa cadastrar(@RequestBody Pessoa obj){
return acao.save(obj);
}
@GetMapping("/api")
public List<Pessoa> selecionar(){
return acao.findAll();
}
public Pessoa selecionarPeloCodigo(){
return acao.
findByCodigo(int codigo) : Pessoa
getById(Integer id) : Pessoa
getOne(Integer id) : Pessoa
getReferenceById(Integer id) : Pessoa
save(S entity) : S
saveAndFlush(S entity) : S
count() : long
count(Example<S> example) : long
equals(Object arg0) : boolean
exists(Example<S> example) : boolean
existsById(Integer id) : boolean
findAll() : List<Pessoa>
Repositorio.findByCodigo(int codigo) : Pessoa
PROBLEMS 2
OUTPUT
TERMINAL
Filter (e.g. text, **/*.ts, !**/node_modules/**)
Controle.java api\src\main\java\br\com\projeto\api\controle



Como eu pego esse codigo


File Edit Selection View Go Run Terminal Help
• Controle.java - APIS-SPRING-BOOT - Visual Studio Co
EXPLORER
APIS-SPRING-BOOT
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Controle.java 1
modelo
Pessoa.java
repositorio
Repositorio.java
ApiApplication.java
resources
Repositorio.java
Controle.java 1
api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Ja
@Autowired
private Repositorio acao;
@PostMapping("/api")
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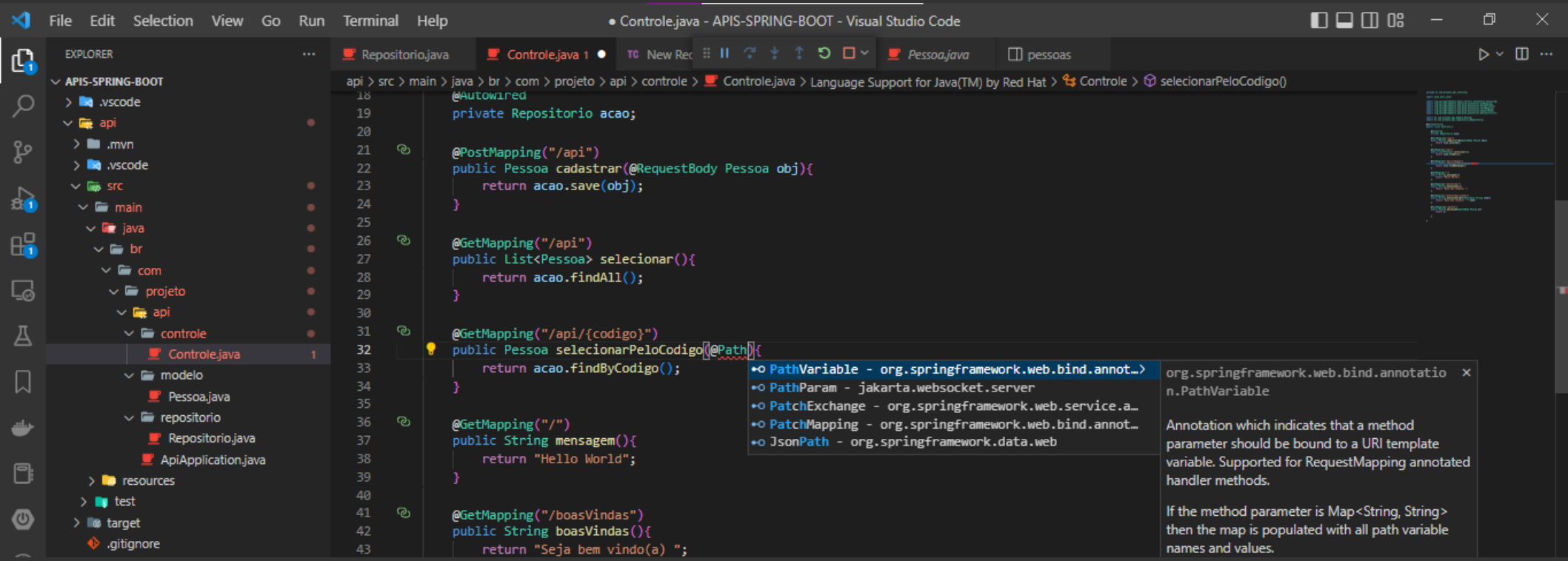
return acao.save(obj);
}
@GetMapping("/api")
public List<Pessoa> selecionar(){
return acao.findAll();
}
@GetMapping("/api/{codigo}")
public Pessoa selecionarPeloCodigo(){
return acao.findByCodigo();
}
@GetMapping("/")
public String mensagem(){
return "Hello World";
}
Isso é um parametro


File Edit Selection View Go Run Terminal Help
• Controle.java - APIS-SPRING-BOOT - Visual Studio Code
EXPLORER
APIS-SPRING-BOOT
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api
.mvn
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projeto
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controle
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modelo
Pessoa.java
repositorio
Repositorio.java
ApiApplication.java
resources
test
target
.gitignore
Repositorio.java
Controle.java 1
New Rec
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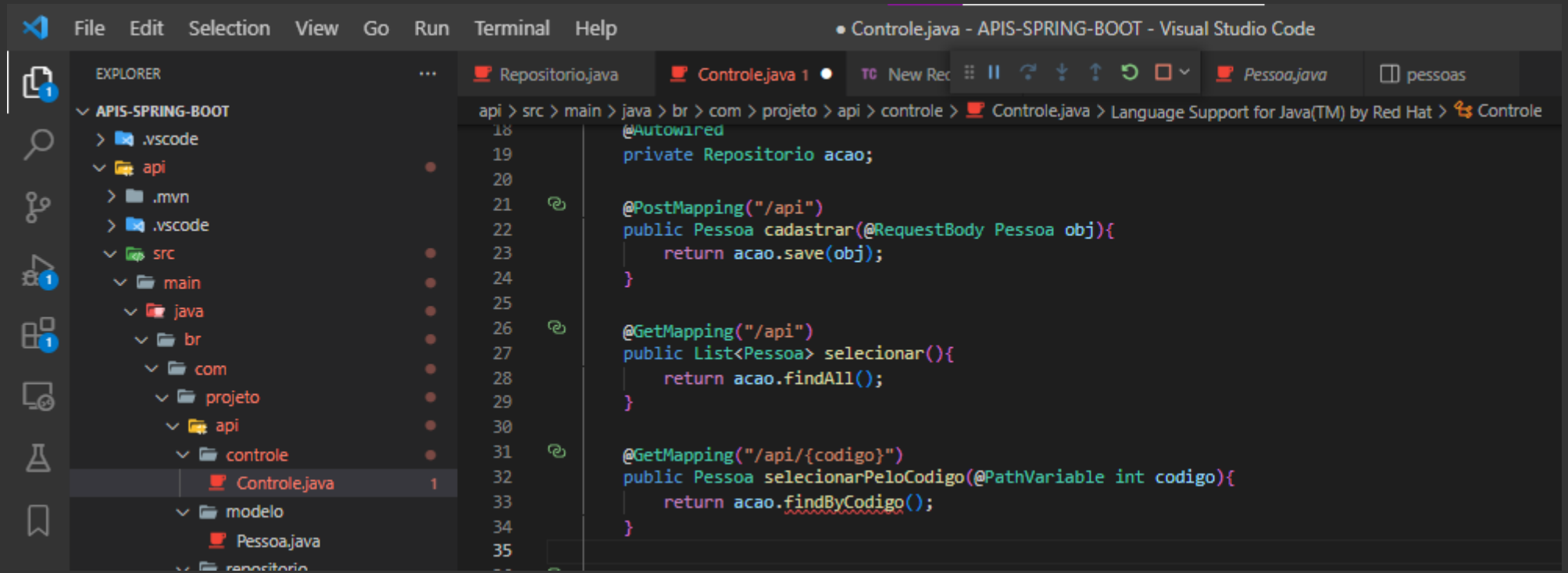
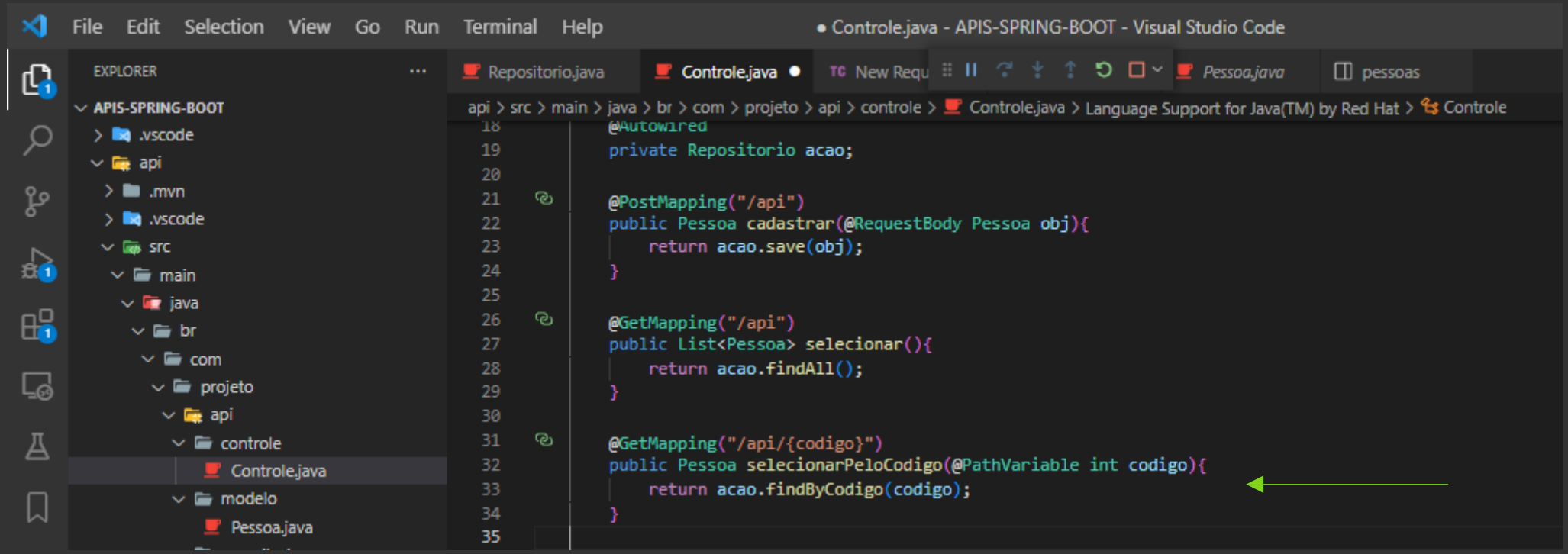
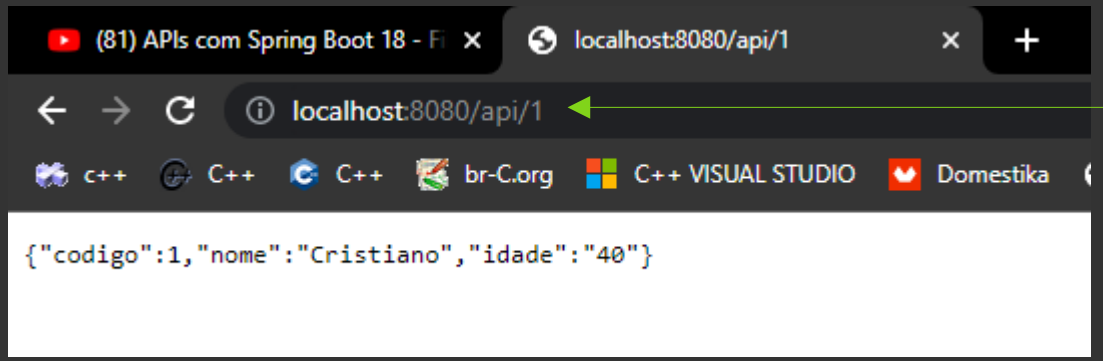
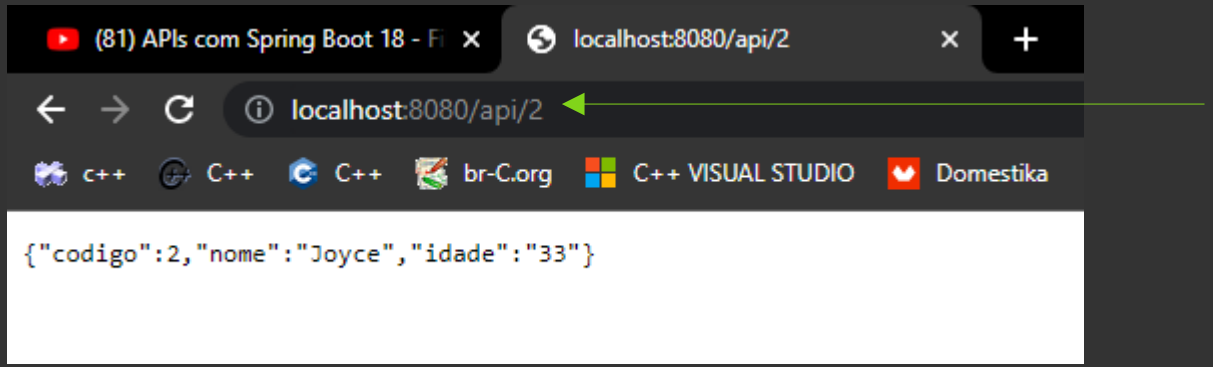
pessoas
api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Java(TM) by Red Hat > Controle > selecionarPeloCodigo()
@Autowired
private Repositorio acao;
@PostMapping("/api")
public Pessoa cadastrar(@RequestBody Pessoa obj){
return acao.save(obj);
}
@GetMapping("/api")
public List<Pessoa> selecionar(){
return acao.findAll();
}
@GetMapping("/api/{codigo}")
public Pessoa selecionarPeloCodigo(@Path){
return acao.findByCodigo();
}
@GetMapping("/")
public String mensagem(){
return "Hello World";
}
@GetMapping("/boasVindas")
public String boasVindas(){
return "Seja bem vindo(a) ";
PathVariable - org.springframework.web.bind.annot…
PathParam - jakarta.websocket.server
PatchExchange - org.springframework.web.service.a…
PatchMapping - org.springframework.web.bind.annot…
JsonPath - org.springframework.data.web
org.springframework.web.bind.annotation.PathVariable
Annotation which indicates that a method parameter should be bound to a URI template variable. Supported for RequestMapping annotated handler methods.
If the method parameter is Map<String, String> then the map is populated with all path variable names and values.


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 1
modelo
Pessoa.java
Repositorio.java
Controle.java 1
New Rec
Pessoa.java
pessoas
api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Java(TM) by Red Hat > Controle
@Autowired
private Repositorio acao;
@PostMapping("/api")
public Pessoa cadastrar(@RequestBody Pessoa obj){
return acao.save(obj);
}
@GetMapping("/api")
public List<Pessoa> selecionar(){
return acao.findAll();
}
@GetMapping("/api/{codigo}")
public Pessoa selecionarPeloCodigo(@PathVariable int codigo){
return acao.findByCodigo();
}

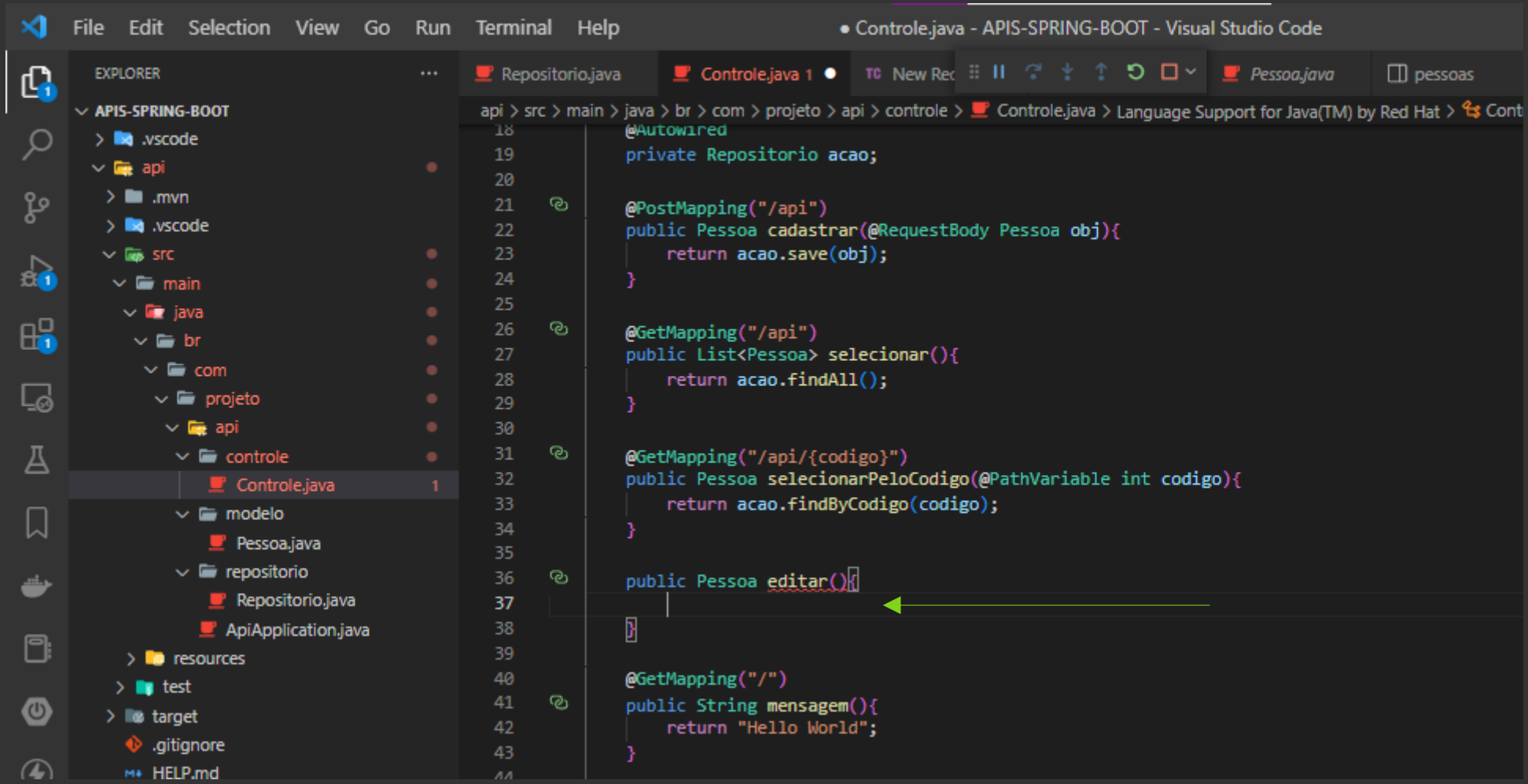


Salve e va na url testar

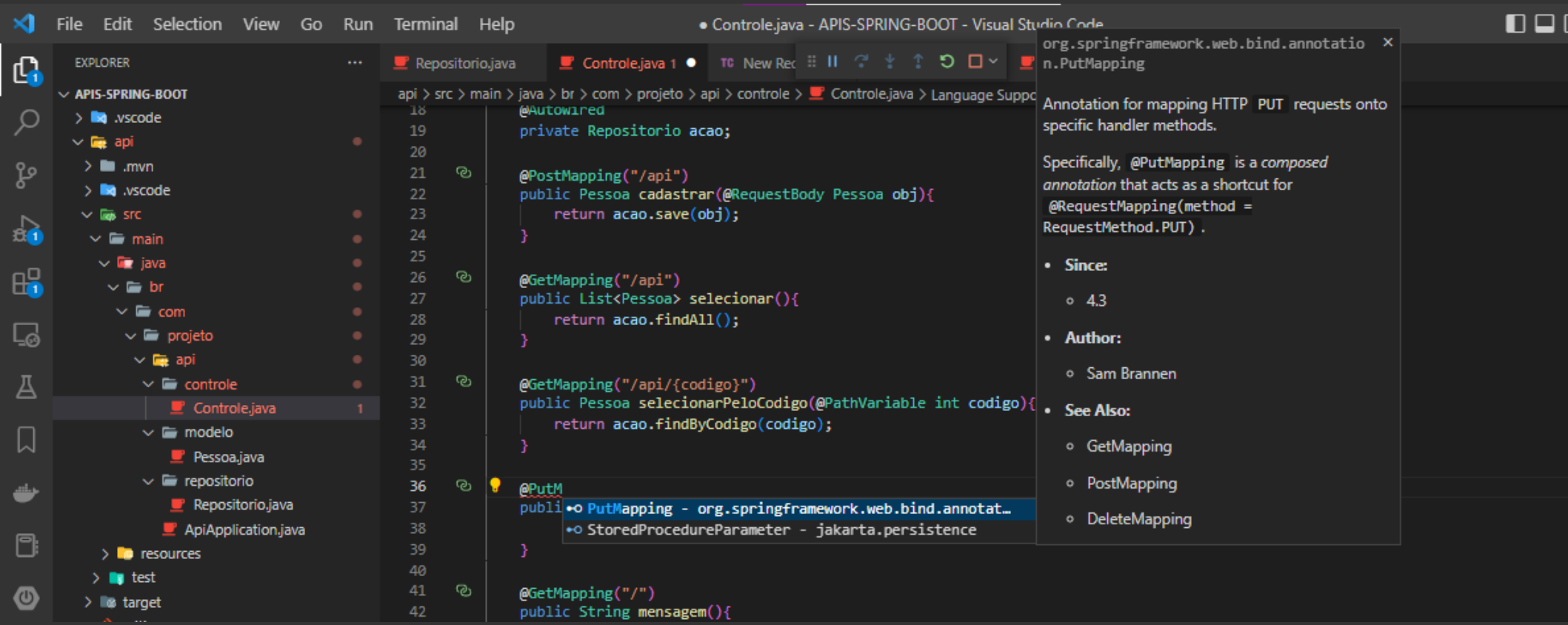

(81) APIs com Spring Boot 18 - Fi
localhost:8080/api/1
localhost:8080/api/1
c++
C++
C++
br-C.org
C++ VISUAL STUDIO
Domestika
{"codigo":1,"nome":"Cristiano","idade":"40"}


(81) APIs com Spring Boot 18 - Fi
localhost:8080/api/2
localhost:8080/api/2
c++
C++
C++
br-C.org
C++ VISUAL STUDIO
Domestika
{"codigo":2,"nome":"Joyce","idade":"33"}

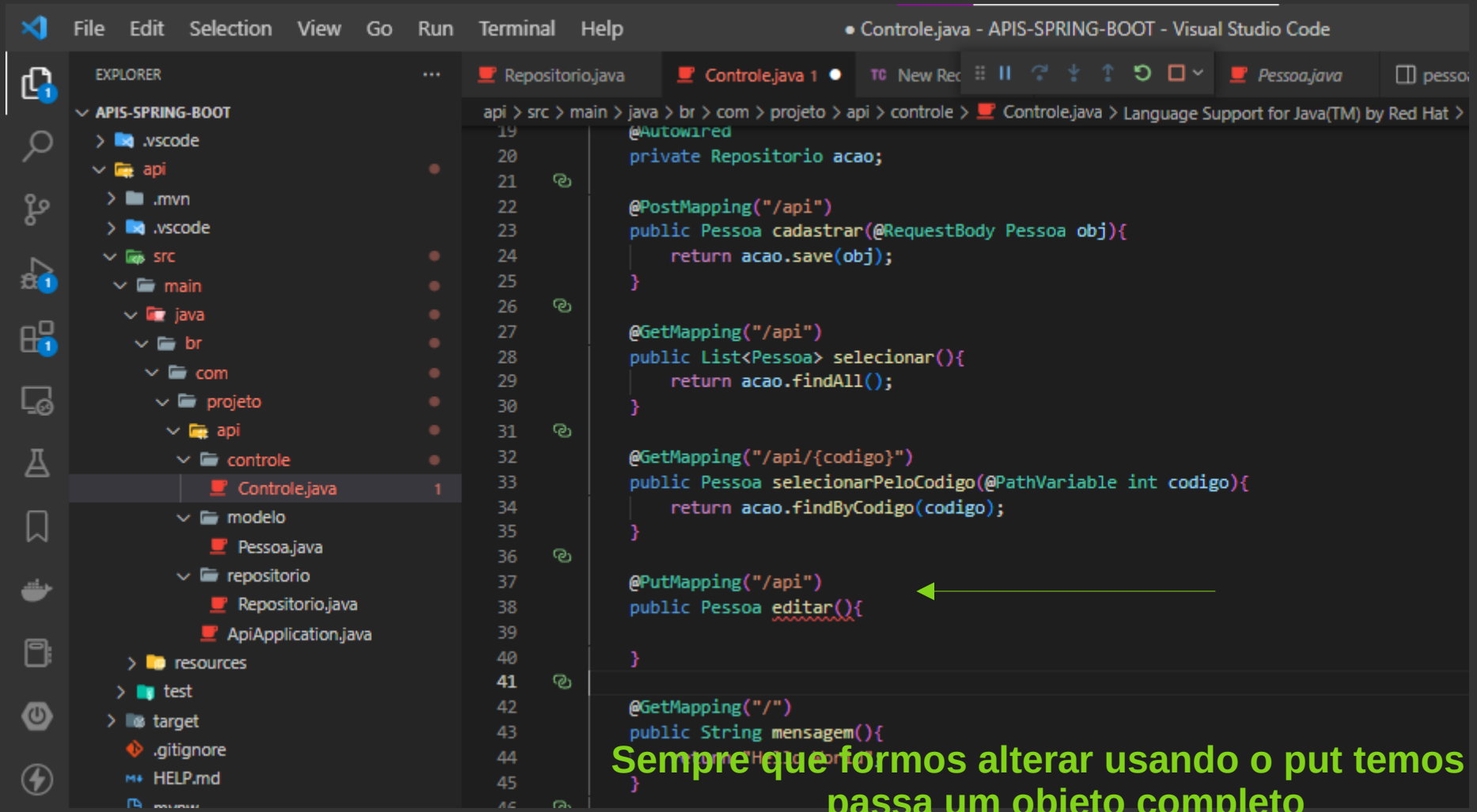
#19
Alterando dados com save equivalente ao update do sql



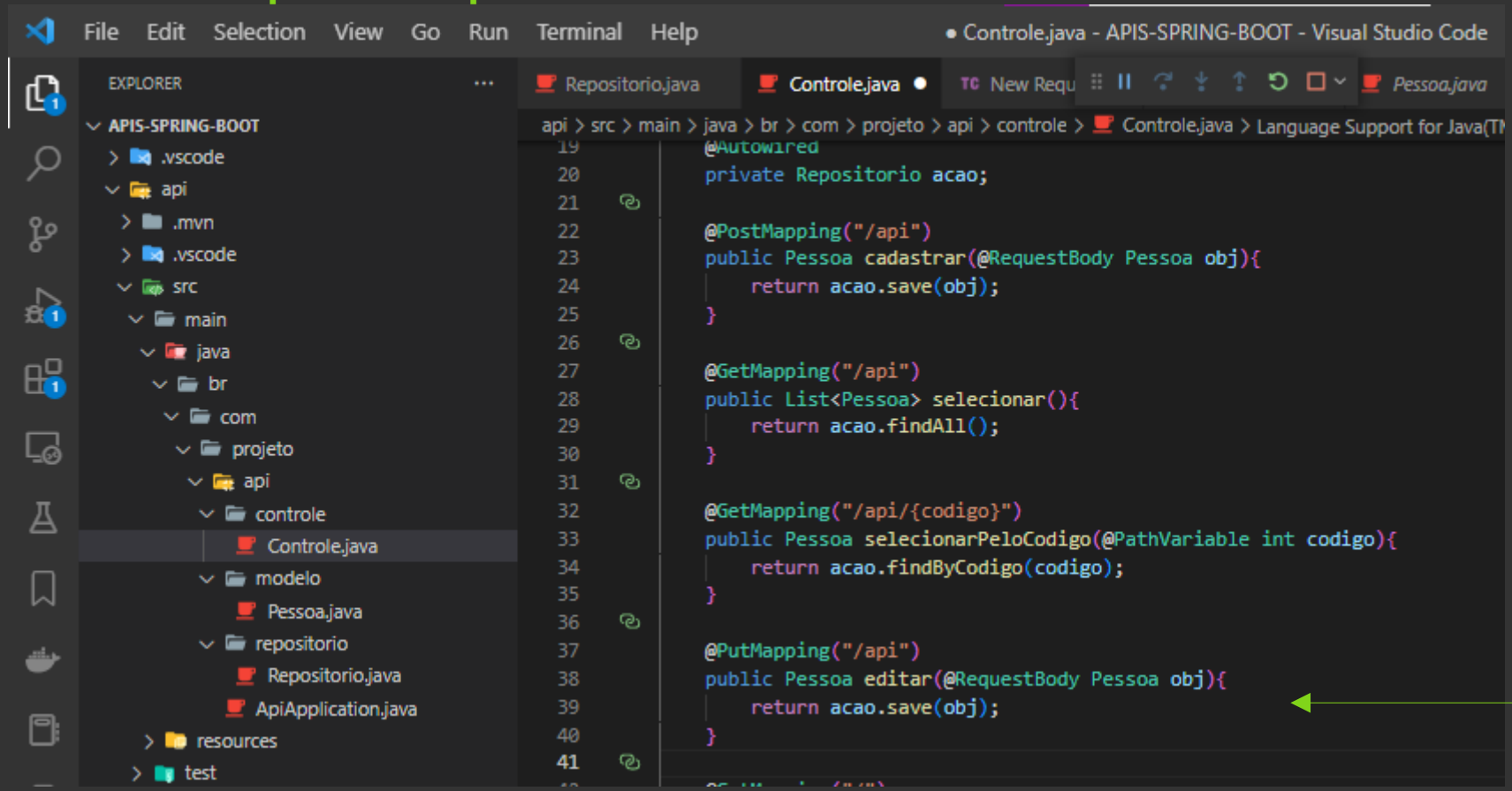
Criamos o metodo



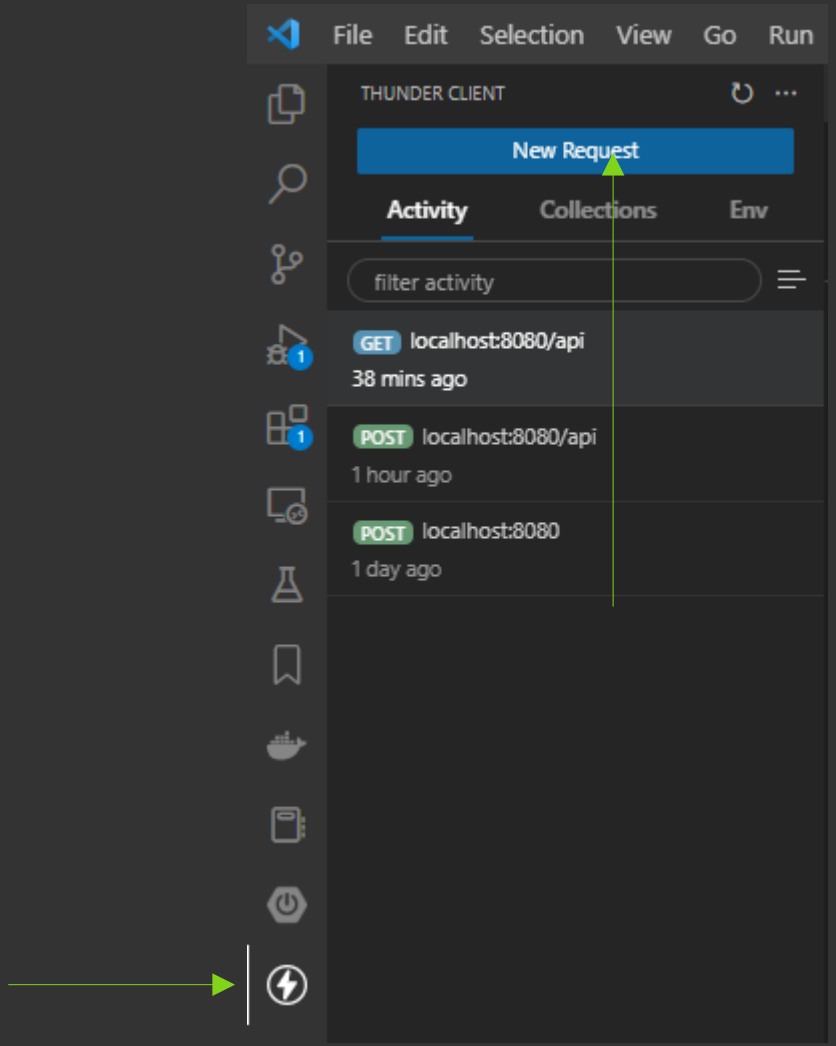
Adicionamos a anotation @PutMapping

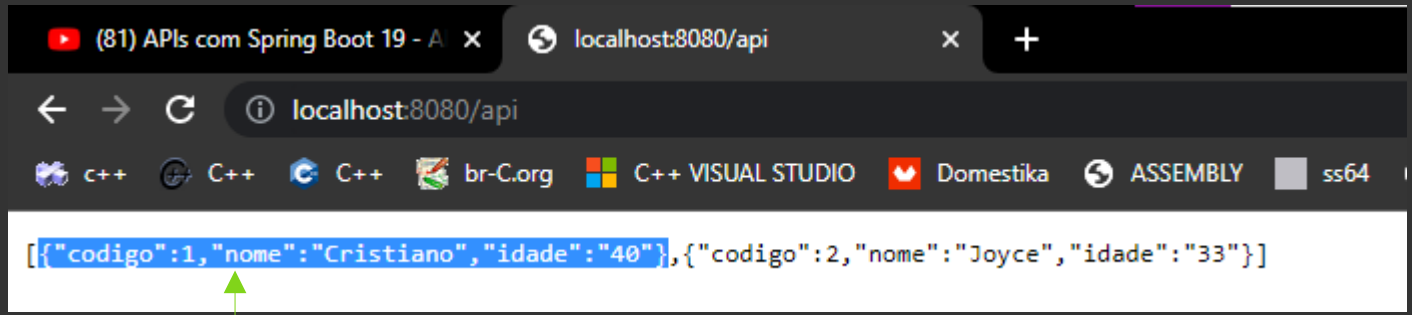

File Edit Selection View Go Run Terminal Help
• Controle.java - APIS-SPRING-BOOT - Visual Studio Code
EXPLORER
APIS-SPRING-BOOT
.vscode
api
.mvn
.vscode
src
main
java
br
com
projeto
api
controle
Controle.java
modelo
Pessoa.java
repositorio
Repositorio.java
ApiApplication.java
resources
test
target
.gitignore
HELP.md
Repositorio.java
Controle.java 1
Pessoa.java
api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Java(TM) by Red Hat >
@Autowired
private Repositorio acao;
@PostMapping("/api")
public Pessoa cadastrar(@RequestBody Pessoa obj){
return acao.save(obj);
}
@GetMapping("/api")
public List<Pessoa> selecionar(){
return acao.findAll();
}
@GetMapping("/api/{codigo}")
public Pessoa selecionarPeloCodigo(@PathVariable int codigo){
return acao.findByCodigo(codigo);
}
@PutMapping("/api")
public Pessoa editar(){
}
@GetMapping("/")
public String mensagem(){
}
Sempre que formos alterar usando o put temos de passa um objeto completo

Com put temos de passar o objeto completo não podemos passar só um atributo

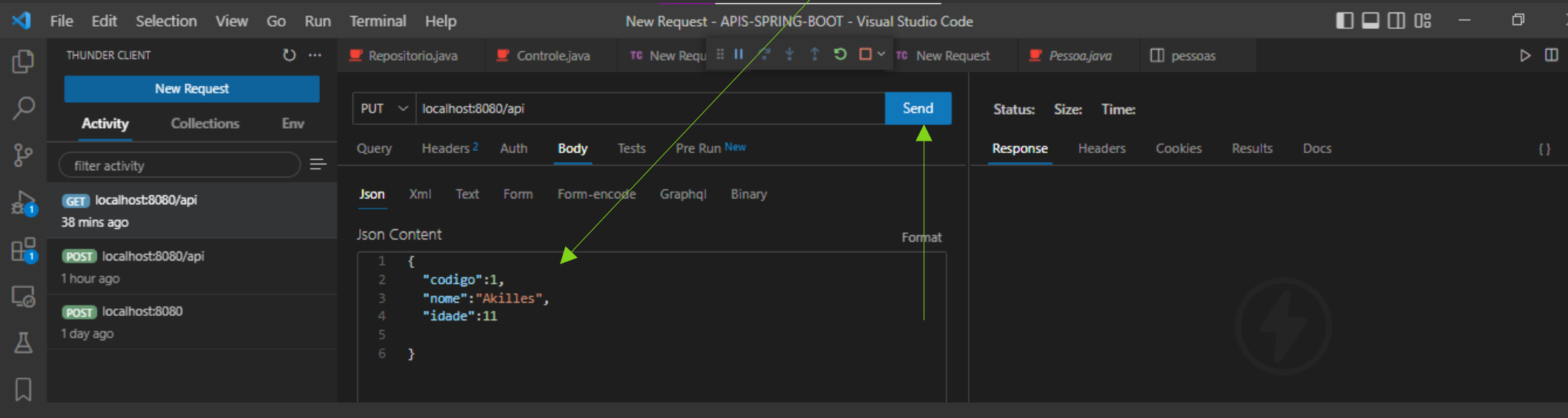


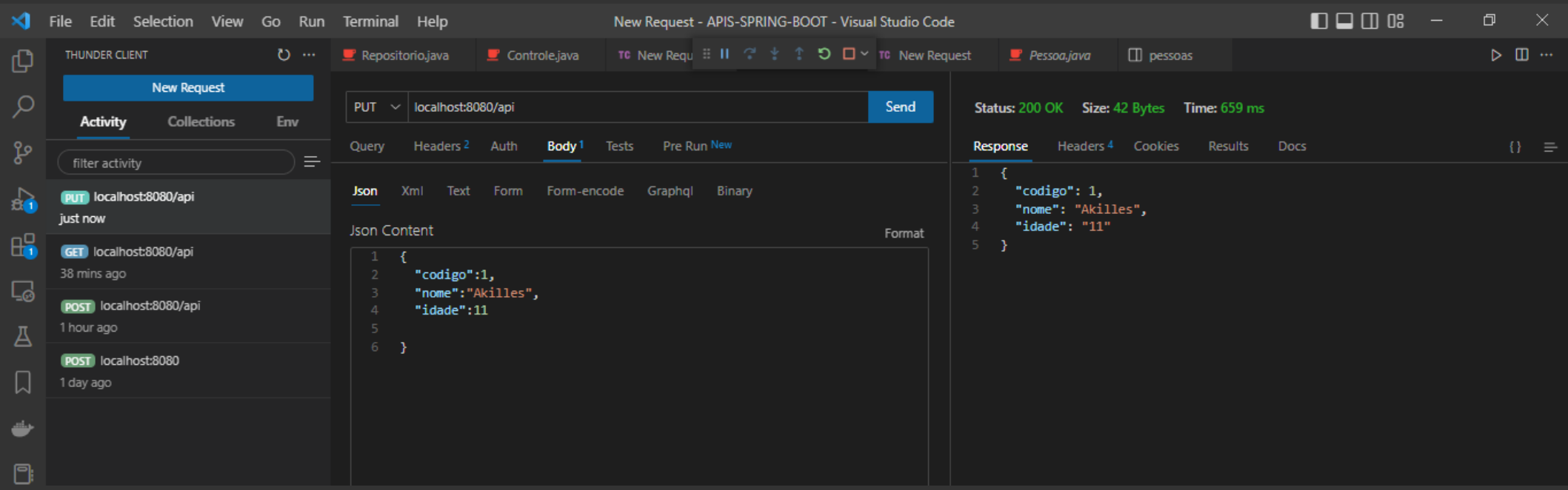
Salve e va no thunder client


File
Edit
Selection
View
Go
Run
THUNDER CLIENT
New Request
Activity
Collections
Env
filter activity
GET localhost:8080/api
38 mins ago
POST localhost:8080/api
1 hour ago
POST localhost:8080
1 day ago



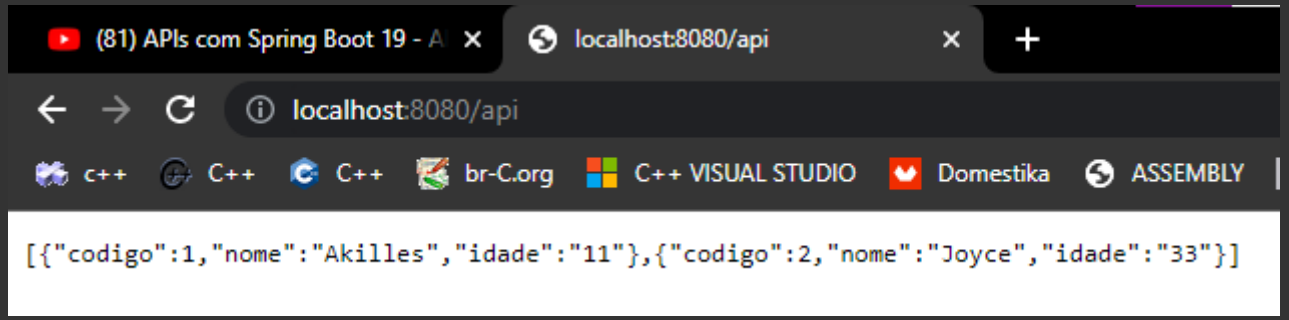
Colamos e mudamos os dados de cristiano para akilles



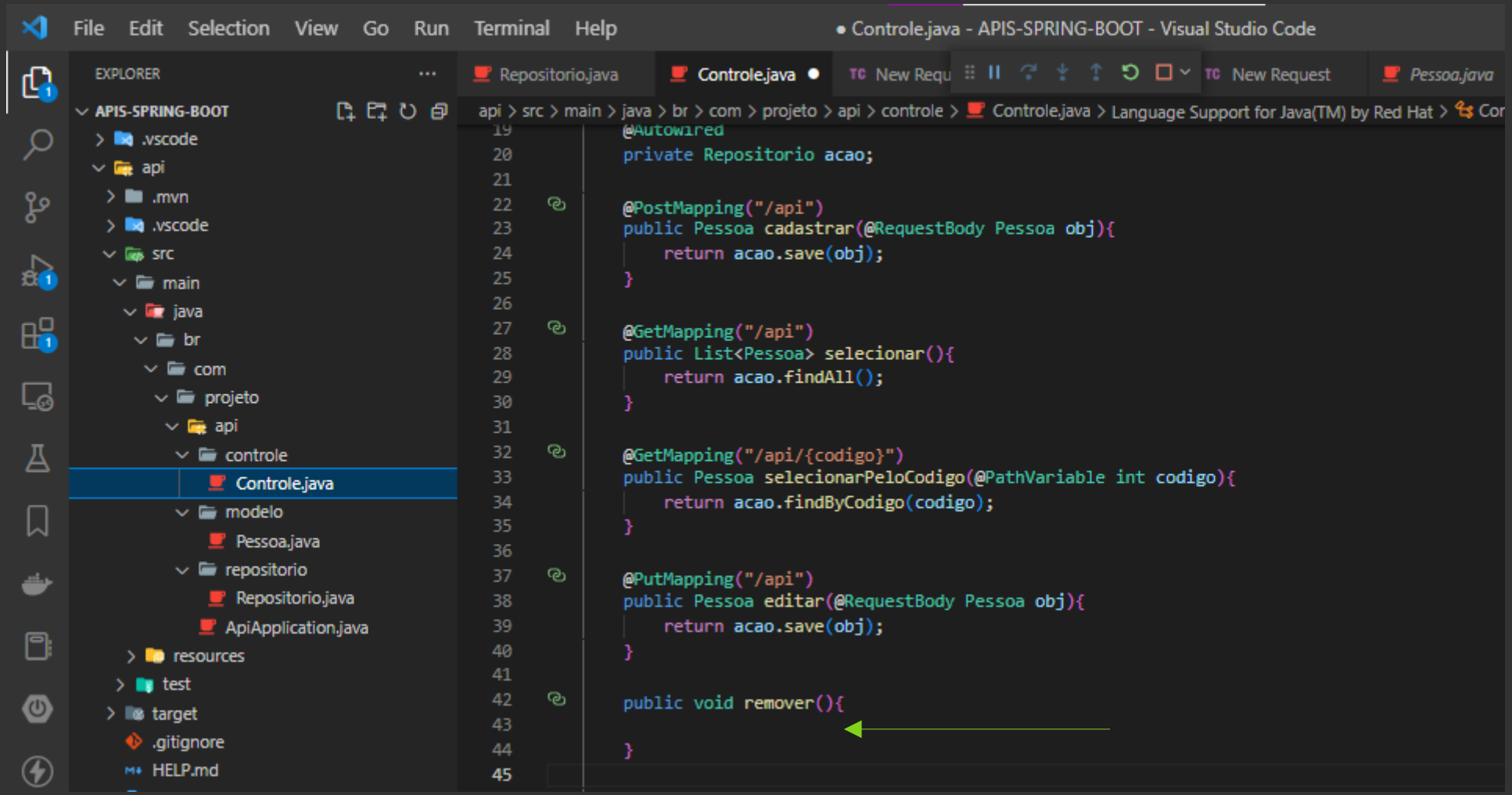


Como cristiano tem um code que já existe ele sofre uma atualização por akilles é subistituido

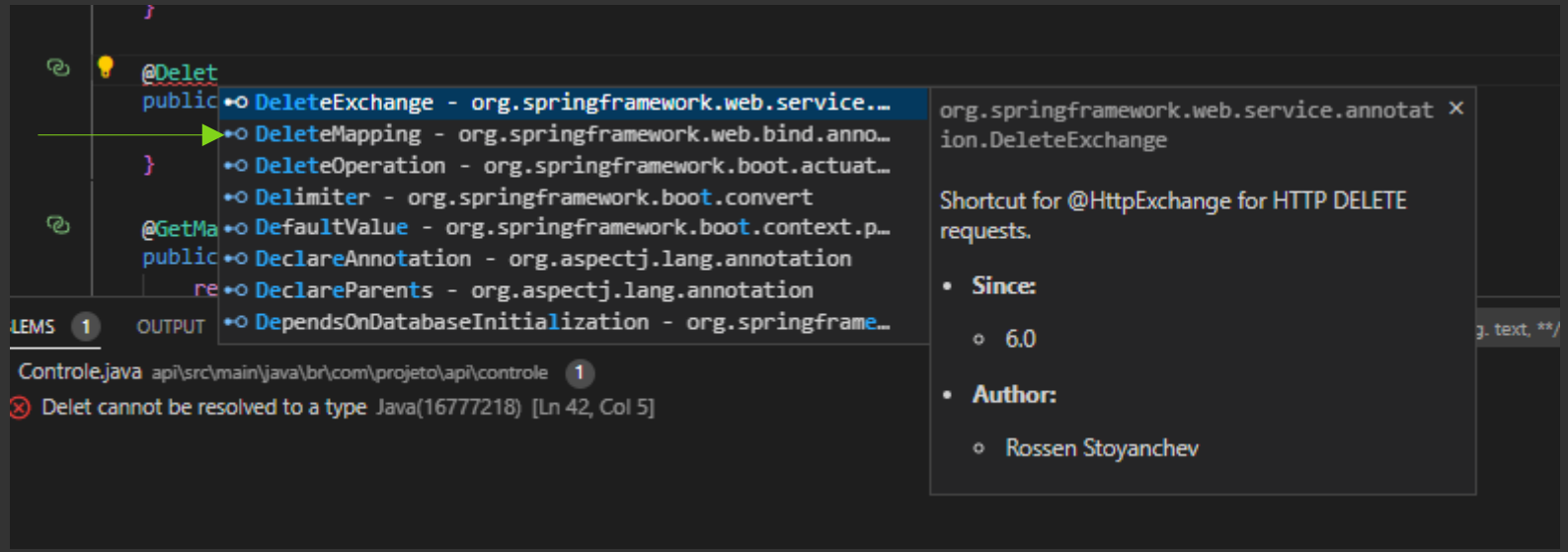
Temos os dados alterados se ele não existisse seria criado

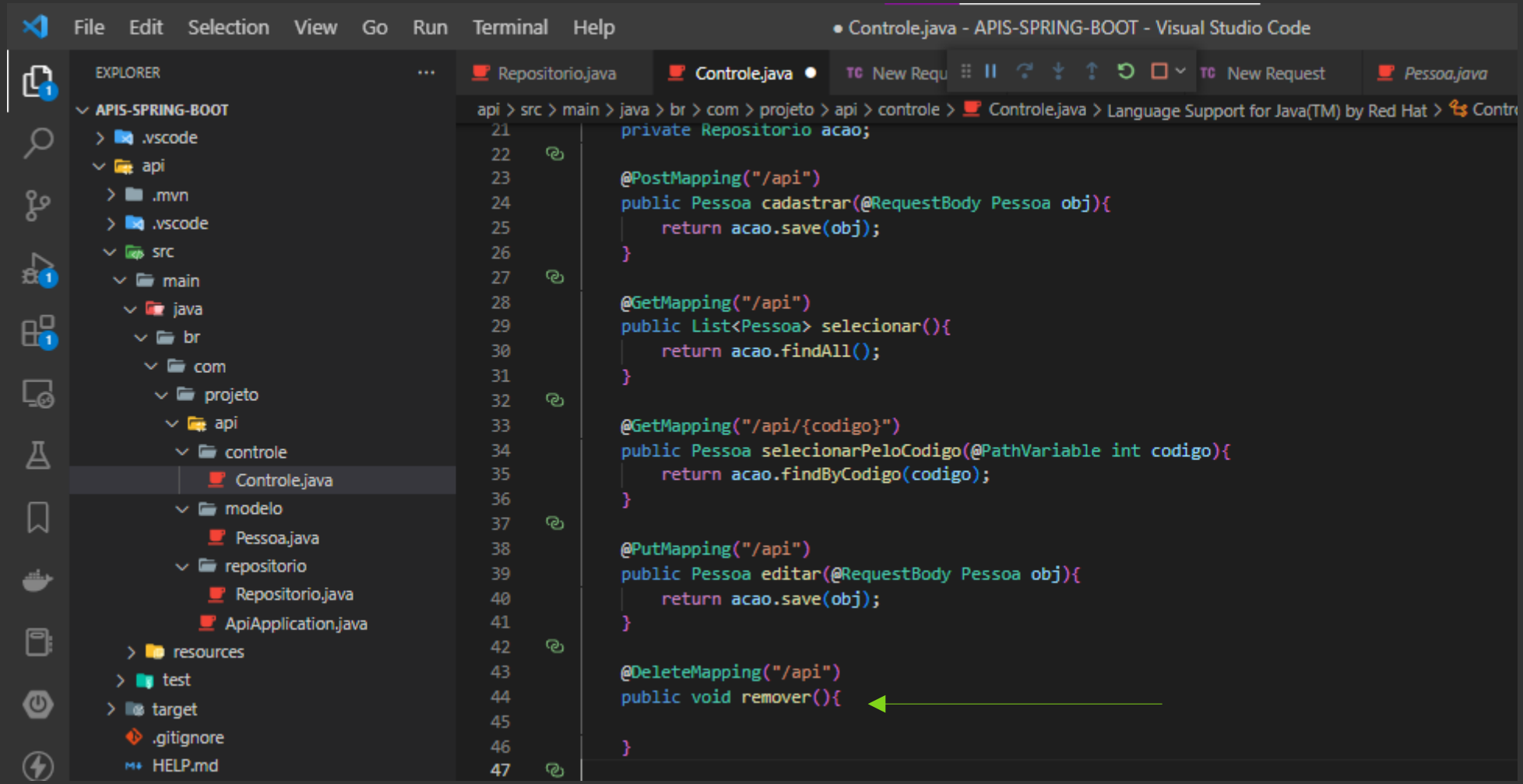


#20
Removendo os dados com delete equivalente ao sql delete



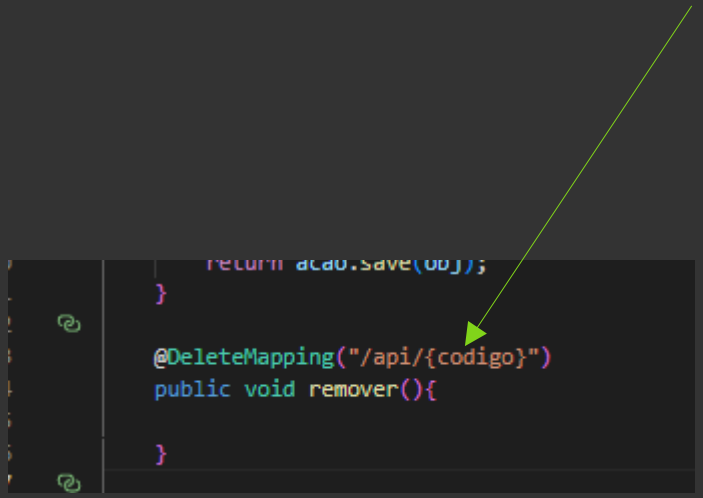
Criamos um metodo remover(){}

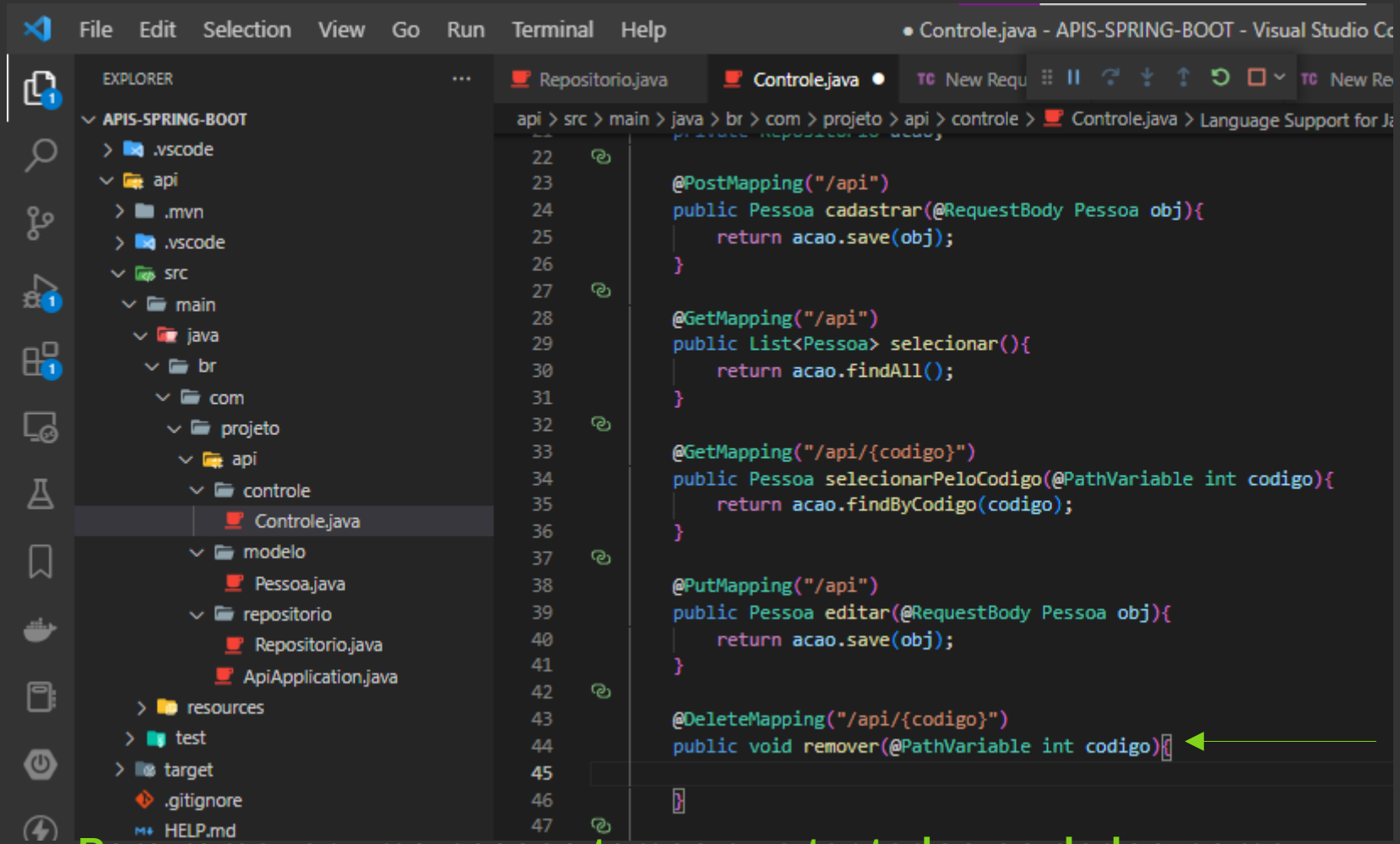

@Delet
public
}
@GetMa
public
re
DeleteExchange - org.springframework.web.service...
DeleteMapping - org.springframework.web.bind.anno...
DeleteOperation - org.springframework.boot.actuat...
Delimiter - org.springframework.boot.convert
DefaultValue - org.springframework.boot.context.p...
DeclareAnnotation - org.aspectj.lang.annotation
DeclareParents - org.aspectj.lang.annotation
DependsOnDatabaseInitialization - org.springframe...
org.springframework.web.service.annotation.DeleteExchange
Shortcut for @HttpExchange for HTTP DELETE requests.
Since:
6.0
Author:
Rossen Stoyanchev
LEMS 1
OUTPUT
Controle.java api\src\main\java\br\com\projeto\api\controle 1
Delet cannot be resolved to a type Java(16777218) [Ln 42, Col 5]



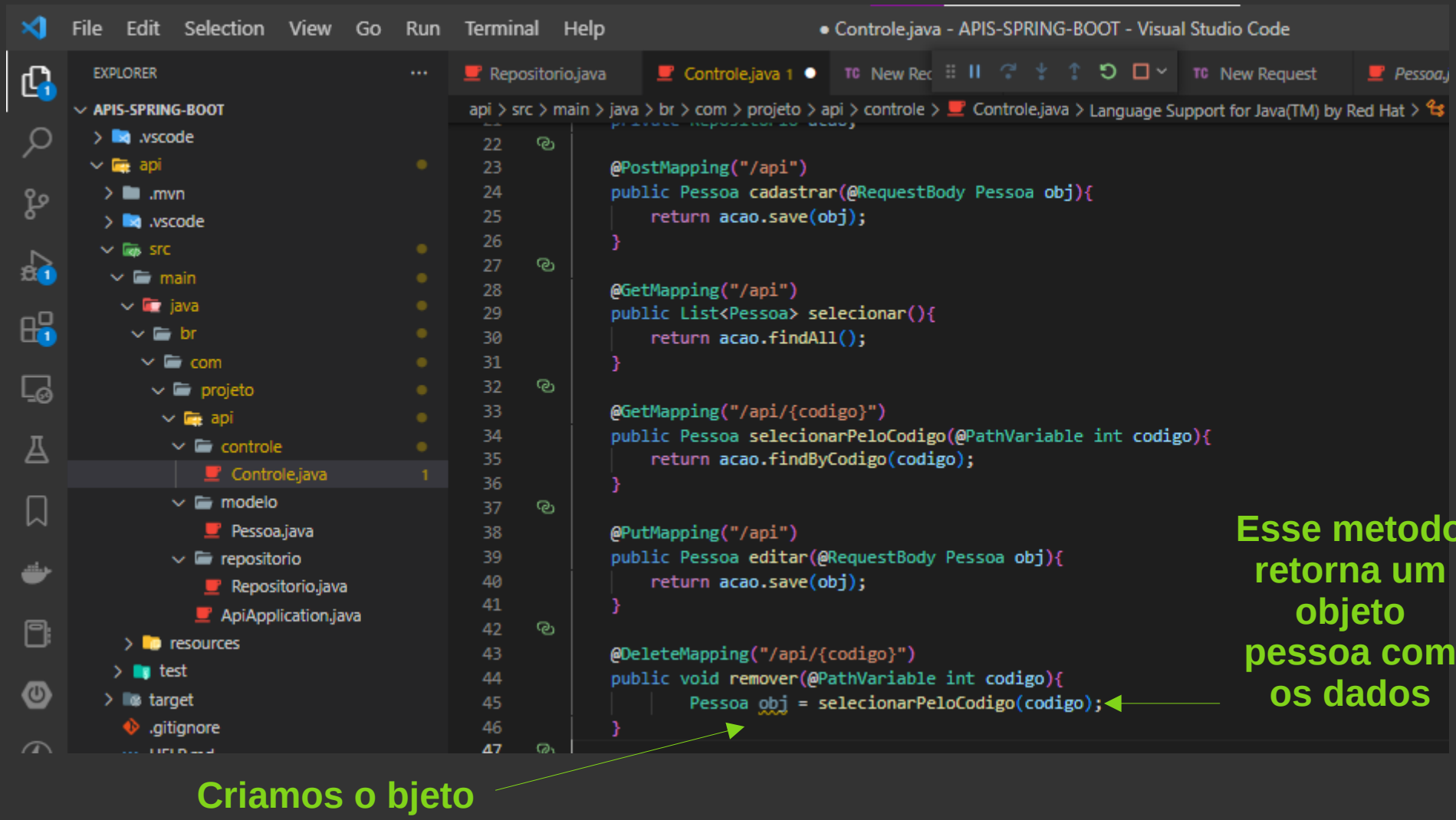
Adicionamos a anotation e criamos a rota

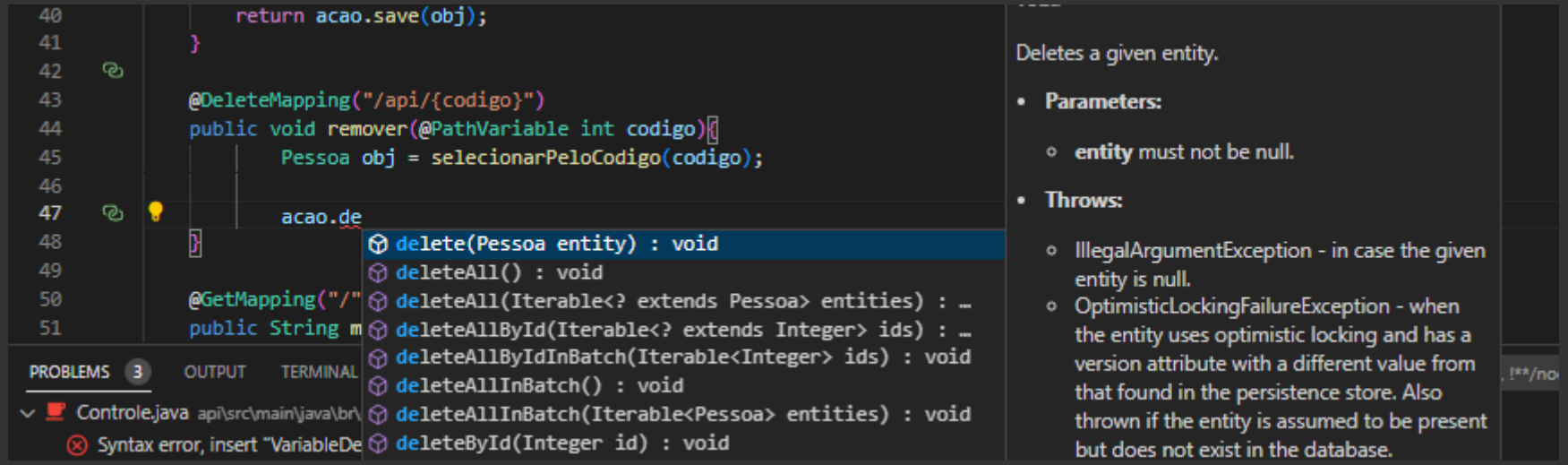
Ultilizamos esse parametro pois temos de saber quem será removido

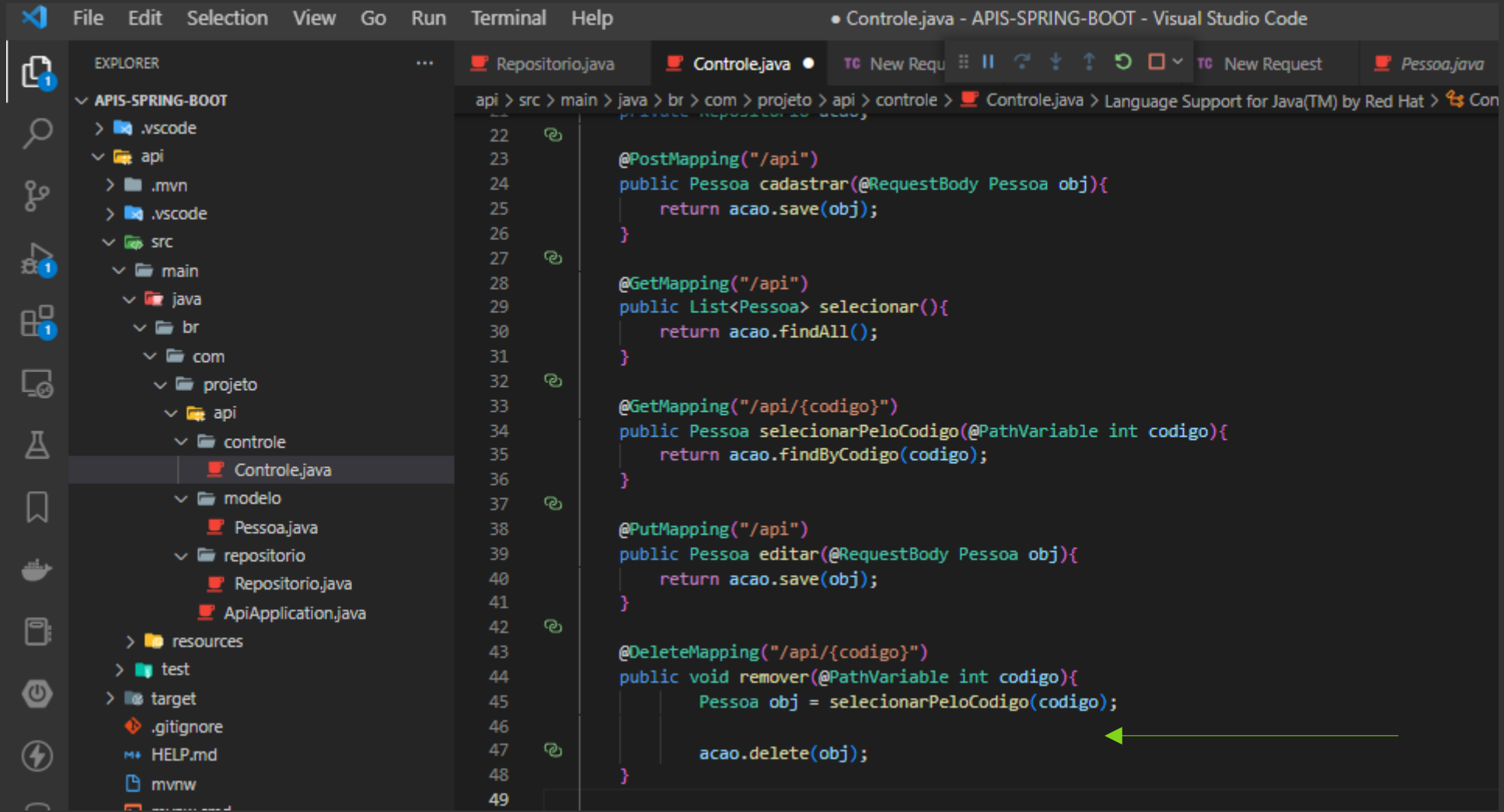




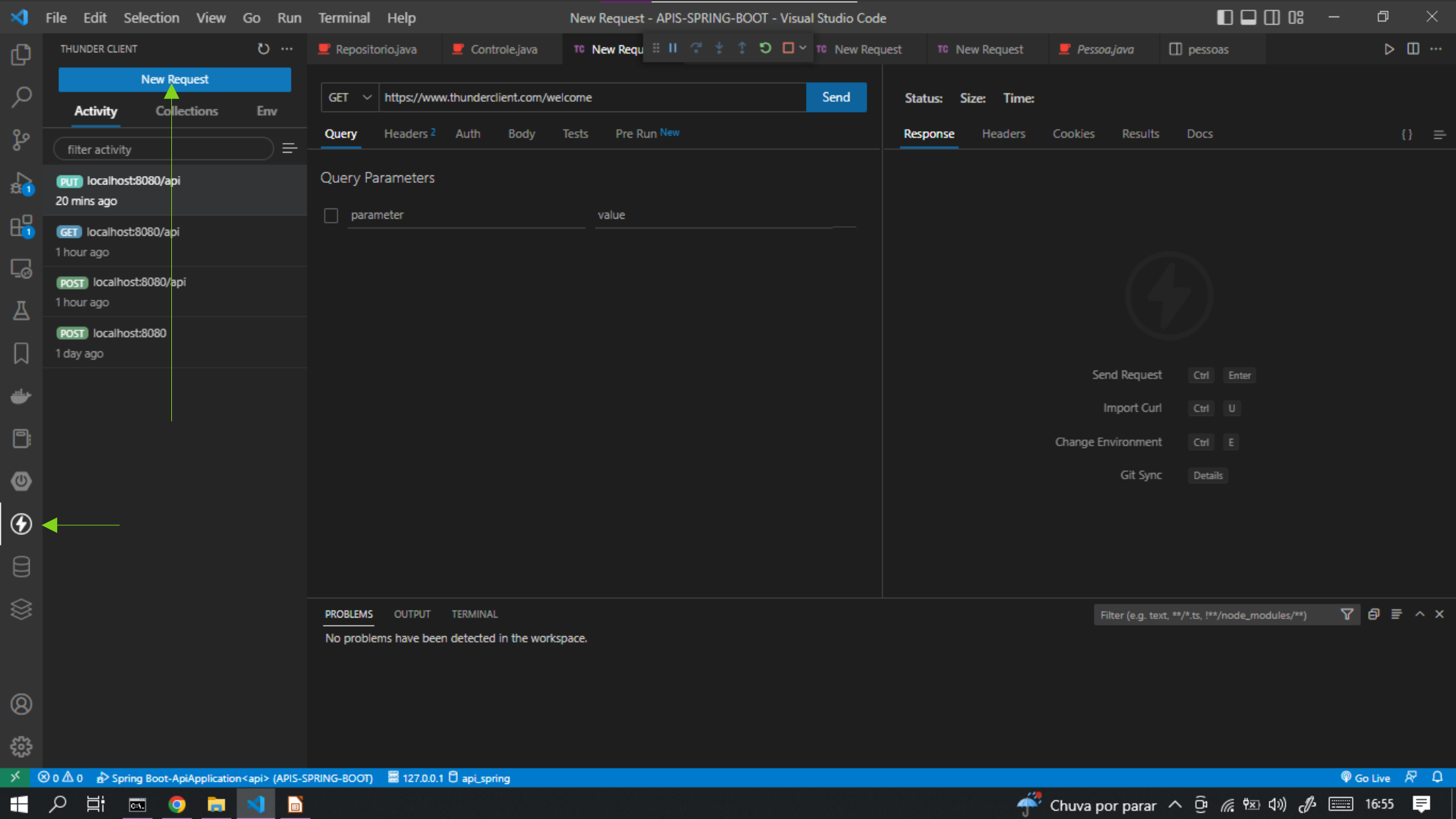
Para remover uma pessoa temos que ter todos os dados nome idade e codigo

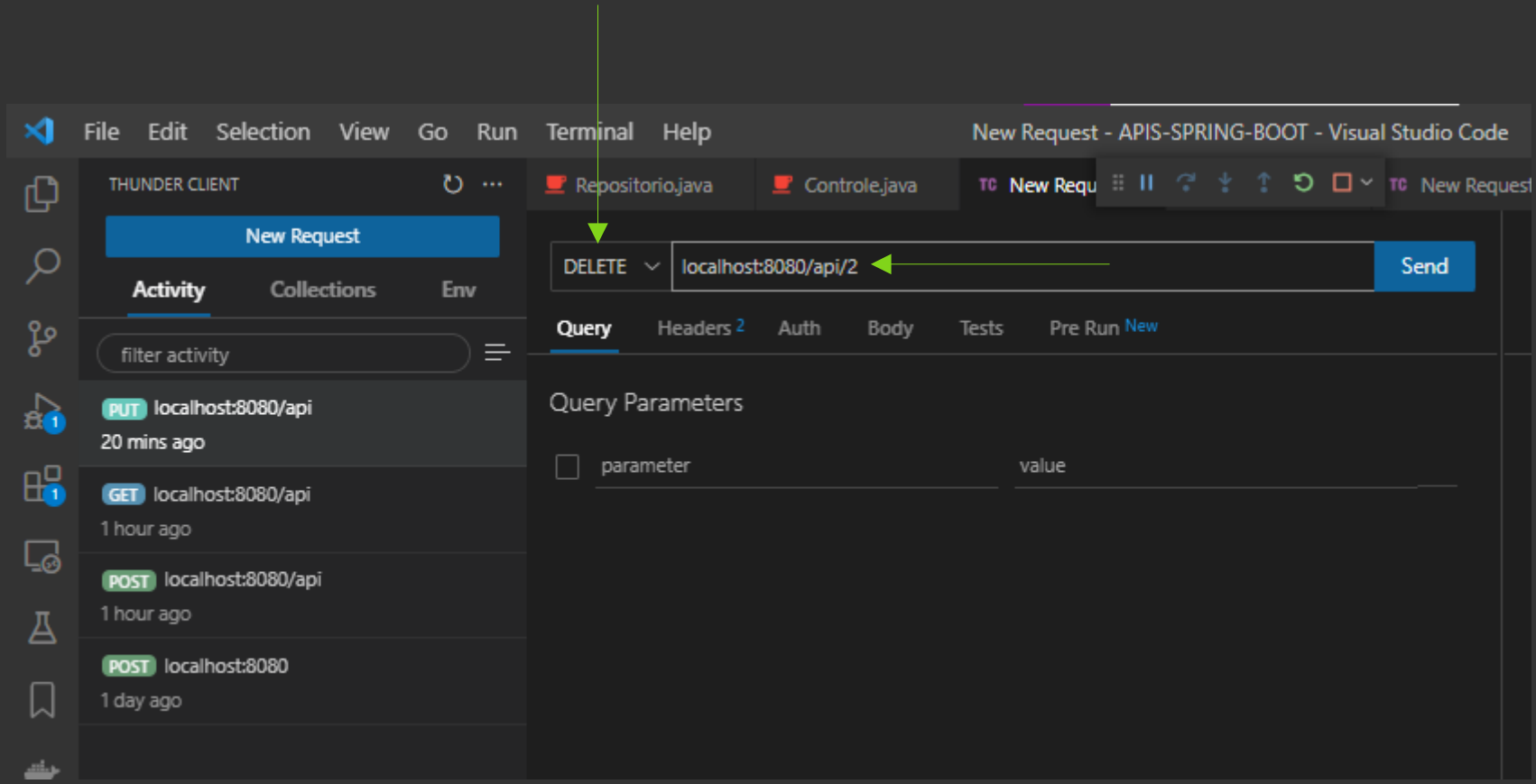

File Edit Selection View Go Run Terminal Help
• Controle.java - APIS-SPRING-BOOT - Visual Studio Code
EXPLORER
APIS-SPRING-BOOT
.vscode
api
.mvn
.vscode
src
main
java
br
com
projeto
api
controle
Controle.java
modelo
Pessoa.java
repositorio
Repositorio.java
ApiApplication.java
resources
test
target
.gitignore
Repositorio.java
Controle.java 1
New Request
api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Java(TM) by Red Hat
@PostMapping("/api")
public Pessoa cadastrar(@RequestBody Pessoa obj){
return acao.save(obj);
}
@GetMapping("/api")
public List<Pessoa> selecionar(){
return acao.findAll();
}
@GetMapping("/api/{codigo}")
public Pessoa selecionarPeloCodigo(@PathVariable int codigo){
return acao.findByCodigo(codigo);
}
@PutMapping("/api")
public Pessoa editar(@RequestBody Pessoa obj){
return acao.save(obj);
}
@DeleteMapping("/api/{codigo}")
public void remover(@PathVariable int codigo){
Pessoa obj = selecionarPeloCodigo(codigo);
}
Esse metodo retorna um objeto pessoa com os dados
Criamos o bjeto

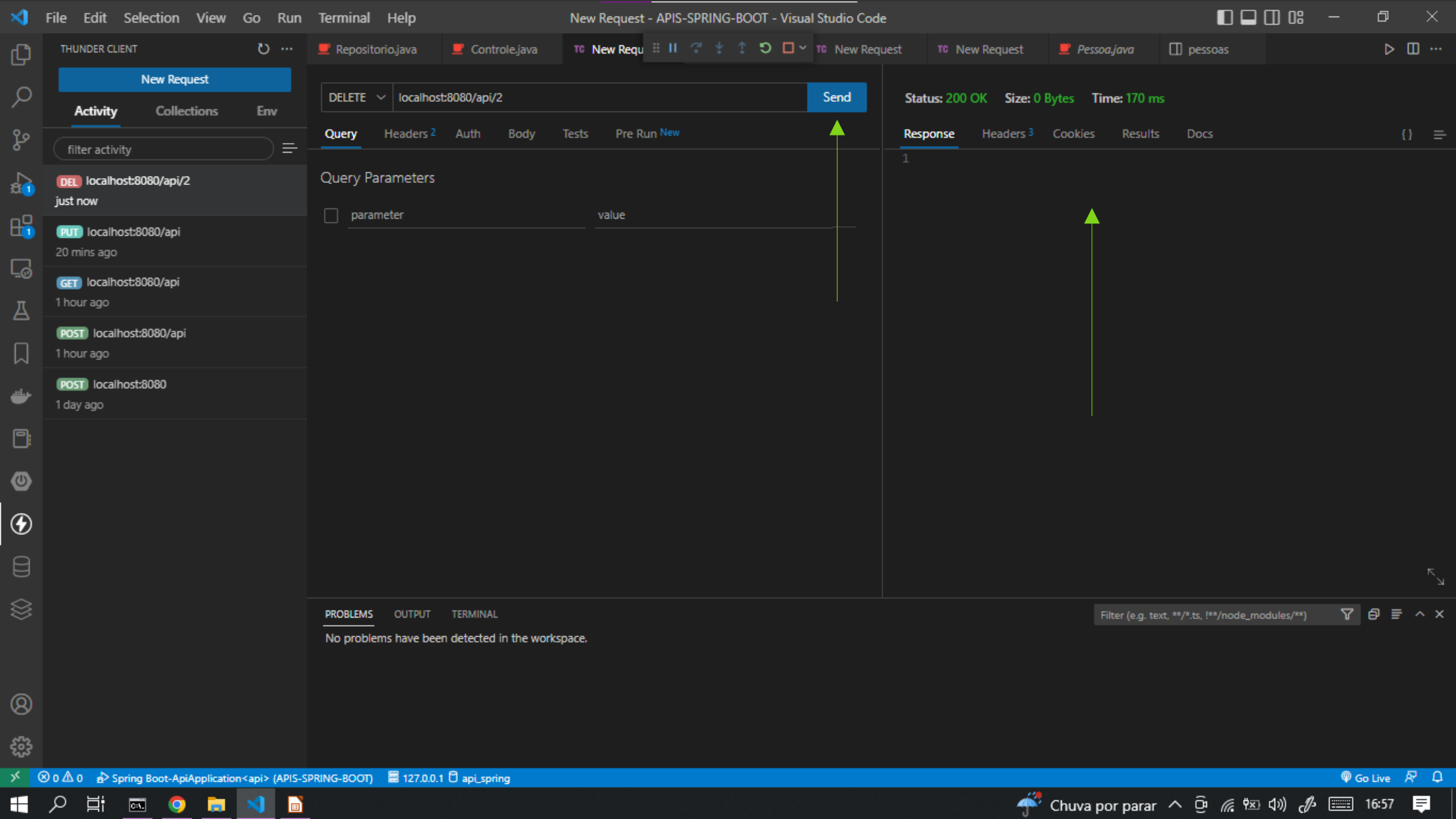

40 return acao.save(obj);
41 }
42
43 @DeleteMapping("/api/{codigo}")
44 public void remover(@PathVariable int codigo){
45 Pessoa obj = selecionarPeloCodigo(codigo);
46
47 acao.de
48 }
49
50 @GetMapping("/"
51 public String m
delete(Pessoa entity) : void
deleteAll() : void
deleteAll(Iterable<? extends Pessoa> entities) : …
deleteAllById(Iterable<? extends Integer> ids) : …
deleteAllByIdInBatch(Iterable<Integer> ids) : void
deleteAllInBatch() : void
deleteAllInBatch(Iterable<Pessoa> entities) : void
deleteById(Integer id) : void
PROBLEMS 3
OUTPUT
TERMINAL
Controle.java api\src\main\java\br\
Syntax error, insert "VariableDe
Deletes a given entity.
Parameters:
entity must not be null.
Throws:
IllegalArgumentException - in case the given entity is null.
OptimisticLockingFailureException - when the entity uses optimistic locking and has a version attribute with a different value from that found in the persistence store. Also thrown if the entity is assumed to be present but does not exist in the database.


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
modelo
Pessoa.java
repositorio
Repositorio.java
ApiApplication.java
resources
test
target
.gitignore
HELP.md
mvnw
Repositorio.java
Controle.java
New Request
Pessoa.java
api > src > main > java > br > com > projeto > api > controle > Controle.java > Language Support for Java(TM) by Red Hat
@PostMapping("/api")
public Pessoa cadastrar(@RequestBody Pessoa obj){
return acao.save(obj);
}
@GetMapping("/api")
public List<Pessoa> selecionar(){
return acao.findAll();
}
@GetMapping("/api/{codigo}")
public Pessoa selecionarPeloCodigo(@PathVariable int codigo){
return acao.findByCodigo(codigo);
}
@PutMapping("/api")
public Pessoa editar(@RequestBody Pessoa obj){
return acao.save(obj);
}
@DeleteMapping("/api/{codigo}")
public void remover(@PathVariable int codigo){
Pessoa obj = selecionarPeloCodigo(codigo);
acao.delete(obj);
}

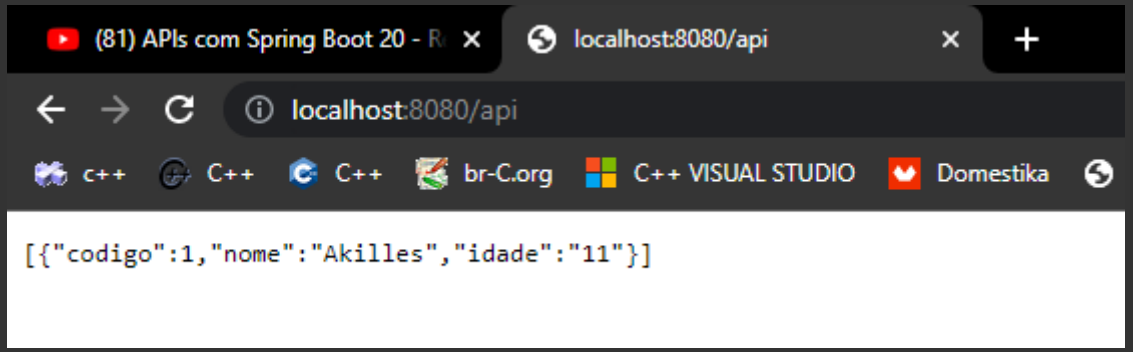
Salve e va no thunder client e faça uma new request

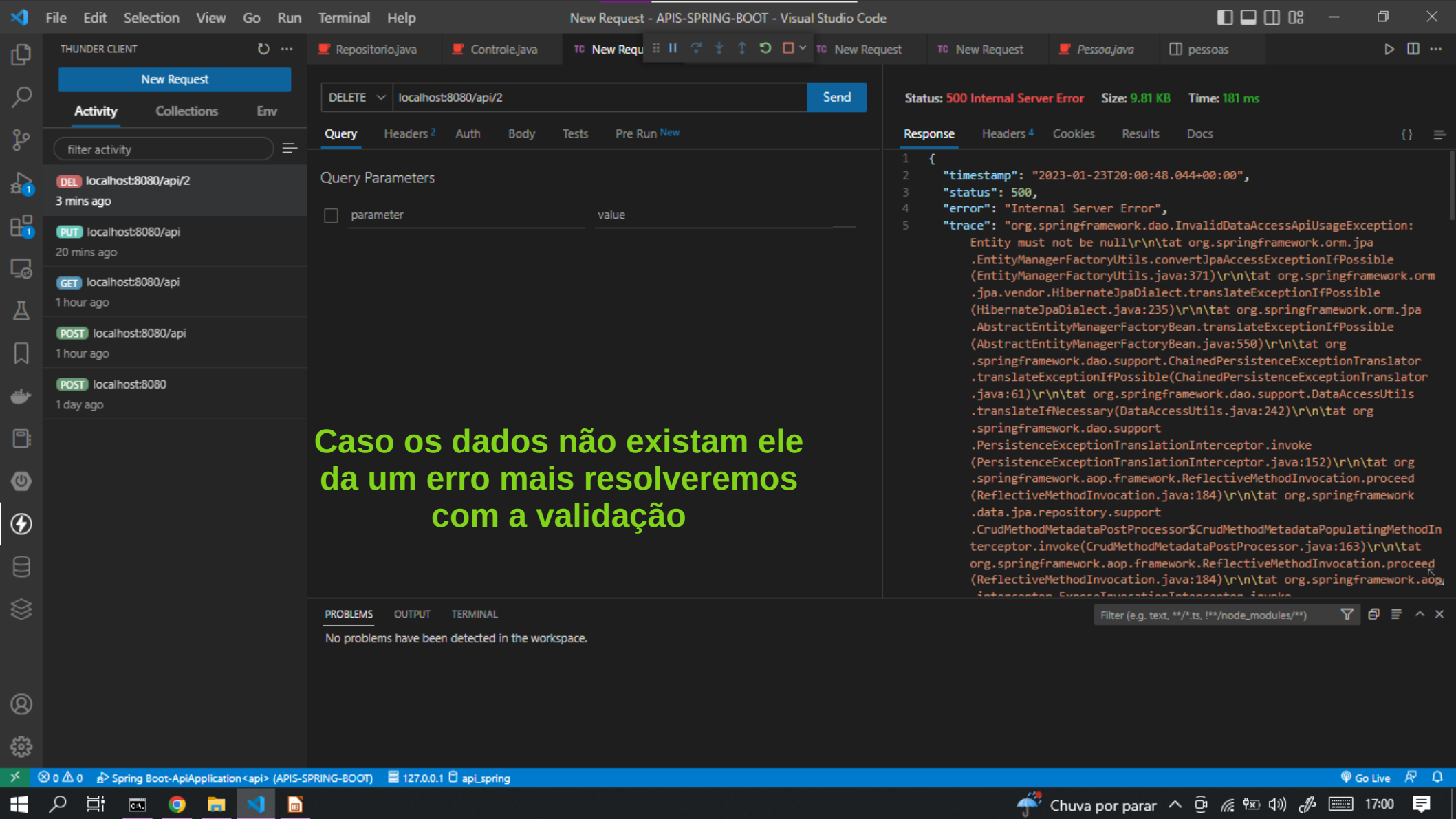

File Edit Selection View Go Run Terminal Help
New Request - APIS-SPRING-BOOT - Visual Studio Code
THUNDER CLIENT
New Request
Activity
Collections
Env
filter activity
PUT localhost:8080/api
20 mins ago
GET localhost:8080/api
1 hour ago
POST localhost:8080/api
1 hour ago
POST localhost:8080
1 day ago
Repositorio.java
Controle.java
New Request
New Request
Pessoa.java
pessoas
GET
https://www.thunderclient.com/welcome
Send
Query
Headers 2
Auth
Body
Tests
Pre Run New
Query Parameters
parameter
value
Status:
Size:
Time:
Response
Headers
Cookies
Results
Docs
Send Request Ctrl Enter
Import Curl Ctrl U
Change Environment Ctrl E
Git Sync Details
PROBLEMS
OUTPUT
TERMINAL
No problems have been detected in the workspace.
Spring Boot-ApiApplication<api> (APIS-SPRING-BOOT)
127.0.0.1
api_spring
Go Live
Chuva por parar
16:55


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
PUT localhost:8080/api
20 mins ago
GET localhost:8080/api
1 hour ago
POST localhost:8080/api
1 hour ago
POST localhost:8080
1 day ago
Repositorio.java
Controle.java
New Requ
New Request
DELETE
localhost:8080/api/2
Send
Query
Headers 2
Auth
Body
Tests
Pre Run New
Query Parameters
parameter
value


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
DEL localhost:8080/api/2
just now
PUT localhost:8080/api
20 mins ago
GET localhost:8080/api
1 hour ago
POST localhost:8080/api
1 hour ago
POST localhost:8080
1 day ago
Repositorio.java
Controle.java
New Request
New Request
New Request
Pessoa.java
pessoas
DELETE
localhost:8080/api/2
Send
Query
Headers 2
Auth
Body
Tests
Pre Run New
Query Parameters
parameter
value
Status: 200 OK
Size: 0 Bytes
Time: 170 ms
Response
Headers 3
Cookies
Results
Docs
1
PROBLEMS
OUTPUT
TERMINAL
Filter (e.g. text, **/*.ts, !**/node_modules/**)
No problems have been detected in the workspace.
Spring Boot-ApiApplication<api> (APIS-SPRING-BOOT)
127.0.0.1
api_spring
Go Live
Chuva por parar
16:57

Atualize o navegador e veja que um registro foi deletado




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
DEL localhost:8080/api/2
3 mins ago
PUT localhost:8080/api
20 mins ago
GET localhost:8080/api
1 hour ago
POST localhost:8080/api
1 hour ago
POST localhost:8080
1 day ago
Repositorio.java
Controle.java
New Request
New Request
New Request
Pessoa.java
pessoas
DELETE
localhost:8080/api/2
Send
Query
Headers 2
Auth
Body
Tests
Pre Run New
Query Parameters
parameter
value
Caso os dados não existam ele da um erro mais resolveremos com a validação
Status: 500 Internal Server Error
Size: 9.81 KB
Time: 181 ms
Response
Headers 4
Cookies
Results
Docs
{
"timestamp": "2023-01-23T20:00:48.044+00:00",
"status": 500,
"error": "Internal Server Error",
"trace": "org.springframework.dao.InvalidDataAccessApiUsageException:
Entity must not be null\r\n\tat org.springframework.orm.jpa
.EntityManagerFactoryUtils.convertJpaAccessExceptionIfPossible
(EntityManagerFactoryUtils.java:371)\r\n\tat org.springframework.orm
.jpa.vendor.HibernateJpaDialect.translateExceptionIfPossible
(HibernateJpaDialect.java:235)\r\n\tat org.springframework.orm.jpa
.AbstractEntityManagerFactoryBean.translateExceptionIfPossible
(AbstractEntityManagerFactoryBean.java:550)\r\n\tat org
.springframework.dao.support.ChainedPersistenceExceptionTranslator
.translateExceptionIfPossible(ChainedPersistenceExceptionTranslator
.java:61)\r\n\tat org.springframework.dao.support.DataAccessUtils
.translateIfNecessary(DataAccessUtils.java:242)\r\n\tat org
.springframework.dao.support
.PersistenceExceptionTranslationInterceptor.invoke
(PersistenceExceptionTranslationInterceptor.java:152)\r\n\tat org
.springframework.aop.framework.ReflectiveMethodInvocation.proceed
(ReflectiveMethodInvocation.java:184)\r\n\tat org.springframework
.data.jpa.repository.support
.CrudMethodMetadataPostProcessor$CrudMethodMetadataPopulatingMethodIn
terceptor.invoke(CrudMethodMetadataPostProcessor.java:163)\r\n\tat
org.springframework.aop.framework.ReflectiveMethodInvocation.proceed
(ReflectiveMethodInvocation.java:184)\r\n\tat org.springframework.aop
PROBLEMS
OUTPUT
TERMINAL
Filter (e.g. text, **/*.ts, !**/node_modules/**)
No problems have been detected in the workspace.
Spring Boot-ApiApplication<api> (APIS-SPRING-BOOT)
127.0.0.1
api_spring
Go Live
Chuva por parar
17:00