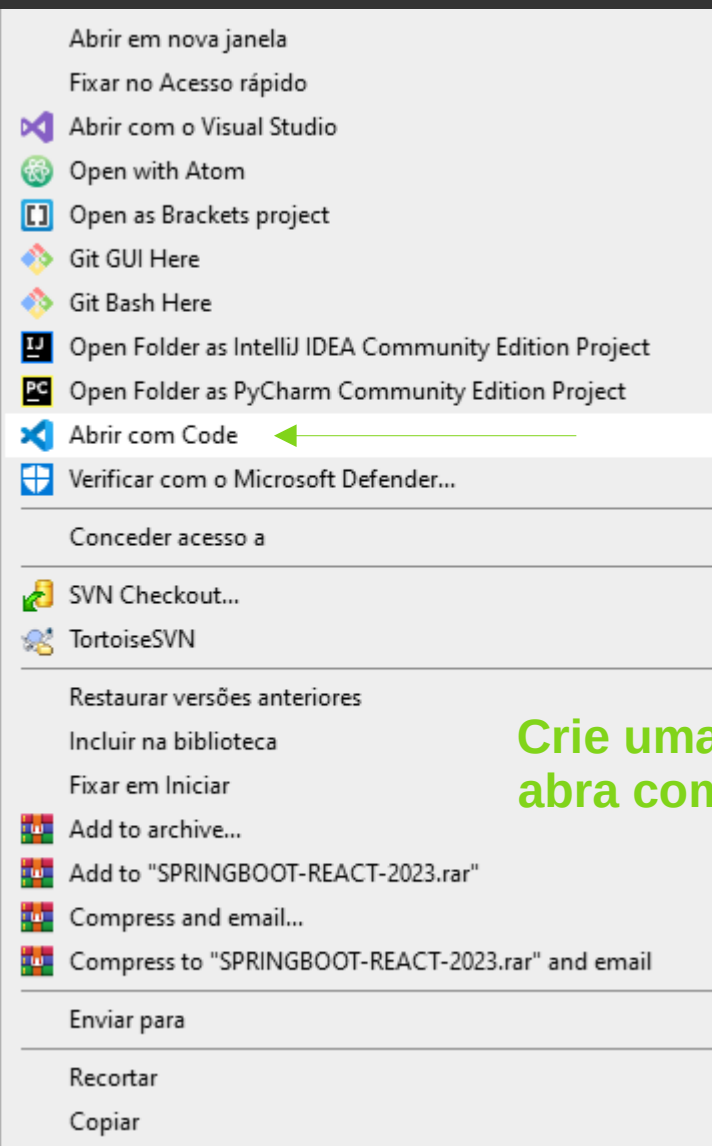
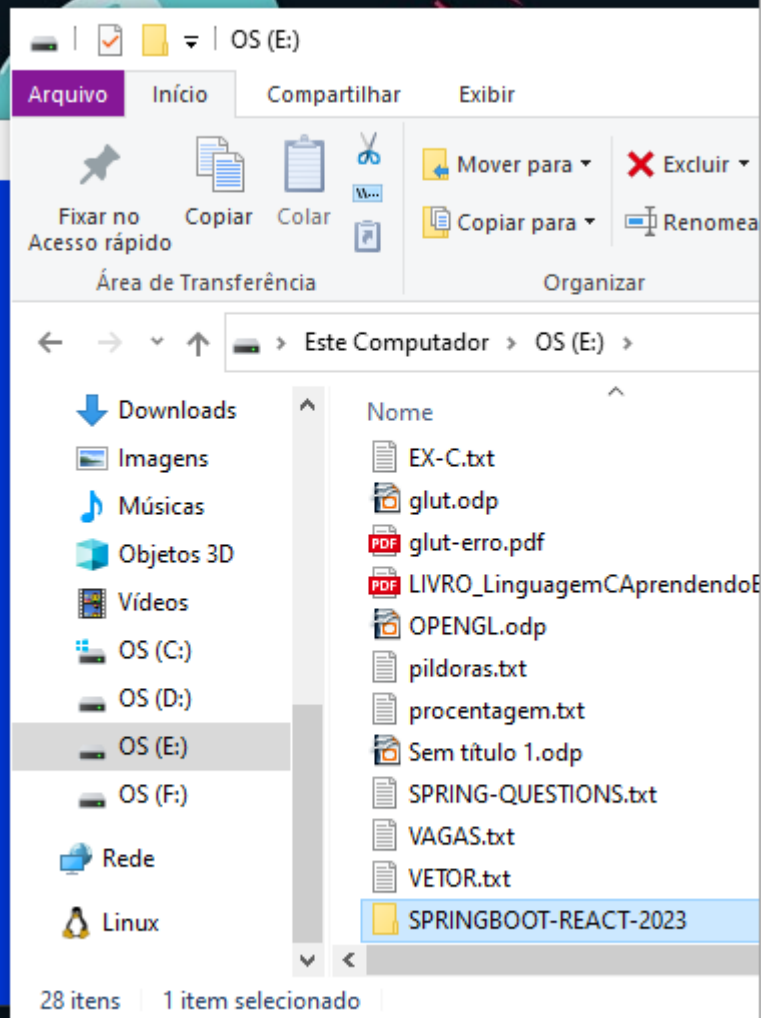
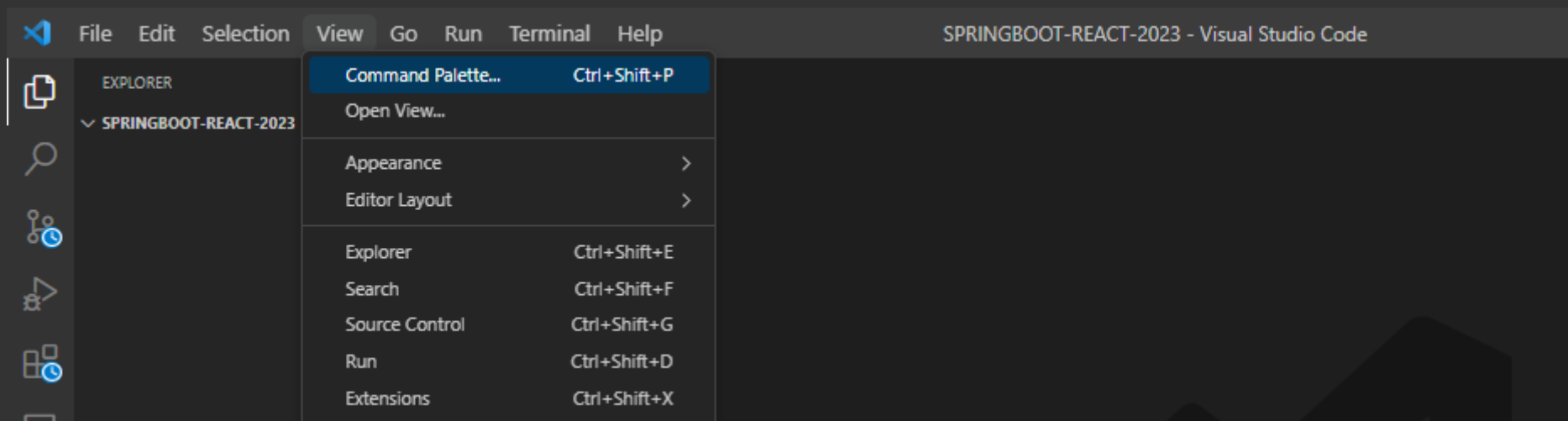



SPRINGBOOT E REACT
2023
NANO



Crie uma pasta e abra com o code



>spring

Spring Initializr: Create a Maven Project...recently used **Spring** Boot Dashboard: Debug ...

other commands

Spring Boot Dashboard: Run ...**Spring** Boot Dashboard: Show All Beans**Spring** Boot Dashboard: Show All Endpoints**Spring** Boot Dashboard: Show Defined Beans**Spring** Boot Dashboard: Show Defined Endpoints**Spring** Boot Dashboard: Stop ...**Spring** Boot: Manage Live Spring Boot Process Connections**Spring** Boot: Refactor Spring Boot Project...**Spring** Boot: Reload OpenRewrite Recipes, Code Actions, Problem and Quick Fix Descriptors**Spring** Boot: Upgrade Spring Boot Version...**Spring** Initializr: Add Starters...**Spring** Initializr: Create a Gradle Project...

SPRINGBOOT-REACT-2023 - Visual Studio Code

Spring Initializr: Specify Spring Boot version

Specify Spring Boot version.

3.0.2

3.0.3 (SNAPSHOT)

2.7.9 (SNAPSHOT)

2.7.8

SPRINGBOOT-REACT-2023 - Visual Studio Code



Spring Initializr: Specify project language

Specify project language.

Java

Kotlin

Groovy

SPRINGBOOT-REACT-2023 - Visual Studio Code



Spring Initializr: Input Group Id

br.com.api

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

SPRINGBOOT-REACT-2023 - Visual Studio Code



Spring Initializr: Input Artifact Id

produtos

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

SPRINGBOOT-REACT-2023 - Visual Studio Code



Spring Initializr: Specify packaging type

Specify packaging type.

Jar

War



Spring Initializr: Specify Java version

Specify Java version.

17

19

11

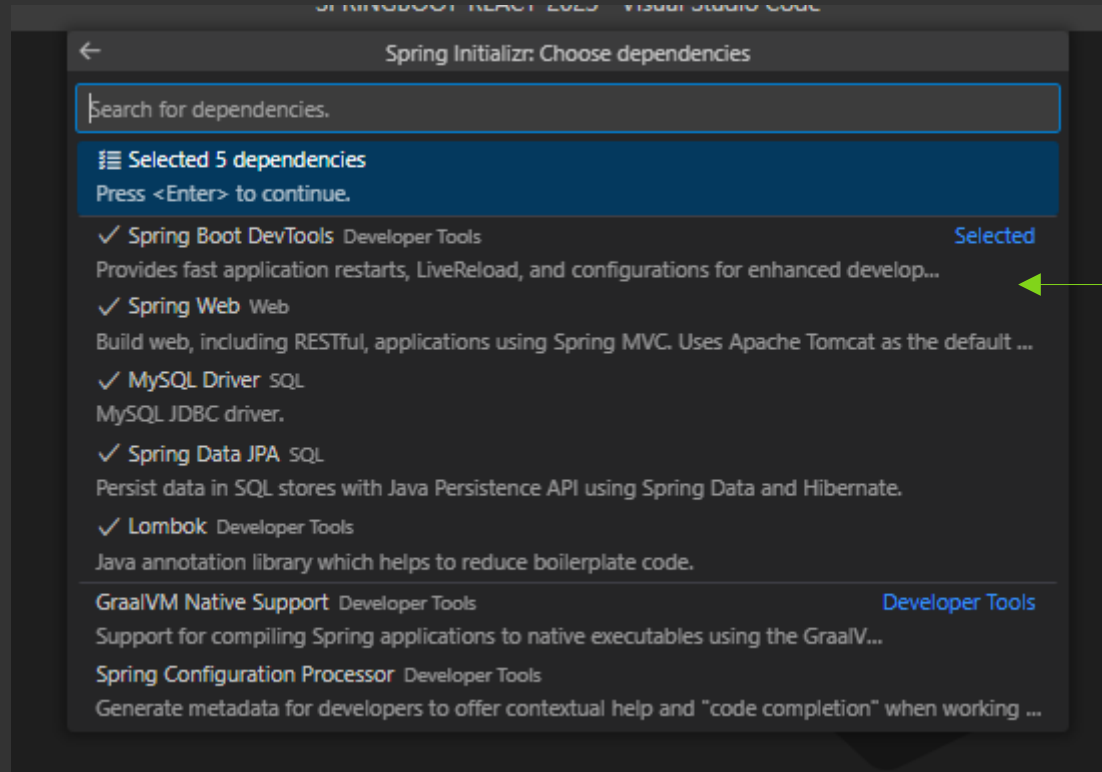
8

C:\WINDOWS\system32\cmd.exe

```
C:\>java -v
Unrecognized option: -v
Error: Could not create the Java Virtual Machine.
Error: A fatal exception has occurred. Program will exit.

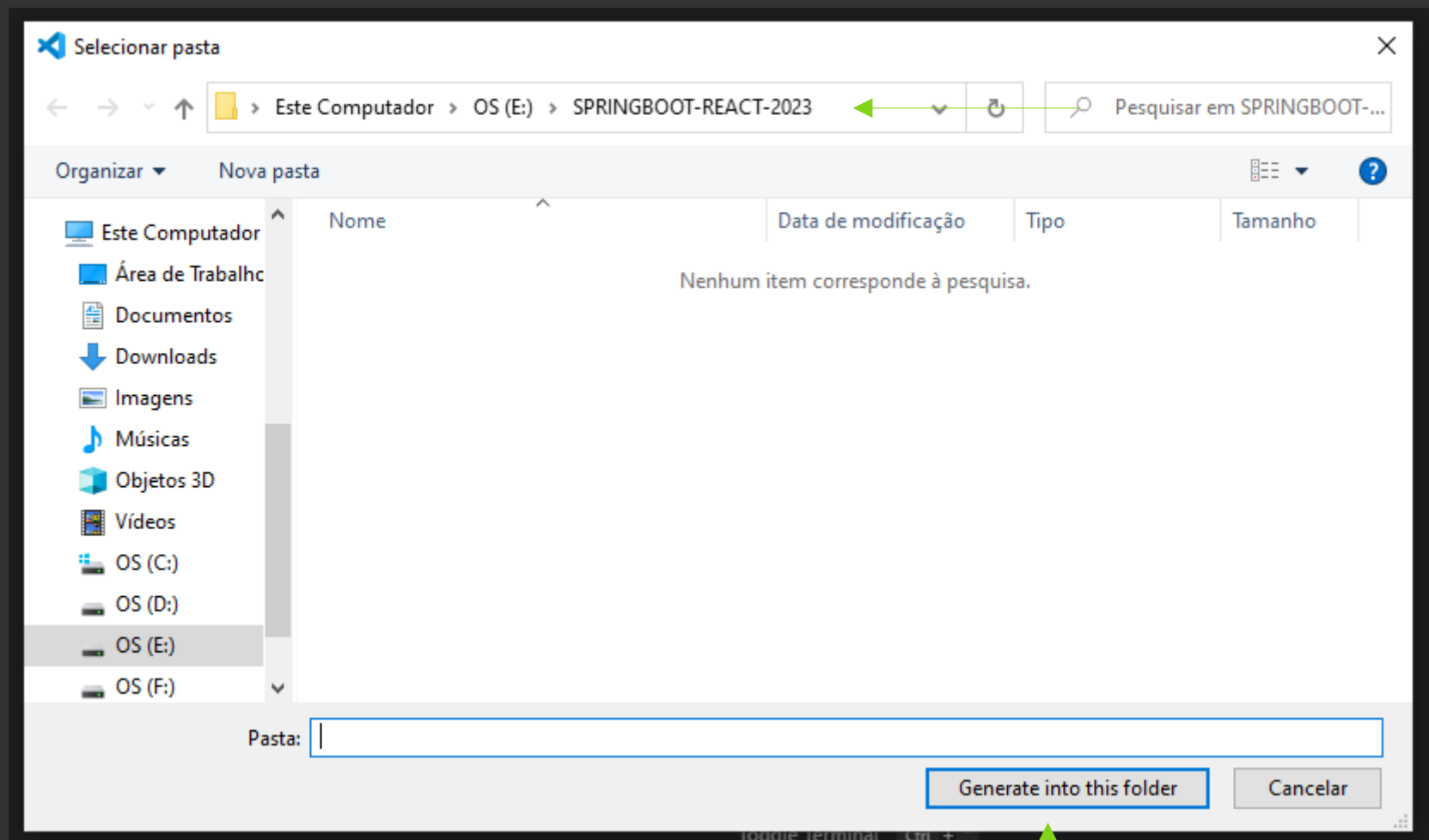
C:\>java -version
java version "17" 2021-09-14 LTS
Java(TM) SE Runtime Environment (build 17+35-LTS-2724)
Java HotSpot(TM) 64-Bit Server VM (build 17+35-LTS-2724, mixed mode, sharing)

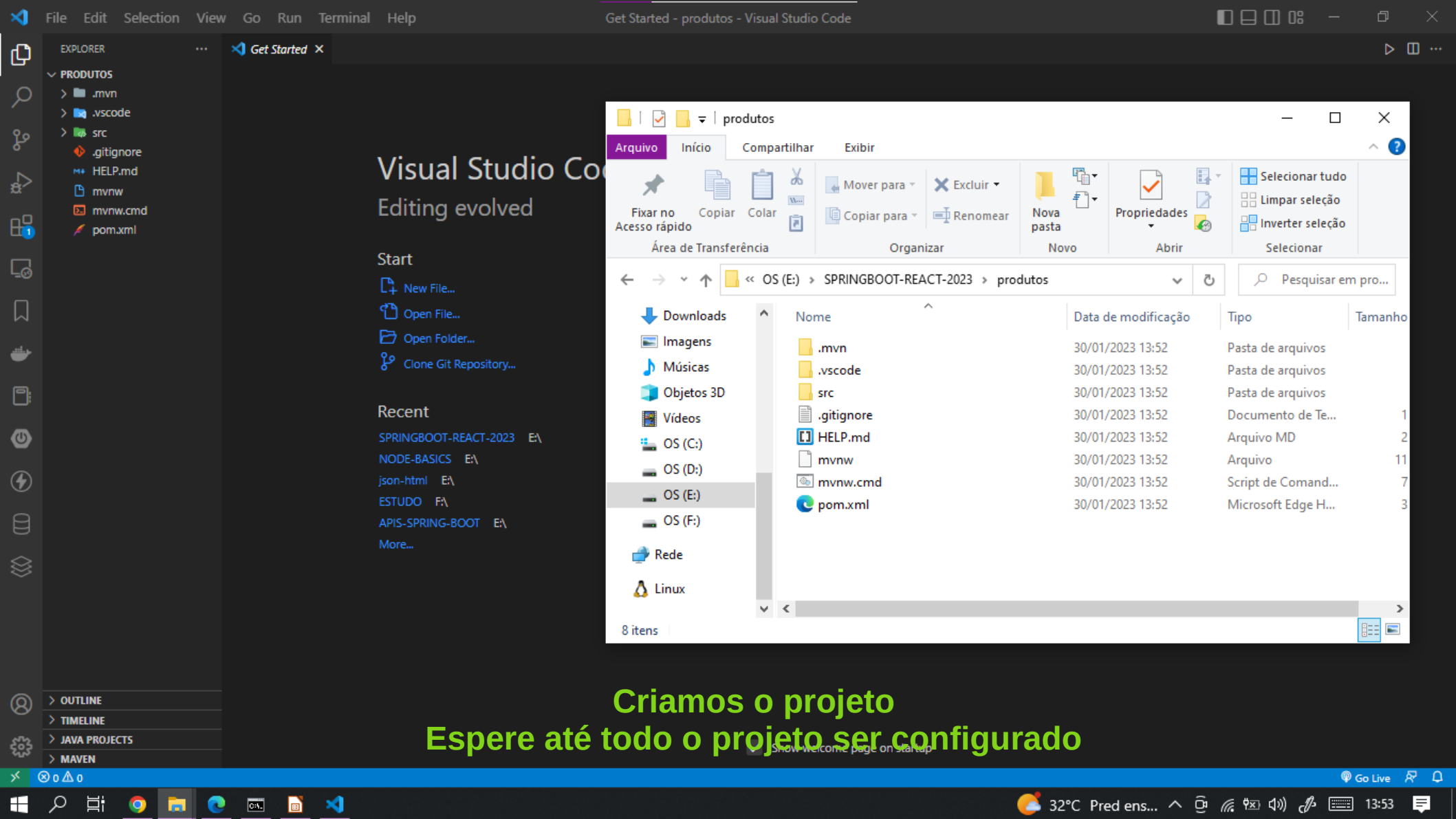
C:\>
```



Adicione essas 5 dependencias e tecle enter

Escolhemos a pasta pra salvar os arquivos





Visual Studio Code
Editing evolved

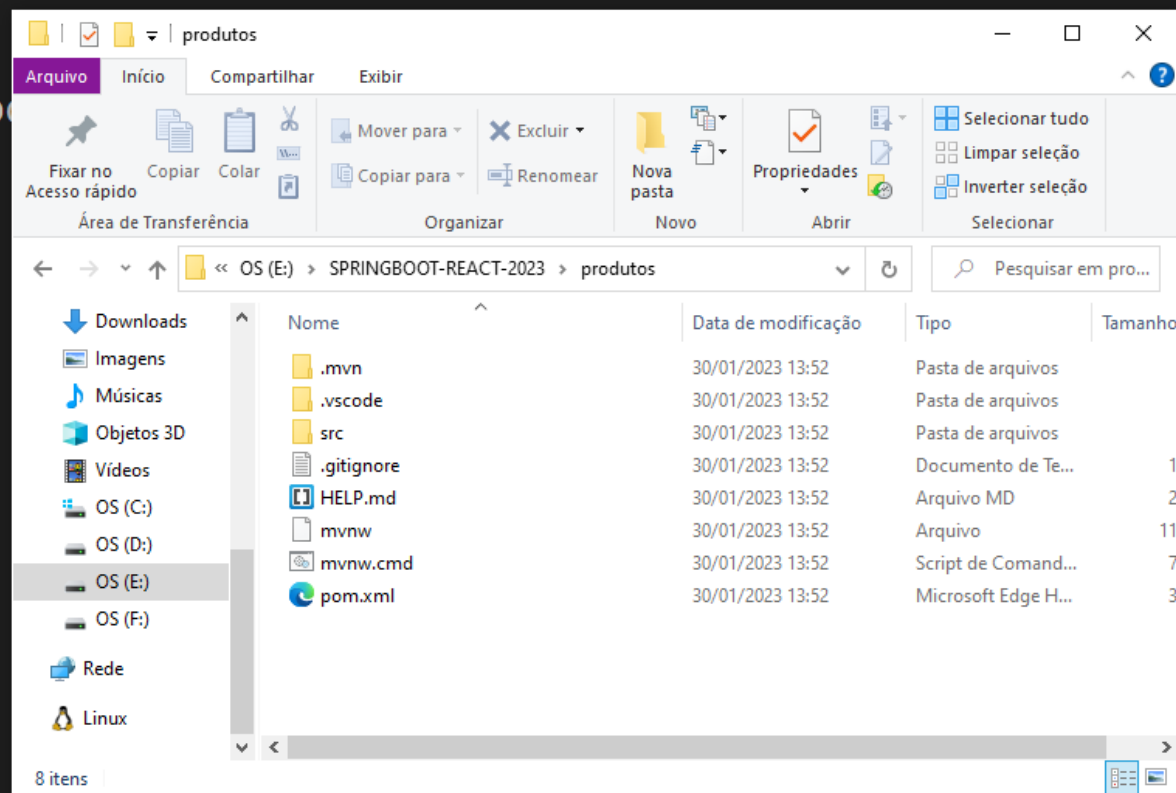
Start

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

Recent

- SPRINGBOOT-REACT-2023 E:\
- NODE-BASICS E:\
- json-html E\
- ESTUDO F\
- APIS-SPRING-BOOT E\
- More...

- OUTLINE
- TIMELINE
- JAVA PROJECTS
- MAVEN



Criamos o projeto
Espere até todo o projeto ser configurado



#3






GERANDO A TABELA



File Edit Selection View Go Run Terminal Help



DATABASE     

>  127.0.0.1@330...    



File Edit Selection View Go Run Terminal Help

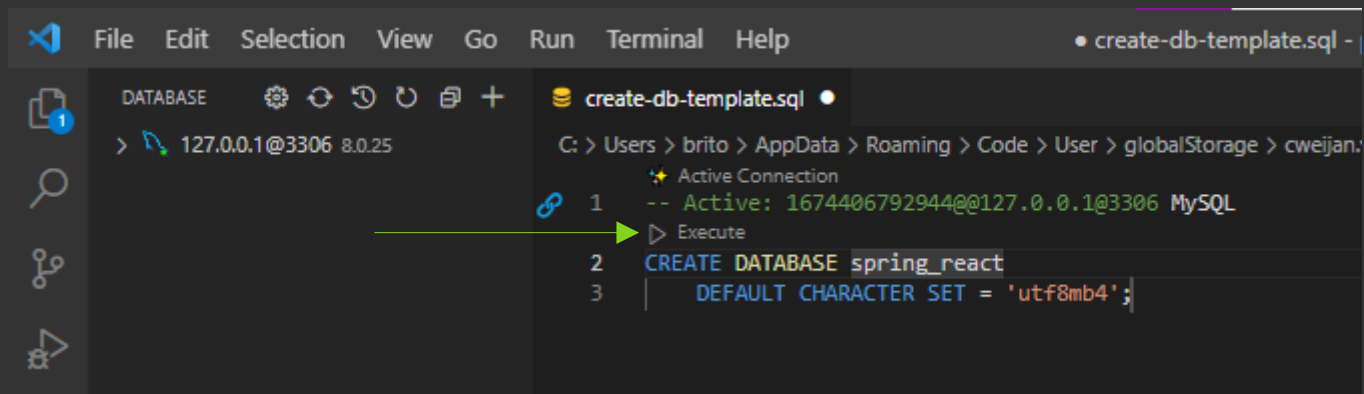
• create-db-template.sql - produtos - Visual Studio Code

DATABASE

> 127.0.0.1@3306 8.0.25

create-db-template.sql •

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



Após dar nome click em execute

DATABASE

- 127.0.0.1@3306 8.0.25
 - api_spring 32k
 - dbagenda
 - sakila
 - spring_react**
 - tables
 - No tables found.
 - views
 - procedures
 - functions
 - world

create-db-template.sql

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

Active Connection
-- Active: 1674406792944@@@127.0.0.1@3306 MySQL
Execute
2 CREATE DATABASE spring_react
3 | DEFAULT CHARACTER SET = 'utf8mb4';
```

Criamos o banco de dados

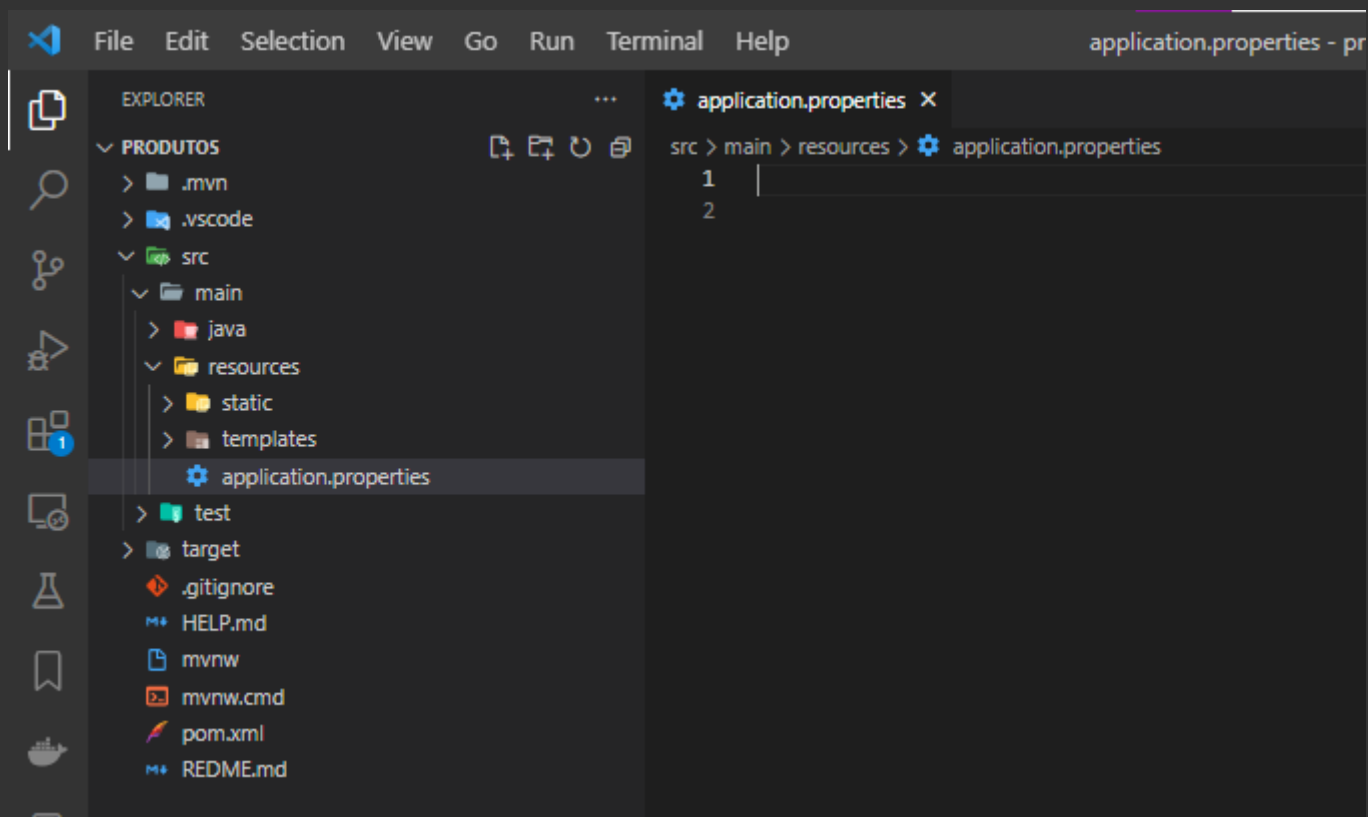
Data

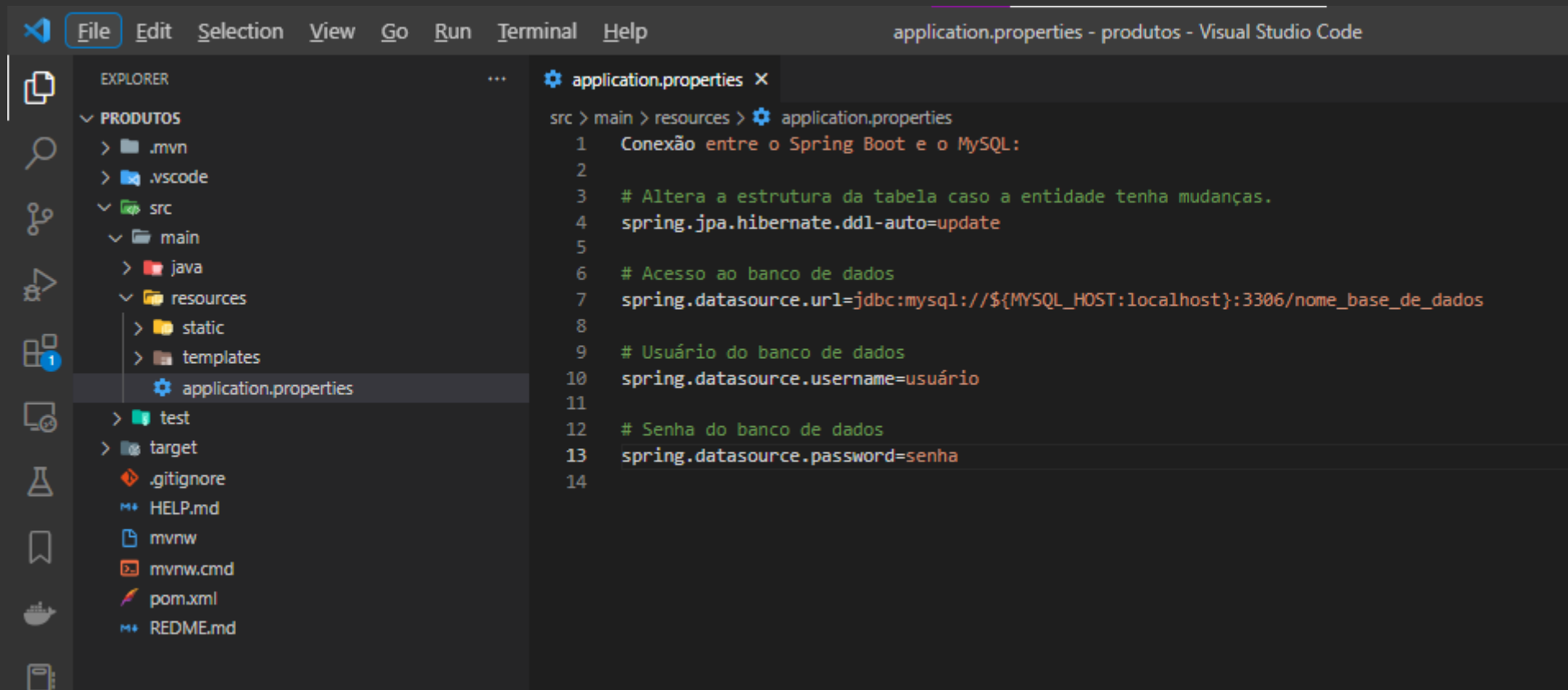
```
CREATE DATABASE spring_react
DEFAULT CHARACTER SET = 'utf8mb4'
```

Free 1 + + - - Cost: 695ms < >

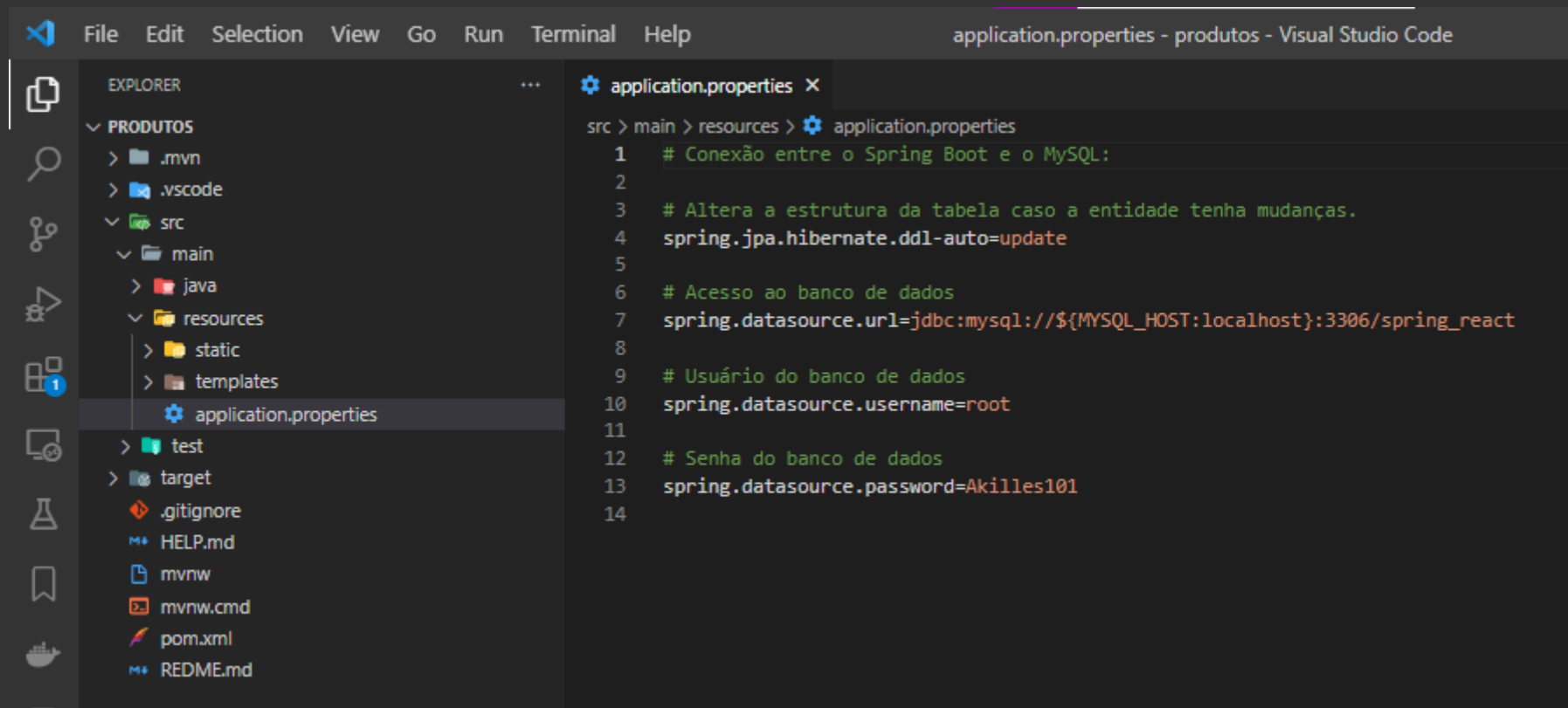
```
CREATE DATABASE spring_react DEFAULT CHARACTER SET = 'utf8mb4'
```

AffectedRows : 1

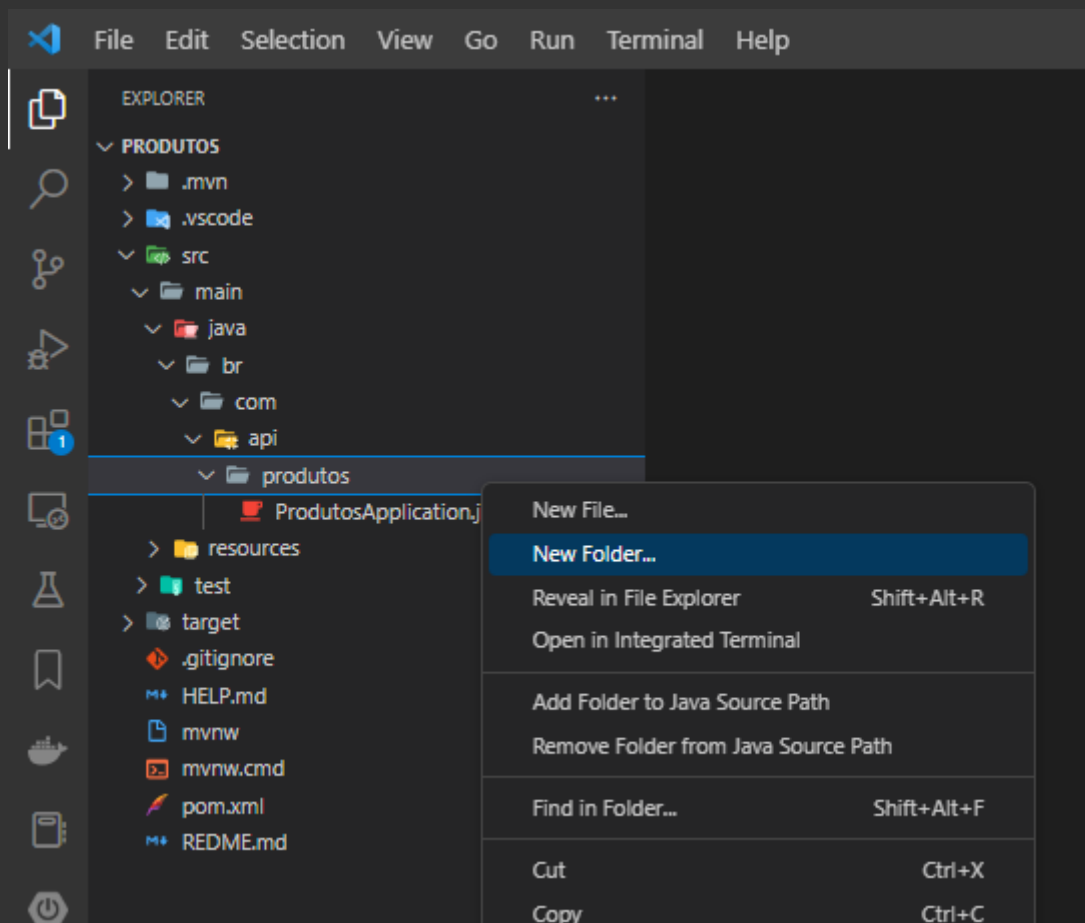


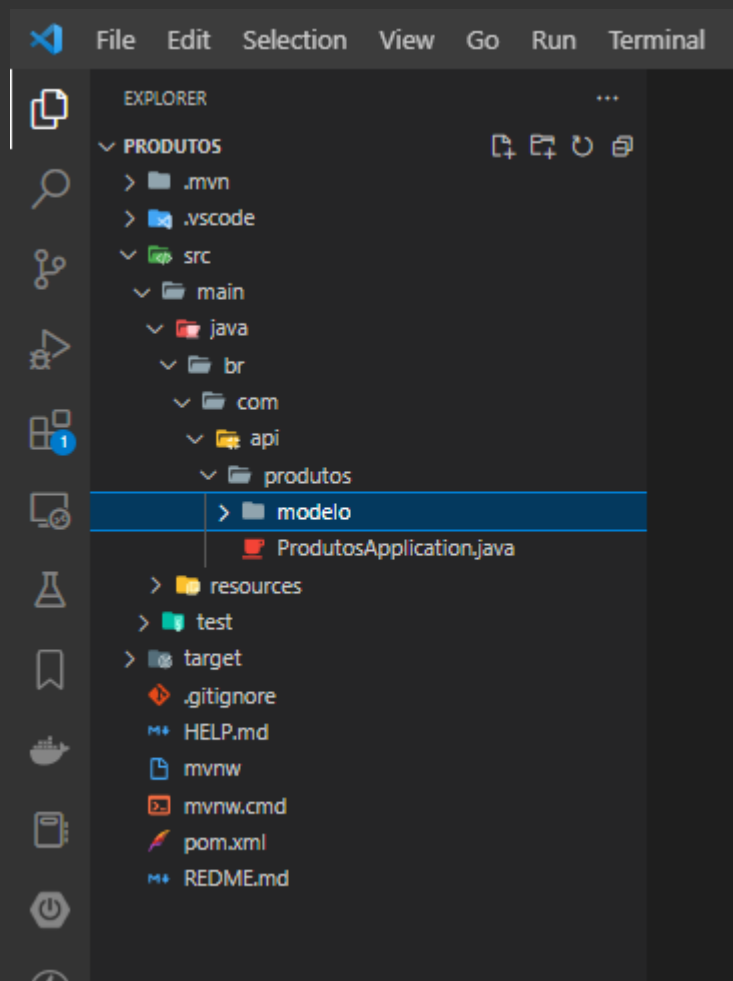


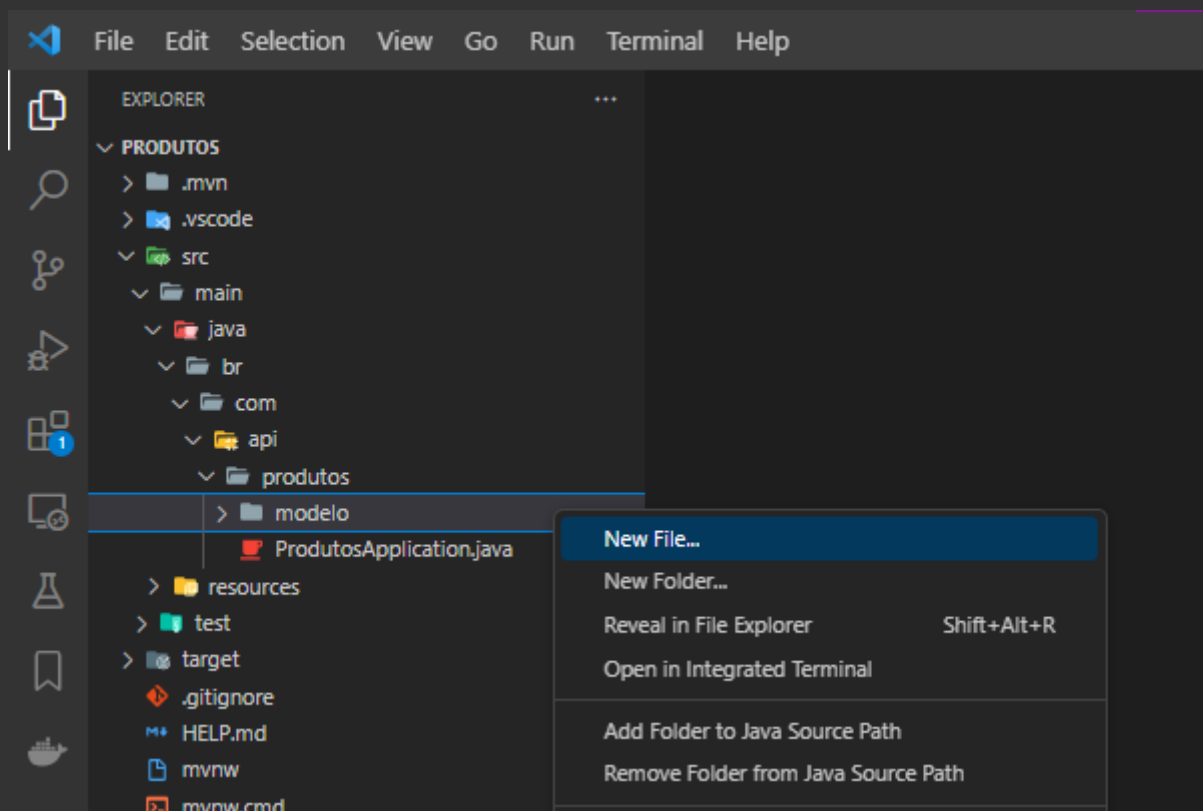
Substitua os dados



Dados trocados









EXPLORER

▼ PRODUTOS

- > .mvn
- > .vscode
- ▼ src
 - ▼ main
 - ▼ java
 - ▼ br
 - ▼ com
 - ▼ api
 - ▼ produtos
 - ▼ modelo

ProdutoModelo.java

ProdutosApplication.java

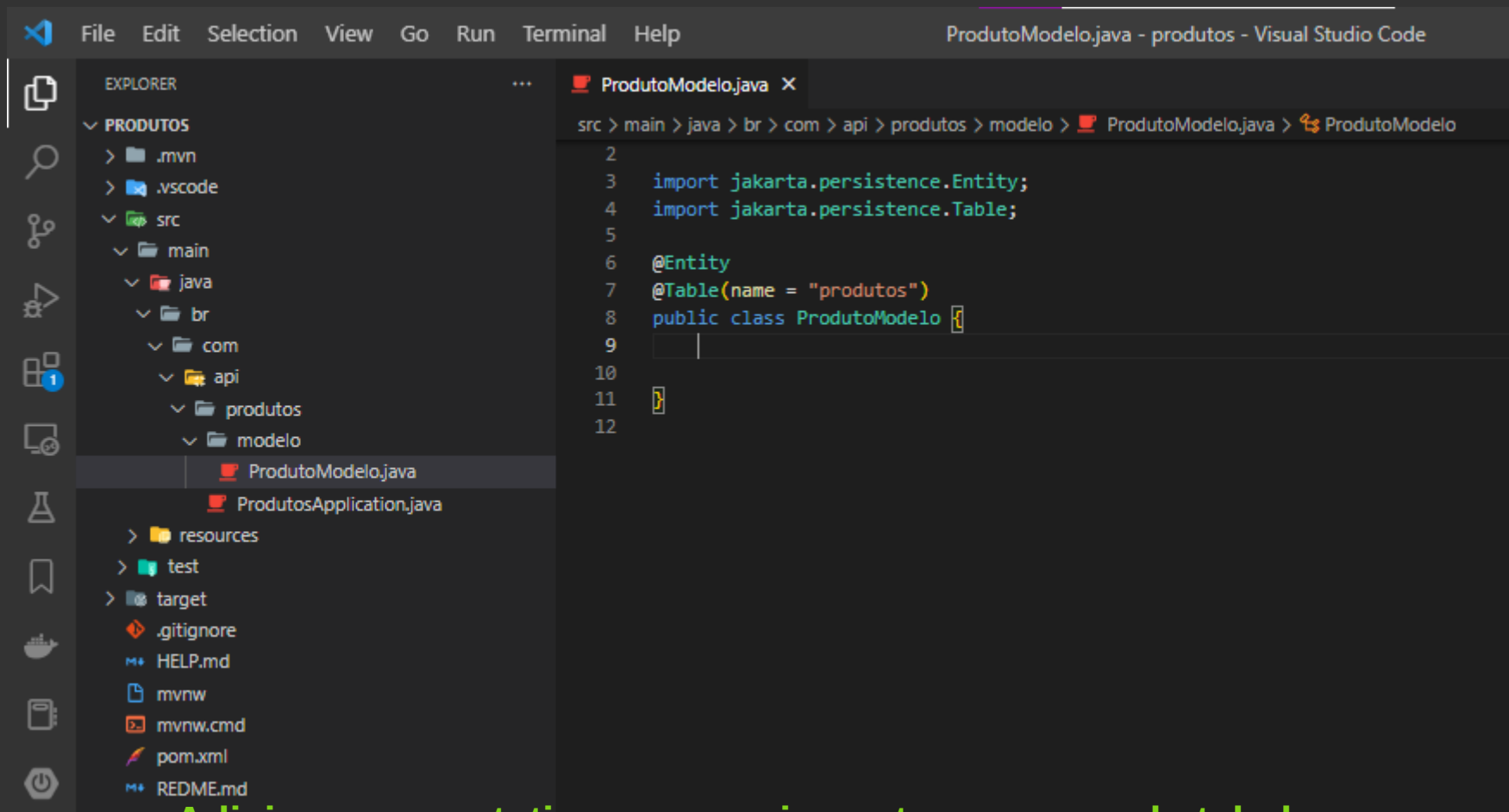
- > resources
- > test
- > target
- > .gitignore
- HELP.md
- mvnw
- mvnw.cmd
- pom.xml
- README.md

ProdutoModelo.java X

src > main > java > br > com > api > produtos > modelo > ProdutoModelo.java > ProdutoModelo

```
1 package br.com.api.produtos.modelo;  
2  
3 public class ProdutoModelo {  
4  
5 }  
6
```

```
class ProdutoModelo  
interface ProdutoModelo  
enum ProdutoModelo  
record ProdutoModelo()  
abstract class ProdutoModelo  
@interface ProdutoModelo
```



**Adicione as anotações e seus imports e o nome da tabela
@Table(name= "produtos") nome da tabela**



File Edit Selection View Go Run Terminal Help

• ProdutoModelo.java - produtos - Visual Studio Code



EXPLORER



ProdutoModelo.java 2



PRODUTOS

- > .mvn
- > .vscode
- src
 - main
 - java
 - br
 - com
 - api
 - produtos
 - modelo

ProdutoModelo.java

2

ProdutosApplication.java

- > resources
- > test
- > target
- .gitignore
- HELP.md
- mvnw
- mvnw.cmd
- pom.xml
- README.md

src > main > java > br > com > api > produtos > modelo > ProdutoModelo.java > ProdutoModelo > codigo

```
1 package br.com.api.produtos.modelo;
2
3 import jakarta.persistence.Entity;
4 import jakarta.persistence.GeneratedValue;
5 import jakarta.persistence.GenerationType;
6 import jakarta.persistence.Id;
7 import jakarta.persistence.Table;
8
9 @Entity
10 @Table(name = "produtos")
11 public class ProdutoModelo {
12
13     // ATRIBUTOS
14     @Id
15     @GeneratedValue(strategy = GenerationType.IDENTITY)
16     private Long codigo;
17     private String nome;
18     private String marca;
19
20 }
21
```



File Edit Selection View Go Run Terminal Help

ProdutoModelo.java - produtos - Visual Studio Code



EXPLORER

▼ PRODUTOS

> .mvn

> .vscode

▼ src

▼ main

▼ java

▼ br

▼ com

▼ api

▼ produtos

▼ modelo

ProdutoModelo.java

ProdutosApplication.java

> resources

> test

> target

.gitignore

HELP.md

mvnw

mvnw.cmd

pom.xml

README.md



ProdutoModelo.java X

src > main > java > br > com > api > produtos > modelo > ProdutoModelo.java > ...

```
1 package br.com.api.produtos.modelo;
2
3 import jakarta.persistence.Entity;
4 import jakarta.persistence.GeneratedValue;
5 import jakarta.persistence.GenerationType;
6 import jakarta.persistence.Id;
7 import jakarta.persistence.Table;
8 import lombok.Getter;
9 import lombok.Setter;
10
11 @Entity
12 @Table(name = "produtos")
13 @Getter
14 @Setter
15 public class ProdutoModelo {
16
17     // ATRIBUTOS
18     @Id
19     @GeneratedValue(strategy = GenerationType.IDENTITY)
20     private Long codigo;
21     private String nome;
22     private String marca;
23
24 }
25
```

EXPLORER

- PRODUTOS
 - .mvn
 - .vscode
 - src
 - main
 - java
 - br
 - com
 - api
 - produtos
 - ProdutoModelo.java
 - ProdutosApplication.java
 - resources
 - test
 - target
 - .gitignore
 - HELP.md
 - mvnw
 - mvnw.cmd
 - pom.xml
 - README.md

ProdutoModelo.java ProdutosApplication.java X

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

Run | Debug

Click em run

DATABASE

- 127.0.0.1@3306 8.0.25
 - api_spring 32k
 - dbagenda
 - sakila
 - spring_react
 - tables (1)
 - produtos
 - views
 - procedures
 - functions
 - world

```

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

```

Atualize a tabela pra ver

PROBLEMS OUTPUT TERMINAL

▼ TERMINAL

```

2023-01-30T14:20:41.814-03:00 INFO 12124 --- [ restartedMain] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFa
ctory for persistence unit 'default'
2023-01-30T14:20:41.935-03:00 WARN 12124 --- [ restartedMain] JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view is enab
led by default. Therefore, database queries may be performed during view rendering. Explicitly configure spring.jpa.open-in-view to disabl
e this warning
2023-01-30T14:20:42.768-03:00 INFO 12124 --- [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on
port 35729
2023-01-30T14:20:42.935-03:00 INFO 12124 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080
(http) with context path ''
2023-01-30T14:20:42.992-03:00 INFO 12124 --- [ restartedMain] b.com.api.produtos.ProdutosApplication : Started ProdutosApplication in
14.002 seconds (process running for 15.002)

```

Visual Studio Code interface showing a Spring Boot application setup.

Left Panel (Database Explorer): Shows the database structure for 'spring_react'. The 'produtos' table is expanded, showing columns: 'codigo' (bigint), 'marca' (varchar(255)), and 'nome' (varchar(255)). A green arrow points from the 'marca' column to the 'ProdutoModelo.java' file.

Top Panel (Code Editor): Displays the 'ProdutoModelo.java' file with the following code:

```
15 public class ProdutoModelo {
16
17     // ATRIBUTOS
18     @Id
19     @GeneratedValue(strategy = GenerationType.IDENTITY)
20     private Long codigo;
21     private String nome;
22     private String marca;
23
24 }
25
```

Right Panel (Code Editor): Displays the 'ProdutosApplication.java' file with the following code:

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

Bottom Panel (Terminal): Shows the output of the application startup:

```
2023-01-30T14:20:41.814-03:00 INFO 12124 --- [ restartedMain] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persistence unit 'default'
2023-01-30T14:20:41.935-03:00 WARN 12124 --- [ restartedMain] JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view is enabled by default. Therefore, database queries may be performed during view rendering. Explicitly configure spring.jpa.open-in-view to disable this warning
2023-01-30T14:20:42.768-03:00 INFO 12124 --- [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on port 35729
2023-01-30T14:20:42.935-03:00 INFO 12124 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080
```

De onde vem os dados

#4

ESTRUTURANDO O PROJETO

File Edit Selection View Go Run Terminal Help

ProdutosApplication.java - produtos - Visual Studio Code

SPRING BOOT DASHBOARD

APPS

- produtos

BEANS

- produtos
 - produtosApplication

ProdutosApplication.java

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

PROBLEMS OUTPUT TERMINAL

TERMINAL

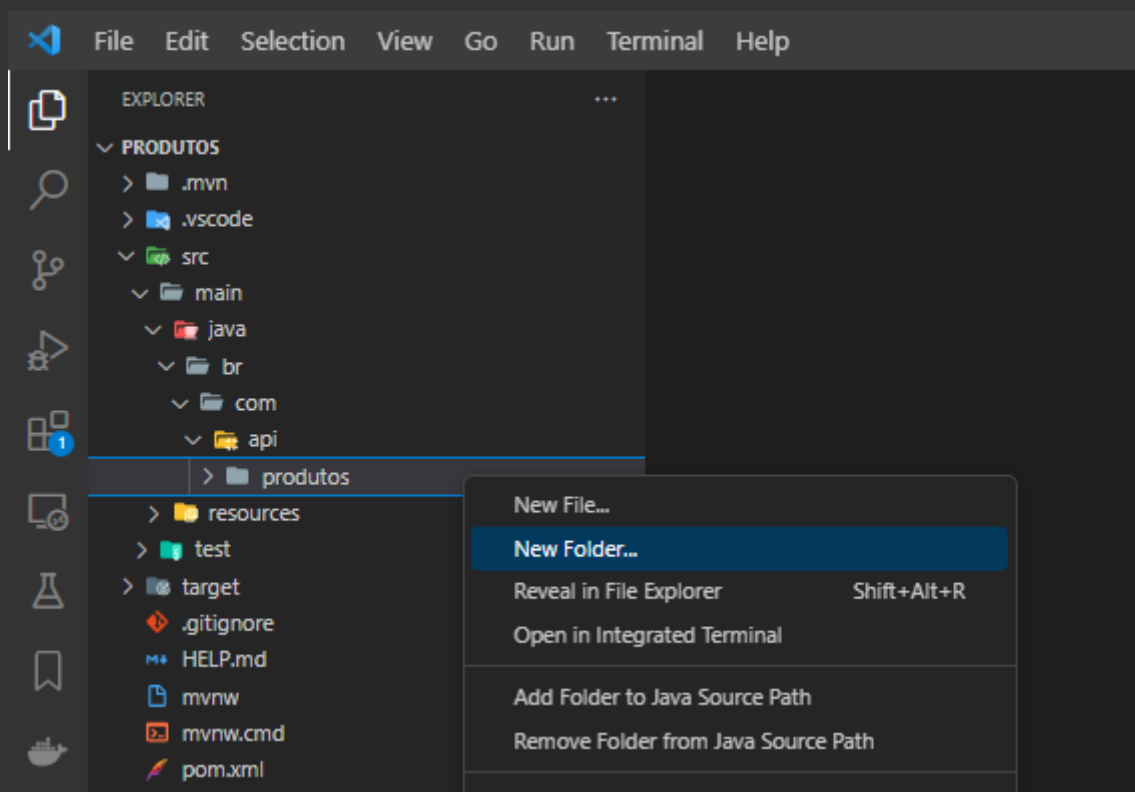
```
2023-01-30T14:20:41.814-03:00 INFO 12124 --- [ restartedMain] j.LocalContainerEntityManagerFact
ctory for persistence unit 'default'
2023-01-30T14:20:41.935-03:00 WARN 12124 --- [ restartedMain] InaBaseConfiguration$InaWebConfie
```

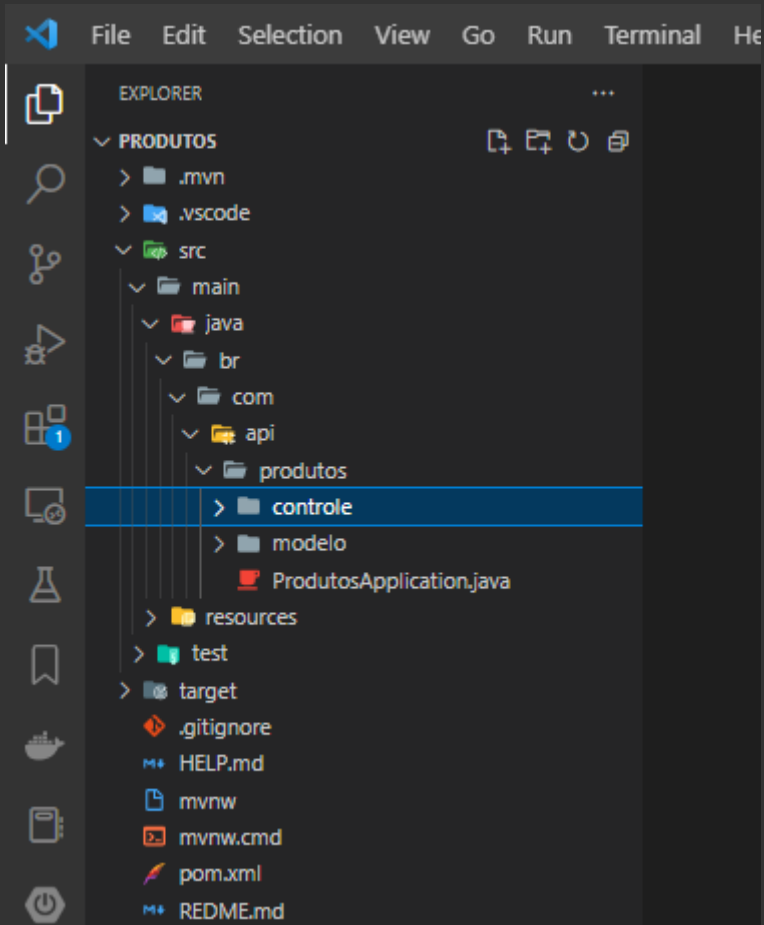
PARE DE RODAR O PROJETO

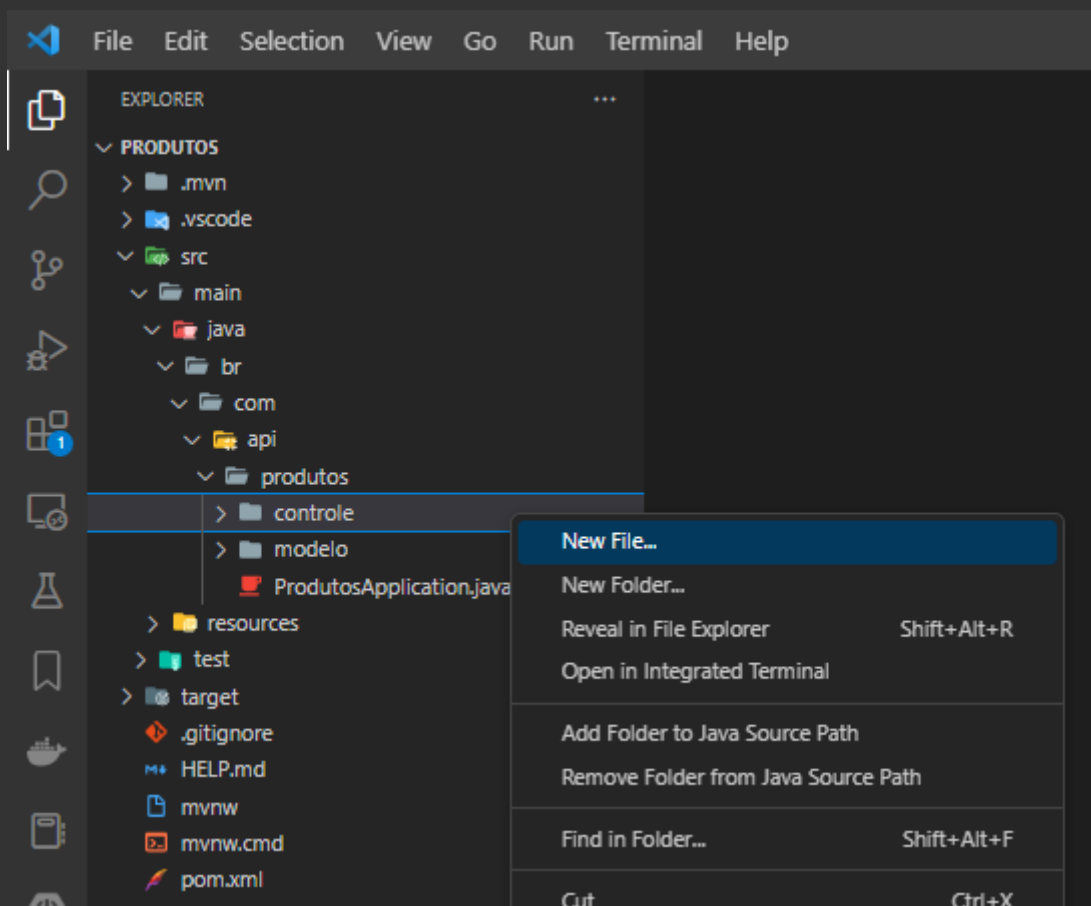
```
PROBLEMS  OUTPUT  TERMINAL
▼ TERMINAL  Run: ProdutosApplication + ▾ □ ☒ ▼ DI

2023-01-30T14:20:41.814-03:00 INFO 12124 --- [ restartedMain] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persistence unit 'default'
2023-01-30T14:20:41.935-03:00 WARN 12124 --- [ restartedMain] JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view is enabled by default. Therefore, database queries may be performed during view rendering. Explicitly configure spring.jpa.open-in-view to disable this warning
2023-01-30T14:20:42.768-03:00 INFO 12124 --- [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on port 35729
2023-01-30T14:20:42.935-03:00 INFO 12124 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path ''
2023-01-30T14:20:42.992-03:00 INFO 12124 --- [ restartedMain] b.com.api.produtos.ProdutosApplication : Started ProdutosApplication in 14.002 seconds (process running for 15.002)
2023-01-30T14:27:17.039-03:00 INFO 12124 --- [ionShutdownHook] j.LocalContainerEntityManagerFactoryBean : Closing JPA EntityManagerFactory for persistence unit 'default'
2023-01-30T14:27:17.048-03:00 INFO 12124 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Shutdown initiated...
2023-01-30T14:27:17.095-03:00 INFO 12124 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Shutdown completed.
PS E:\SPRINGBOOT-REACT-2023\produtos> 
```

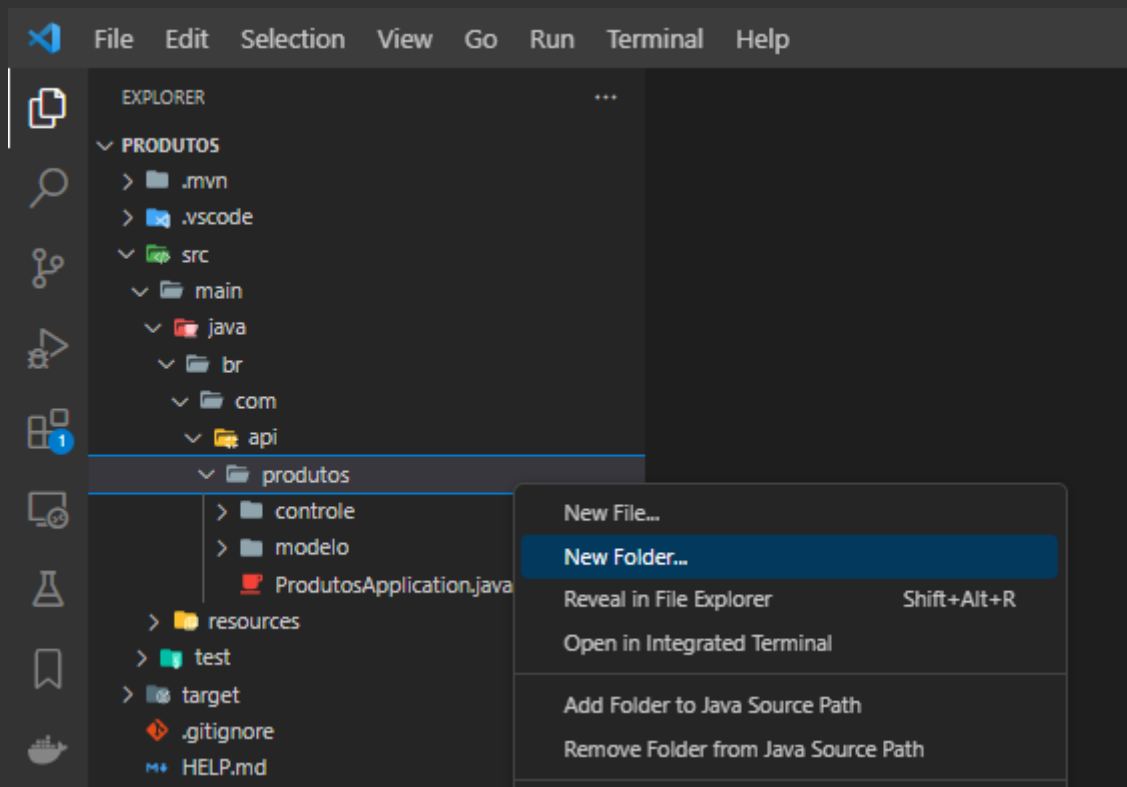
**OU DIGITE CTRL + C
NO TERMINAL**

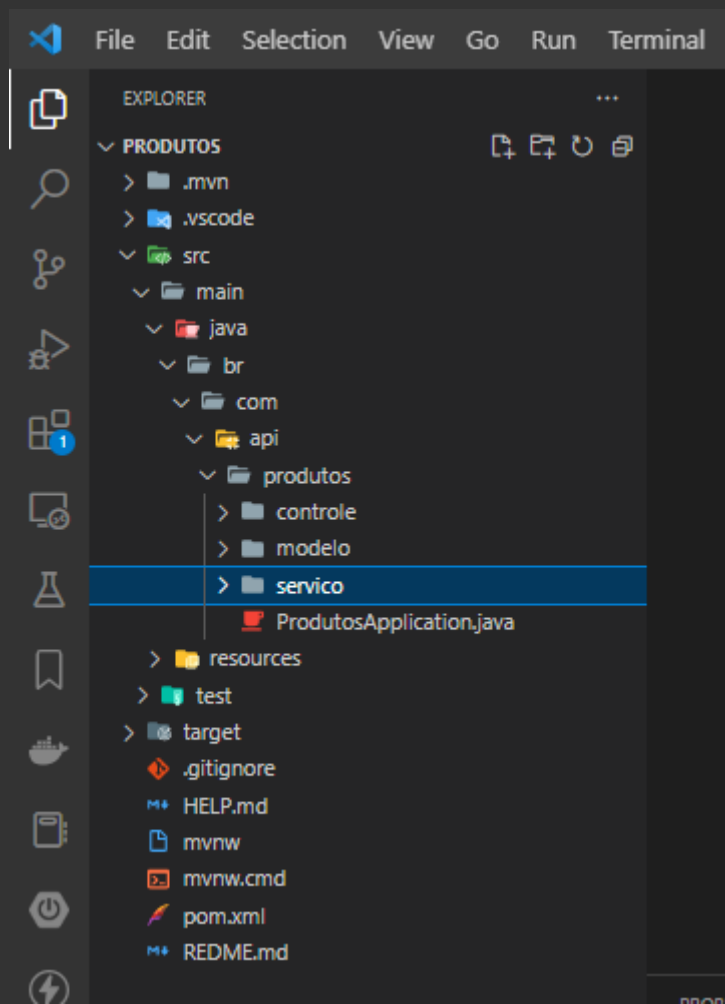












File Edit Selection View Go Run Terminal Help



EXPLORER

▼ PRODUTOS

> .mvn

> .vscode

▼ src

▼ main

▼ java

▼ br

▼ com

▼ api

▼ produtos

> controle

> modelo

> serviço

ProdutosApplication.java

> resources

> test

> target

.gitignore

HELP.md

mvnw

mvnw.cmd

pom.xml

README.md

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...

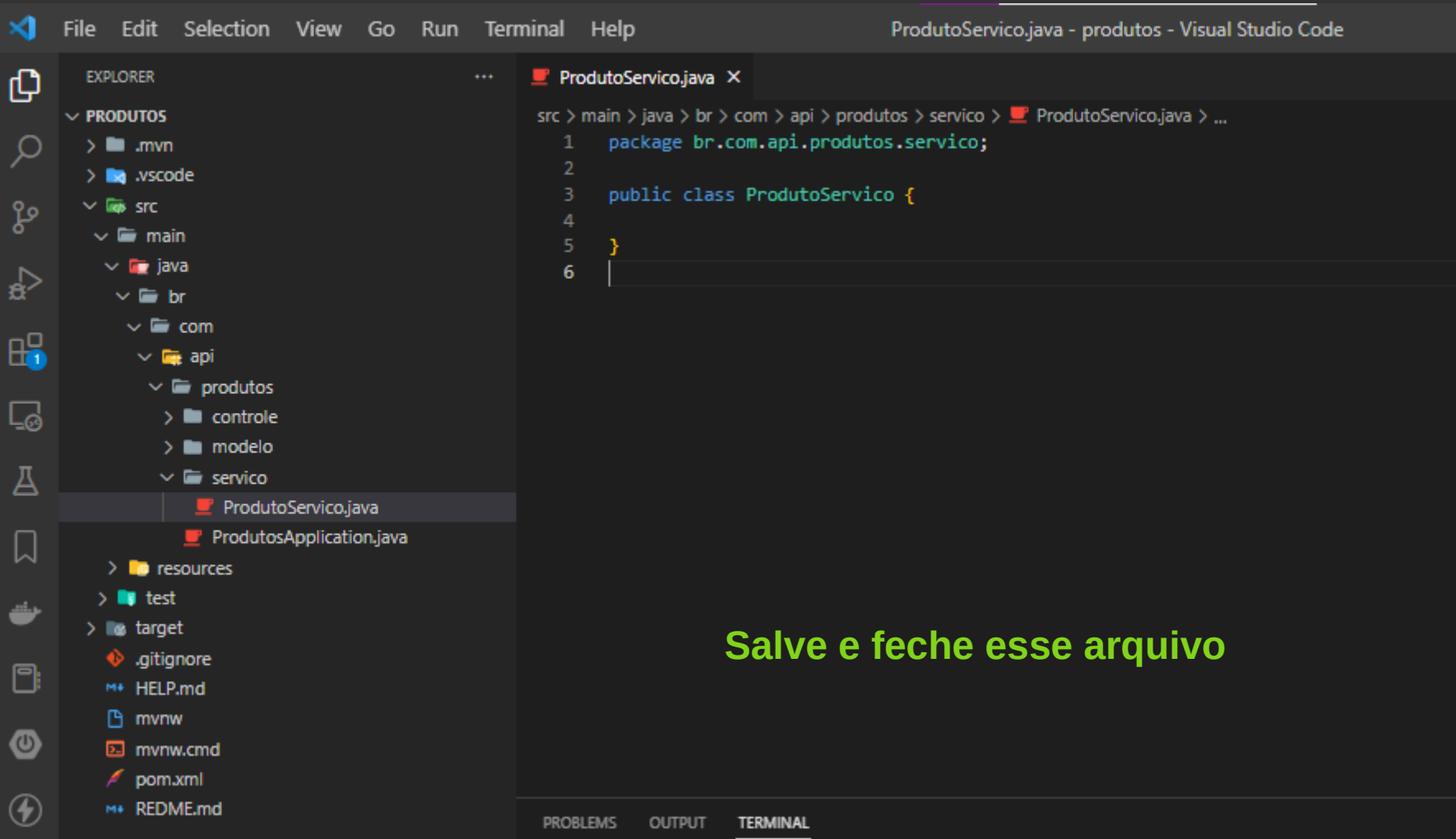
Shift+Alt+F

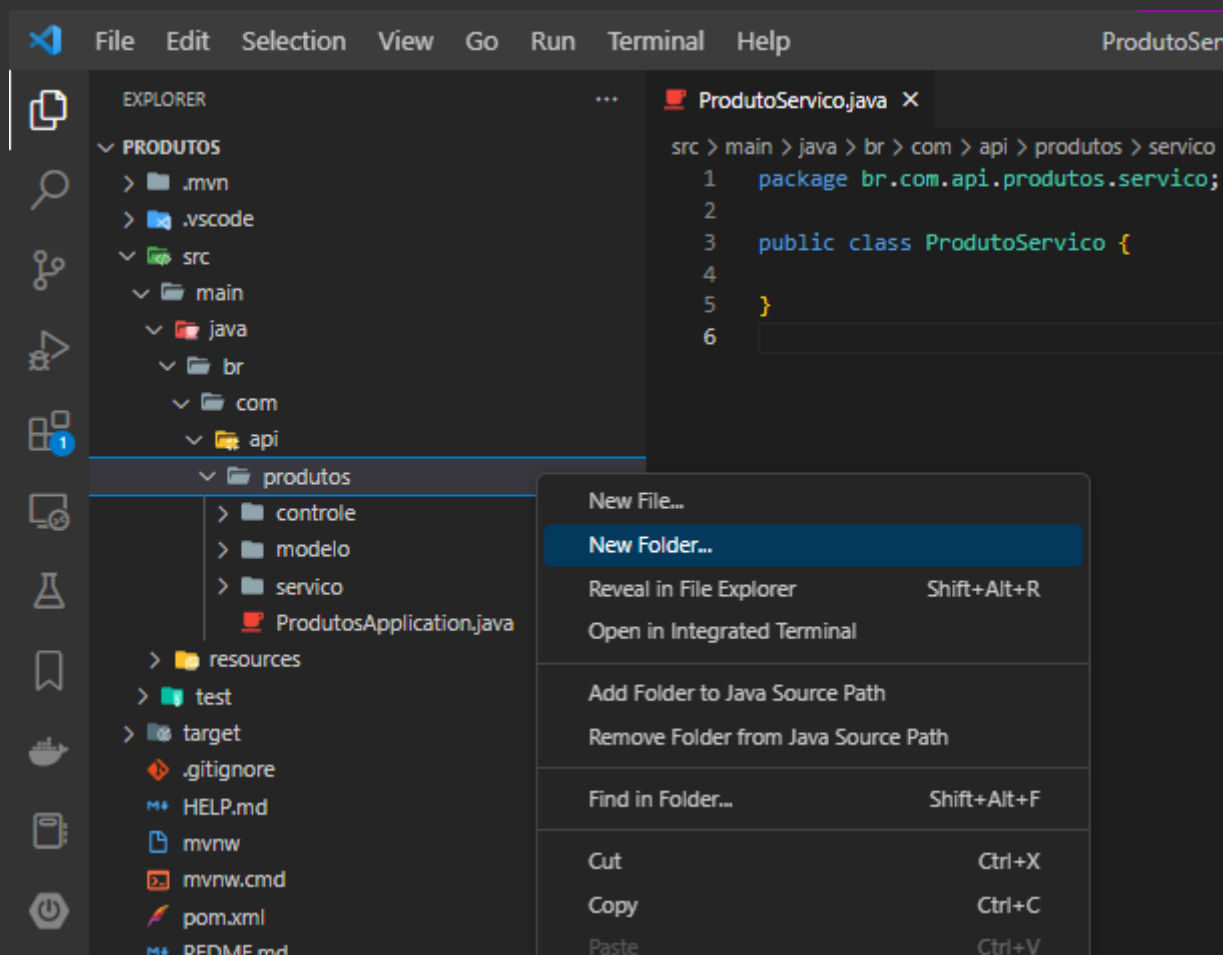
Cut

Ctrl+X

Copy

Ctrl+C





File Edit Selection View Go Run Terminal H

EXPLORER

...

Produ

src > ma

1

2

3

4

5

6

PRODUCTOS

> .mvn

> .vscode

> src

> main

> java

> br

> com

> api

> produtos

> controle

> modelo

> repositorio

> servico

ProdutosApplication.java

> resources

> test

> target

.gitignore

HELP.md

mvnw

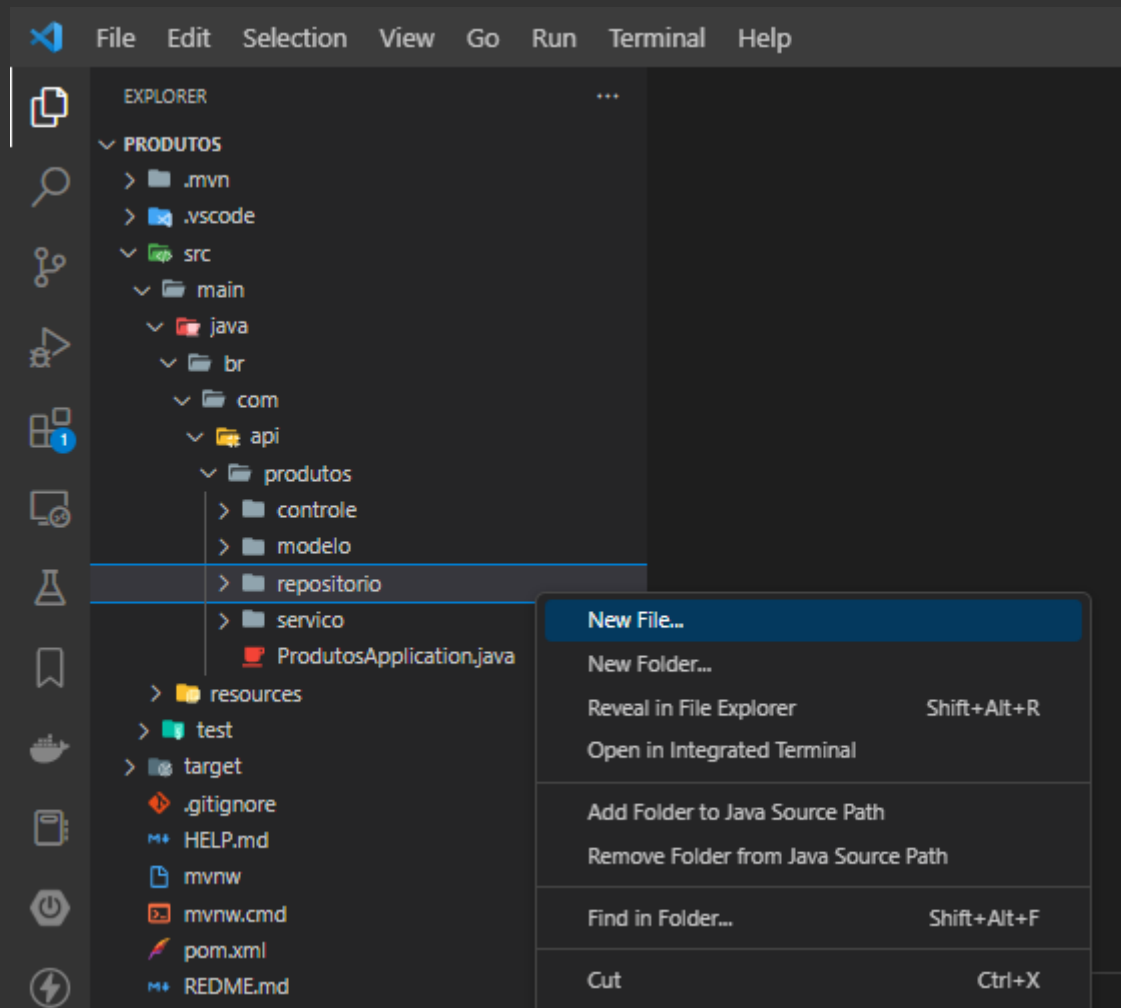
mvnw.cmd

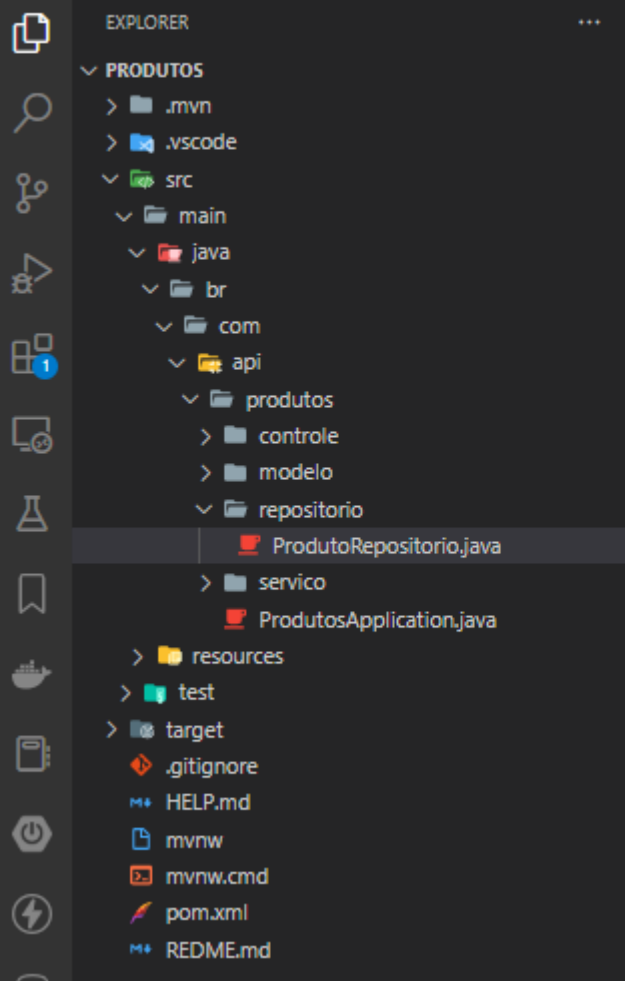
pom.xml

README.md

PROBLEM

TERMINAL





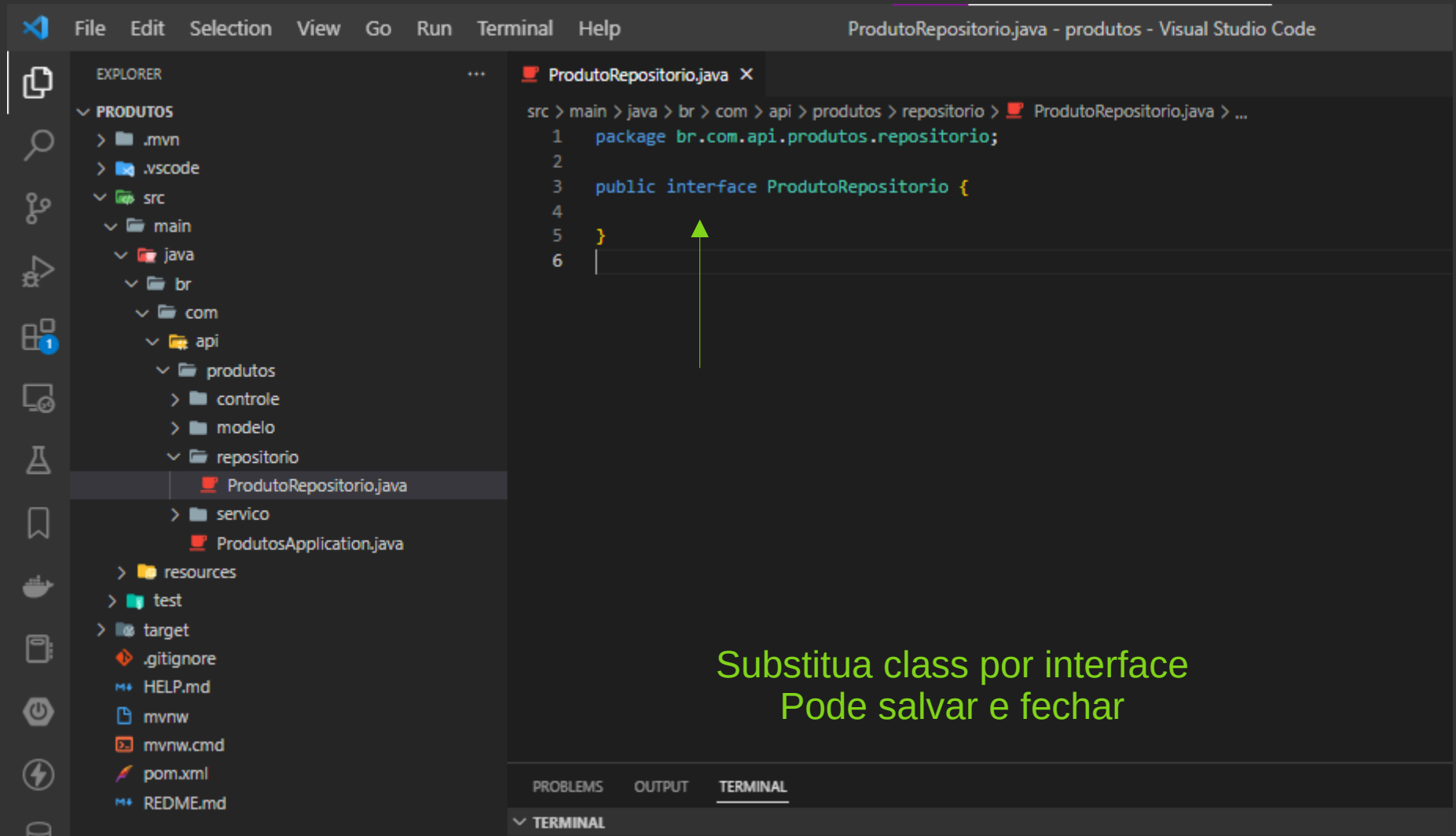
ProdutoRepositorio.java X

src > main > java > br > com > api > produtos > repositorio > ProdutoRepositorio.java > ...

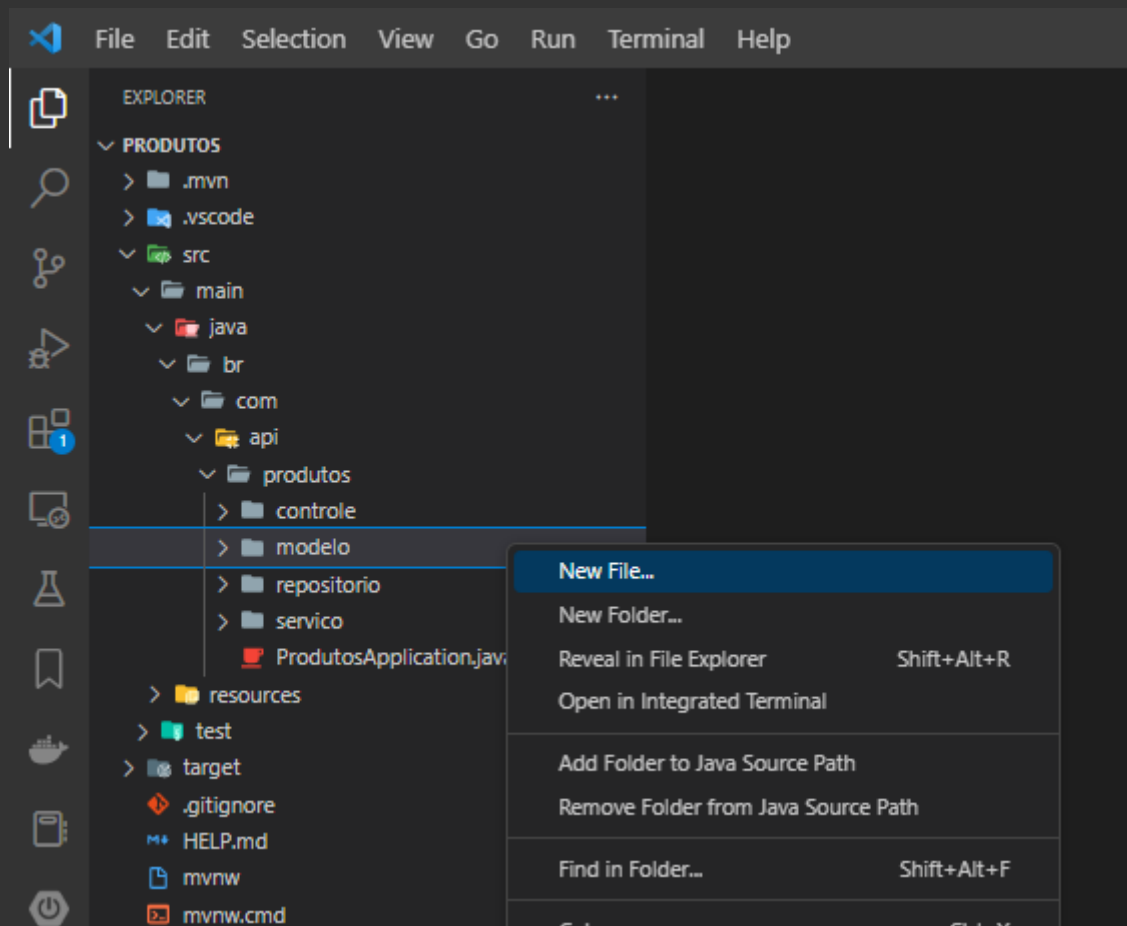
```
1 package br.com.api.produtos.repositorio;
2
3 public class ProdutoRepositorio {
4
5 }
6
```

PROBLEMS OUTPUT TERMINAL

TERMINAL



Substitua class por interface
Pode salvar e fechar





EXPLORER

▼ PRODUTOS

> .mvn

> .vscode

▼ src

▼ main

▼ java

▼ br

▼ com

▼ api

▼ produtos

> controle

▼ modelo

ProdutoModelo.java

RespostaModelo.java

> repositorio

> servico

ProdutosApplication.java

> resources

> test

> target

.gitignore

HELP.md

mvnw

mvnw.cmd

pom.xml

README.md

RespostaModelo.java X

src > main > java > br > com > api > produtos > modelo > RespostaModelo.java > ...

1 package br.com.api.produtos.modelo;

2

3 public class RespostaModelo {

4

5 }

6

Salve e pode fechar

PROBLEMS

OUTPUT

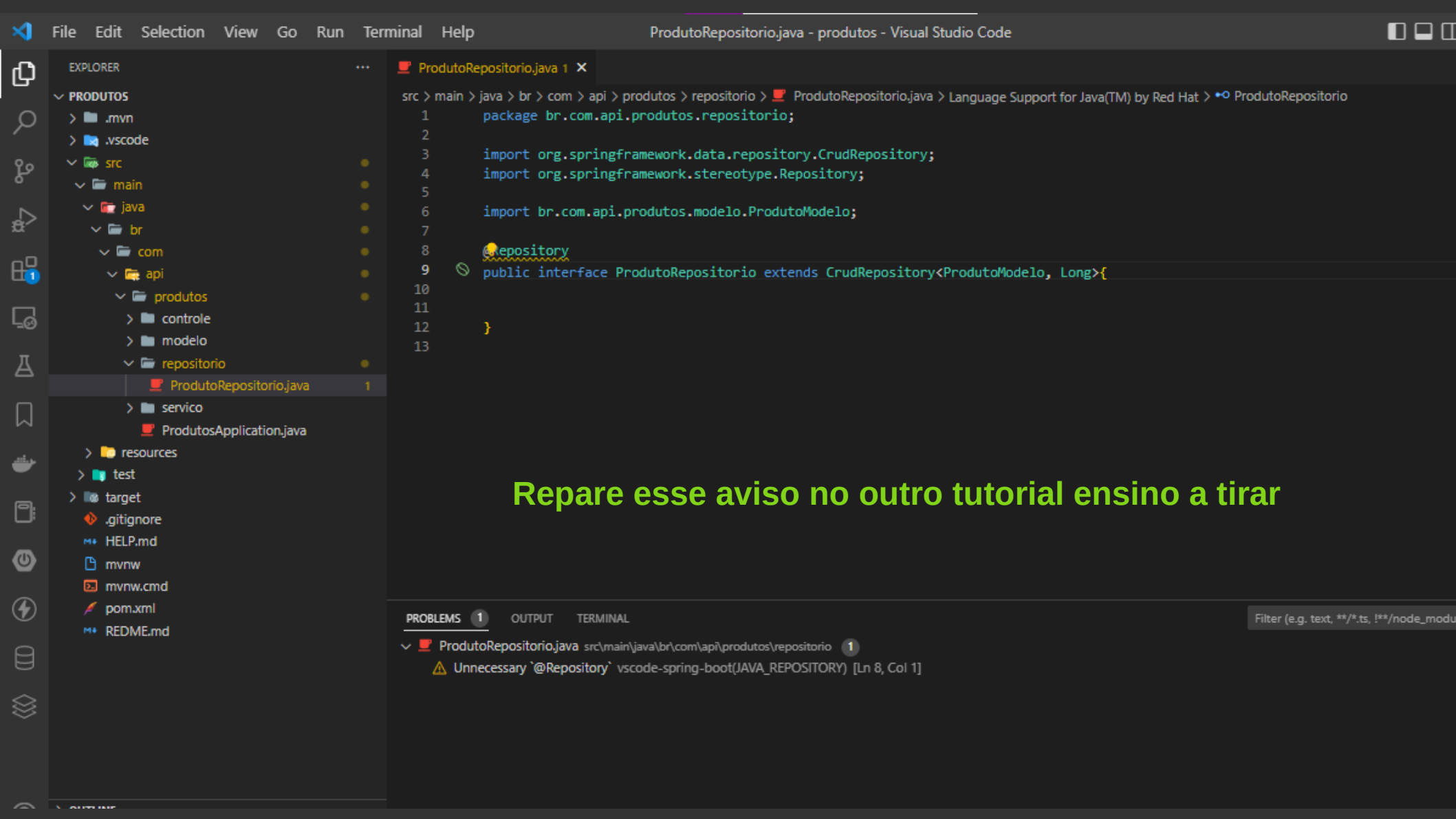
TERMINAL

▼ TERMINAL

port 35729

#5

CONFIGURANDO O REPOSITORIO



Repare esse aviso no outro tutorial ensino a tirar

