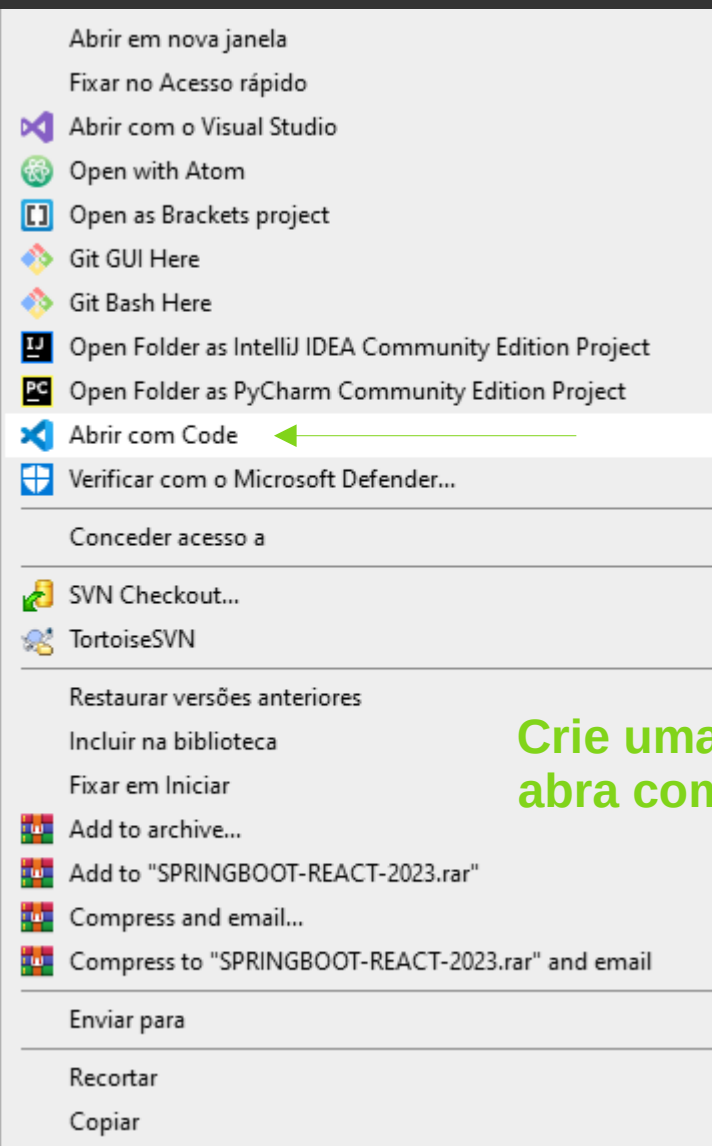
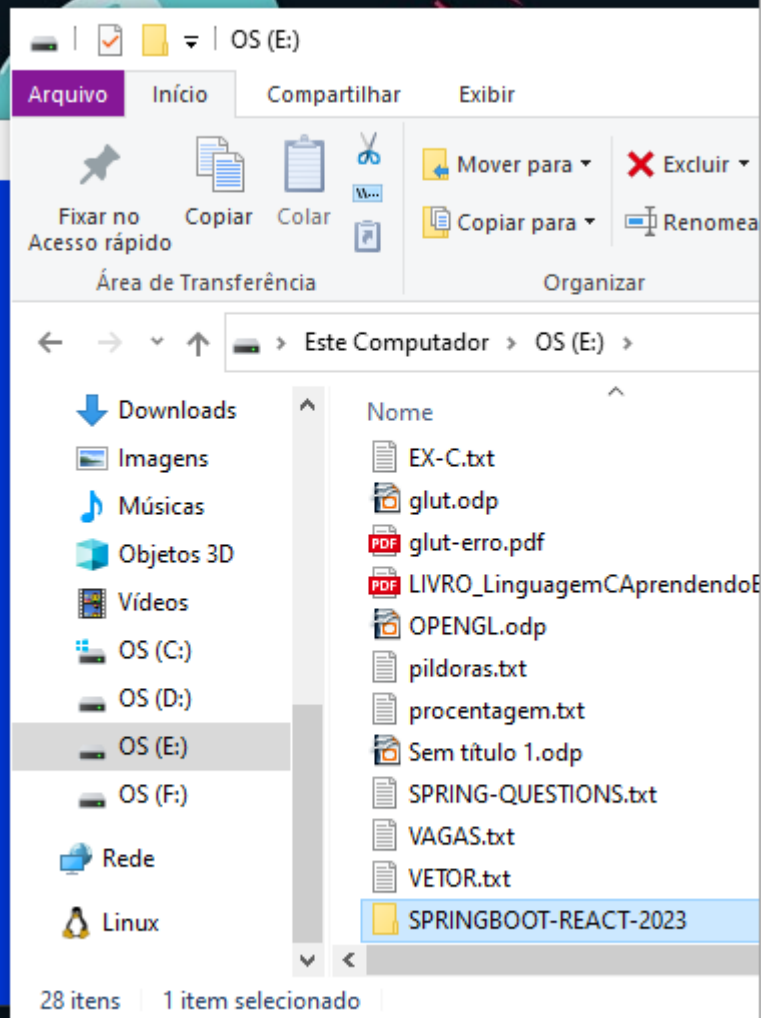
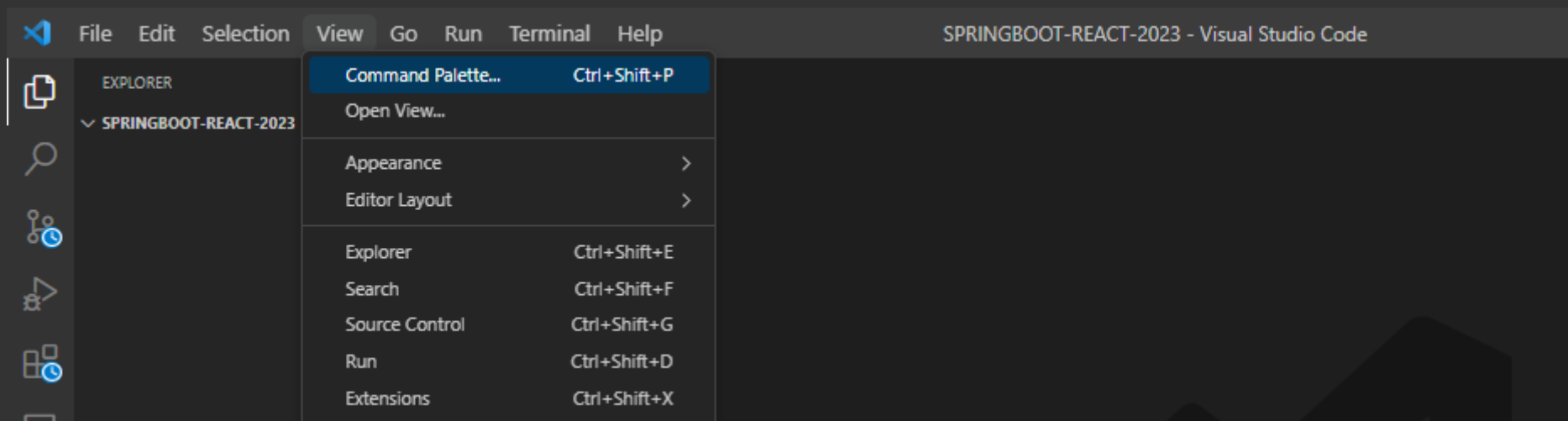



**SPRINGBOOT E REACT**  
**2023**  
**NANO**



Crie uma pasta e abra com o code



&gt;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

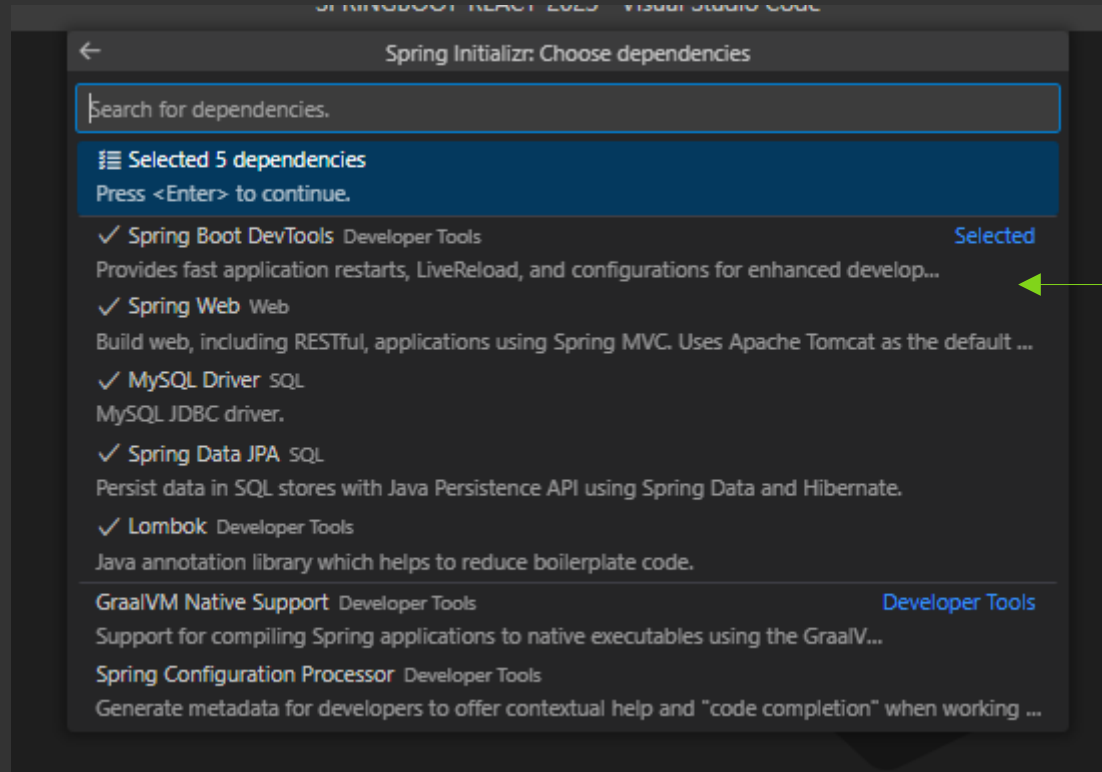
8

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.

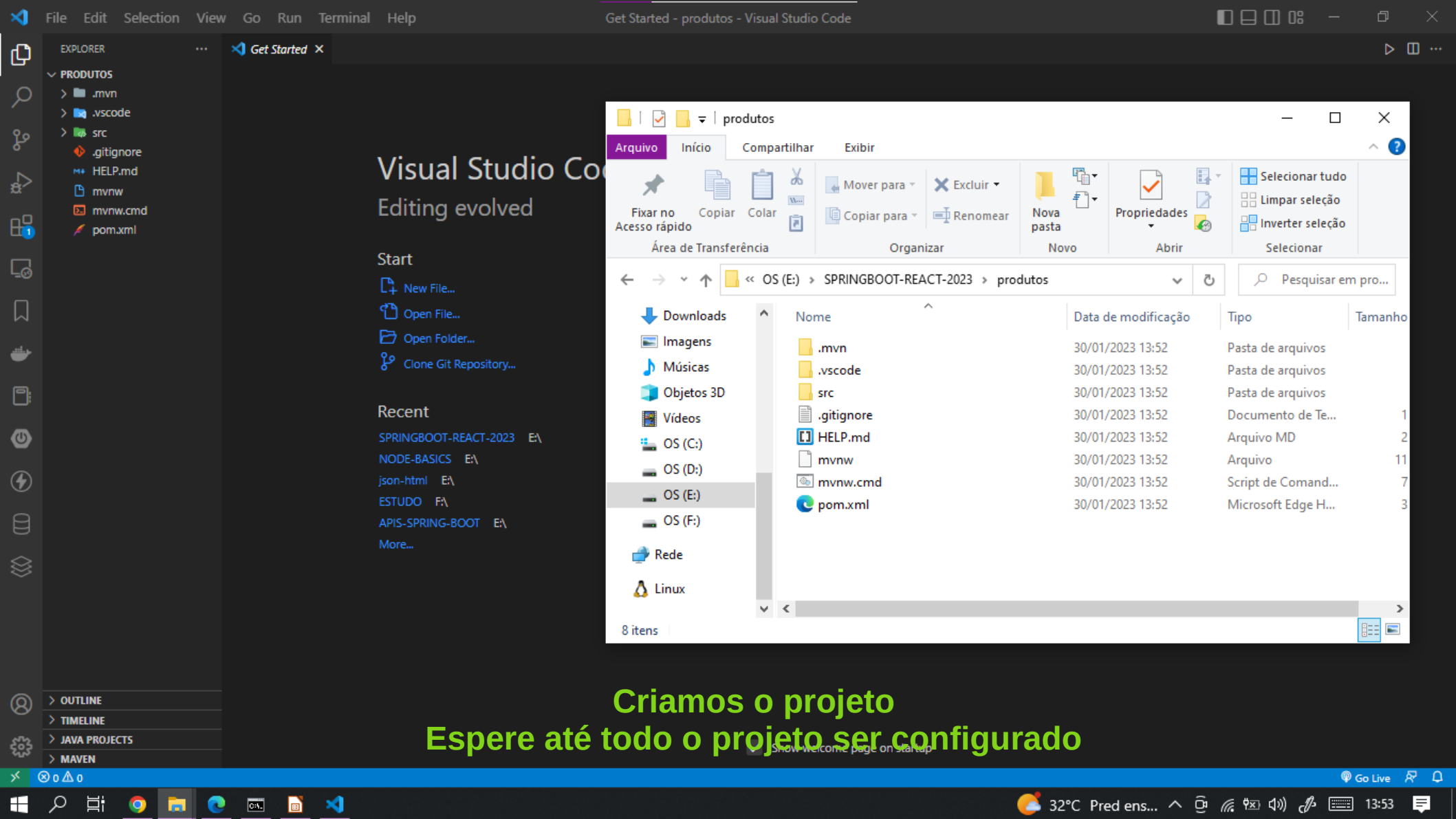
C:\>java -version
java version "17" 2021-09-14 LTS
Java(TM) SE Runtime Environment (build 17+35-LTS-2724)
Java HotSpot(TM) 64-Bit Server VM (build 17+35-LTS-2724, mixed mode, sharing)

C:\>
```



**Adicione essas 5 dependencias e tecle enter**





Visual Studio Code  
Editing evolved

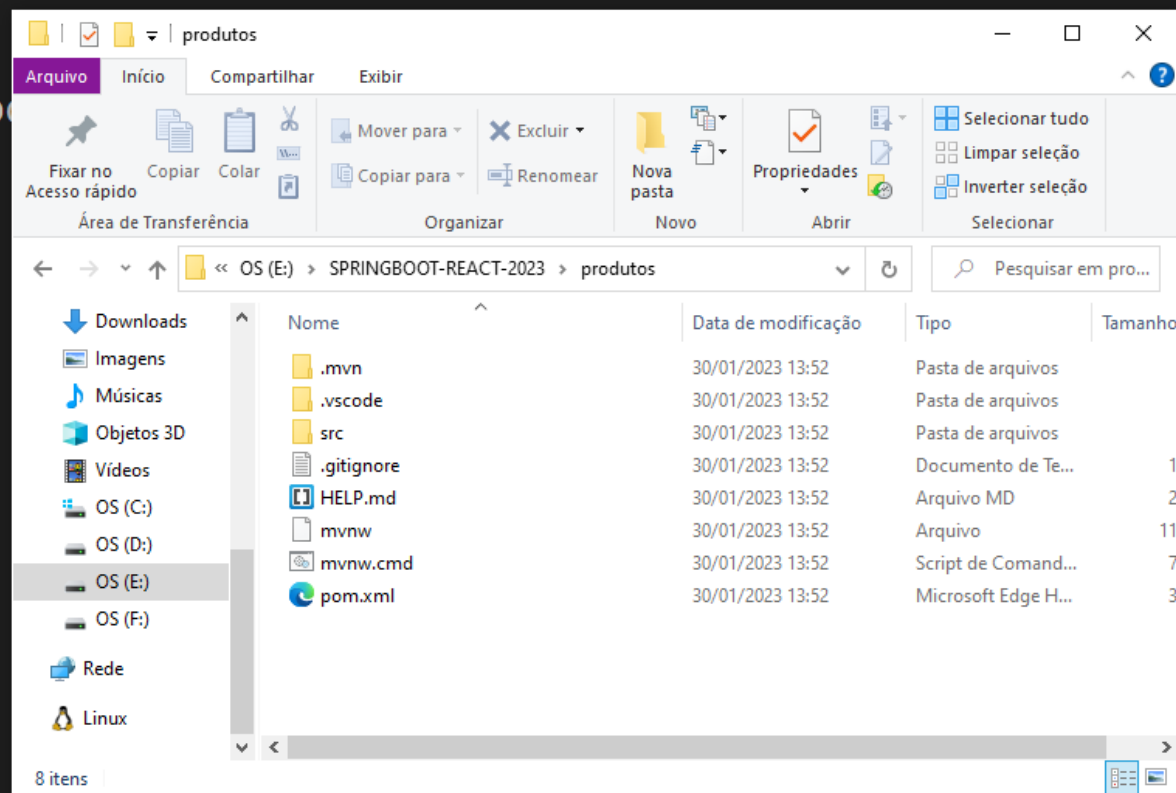
### Start

- 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...    



FileEditSelectionViewGoRunTerminalHelp

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

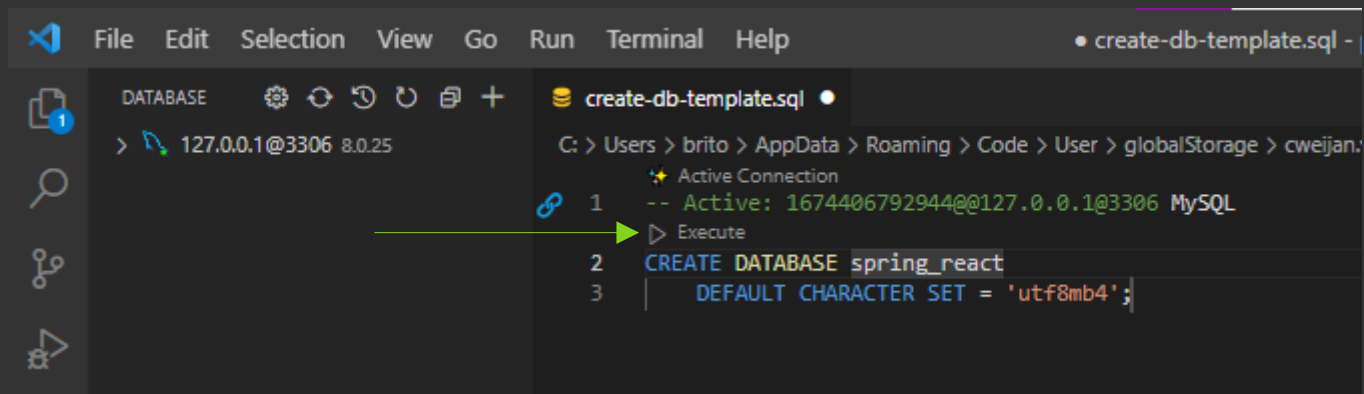
DATABASE

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 > ...

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

Criamos o banco de dados

Data ×

```

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

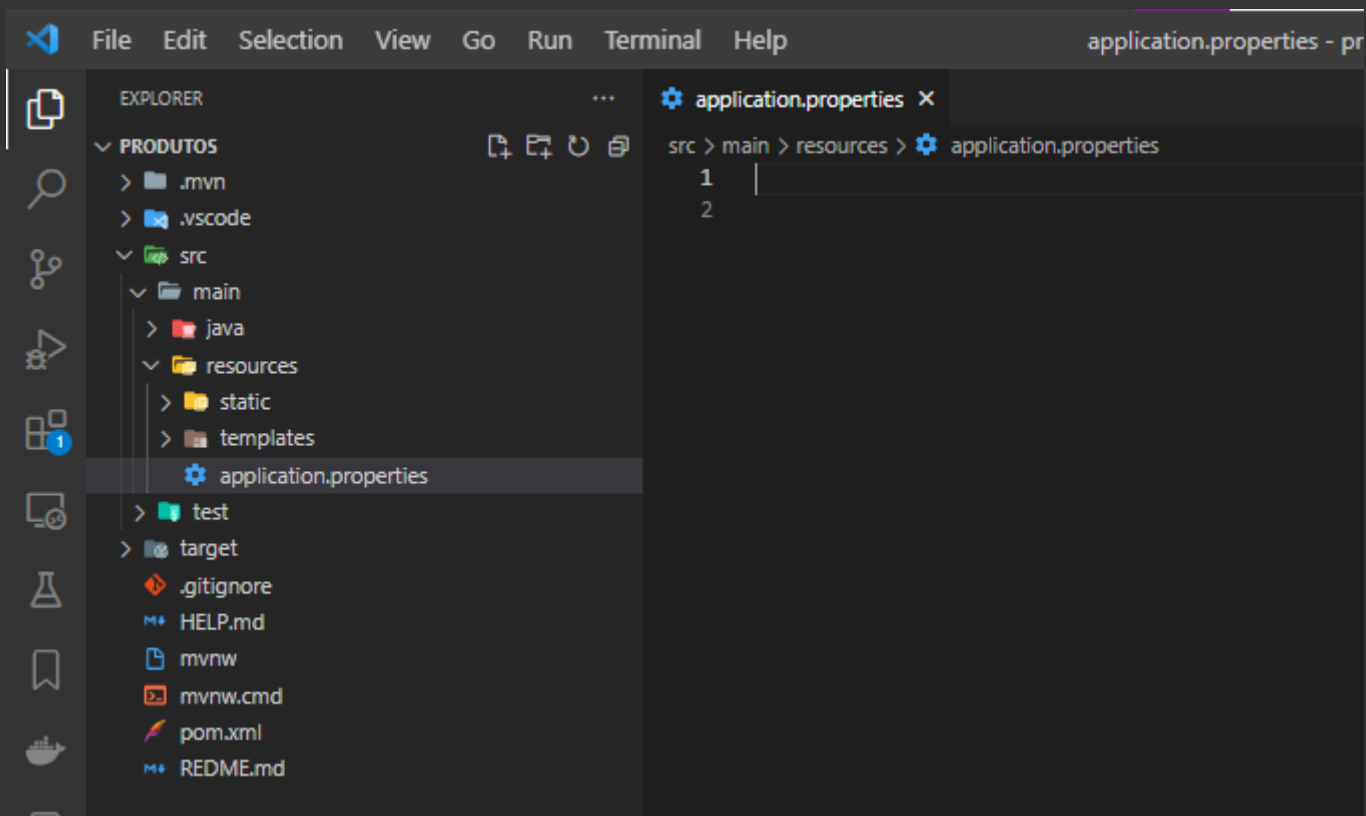
Free 1

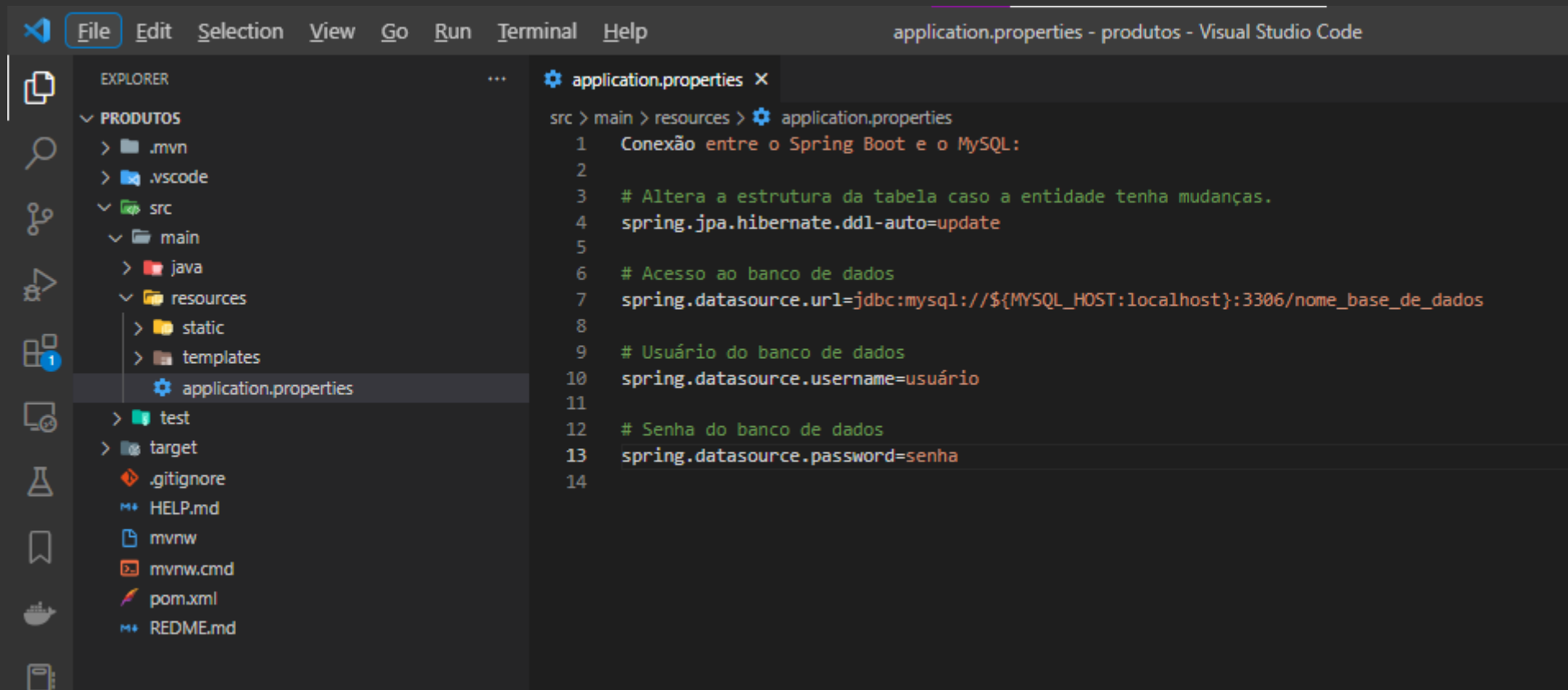
Cost: 695ms < >

```

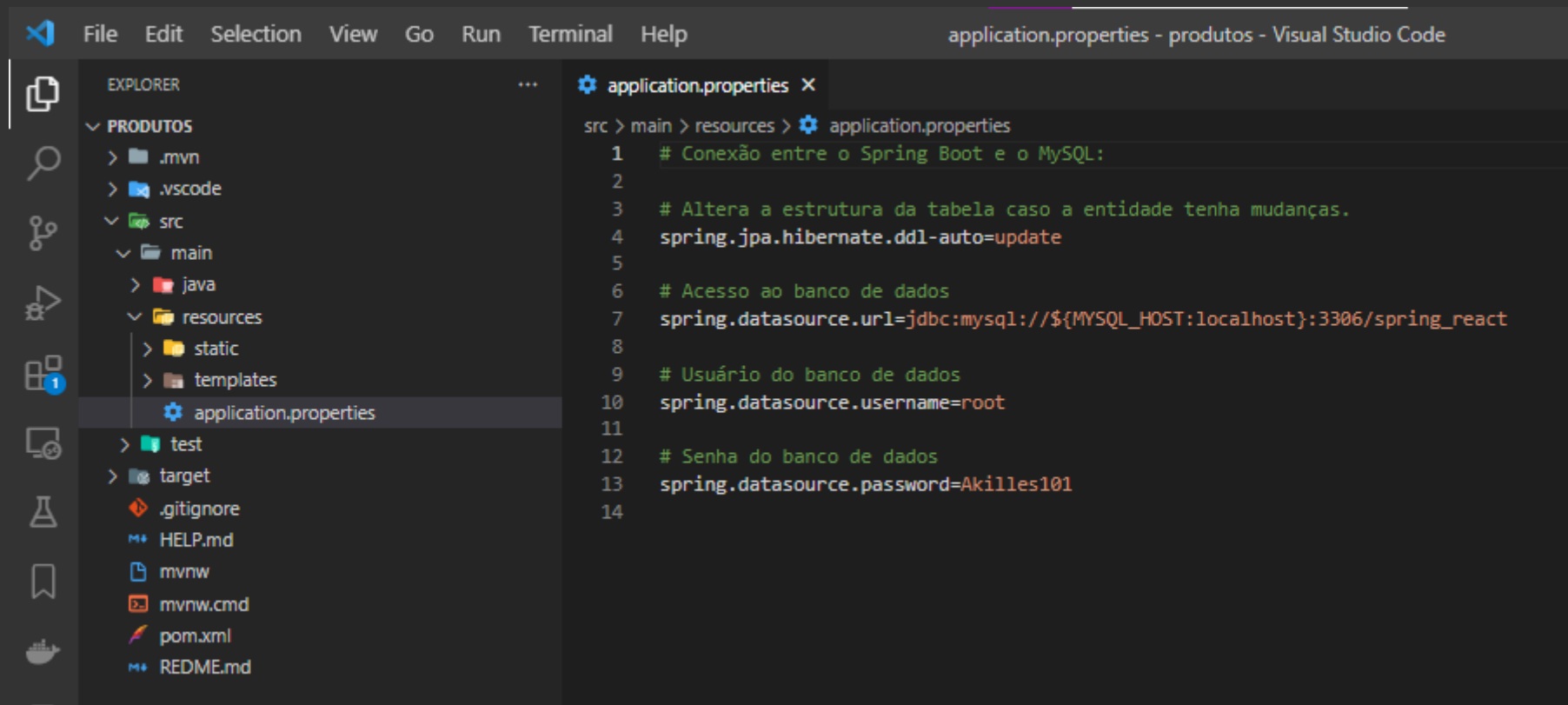
CREATE DATABASE spring_react DEFAULT CHARACTER SET = 'utf8mb4'

AffectedRows : 1
  
```

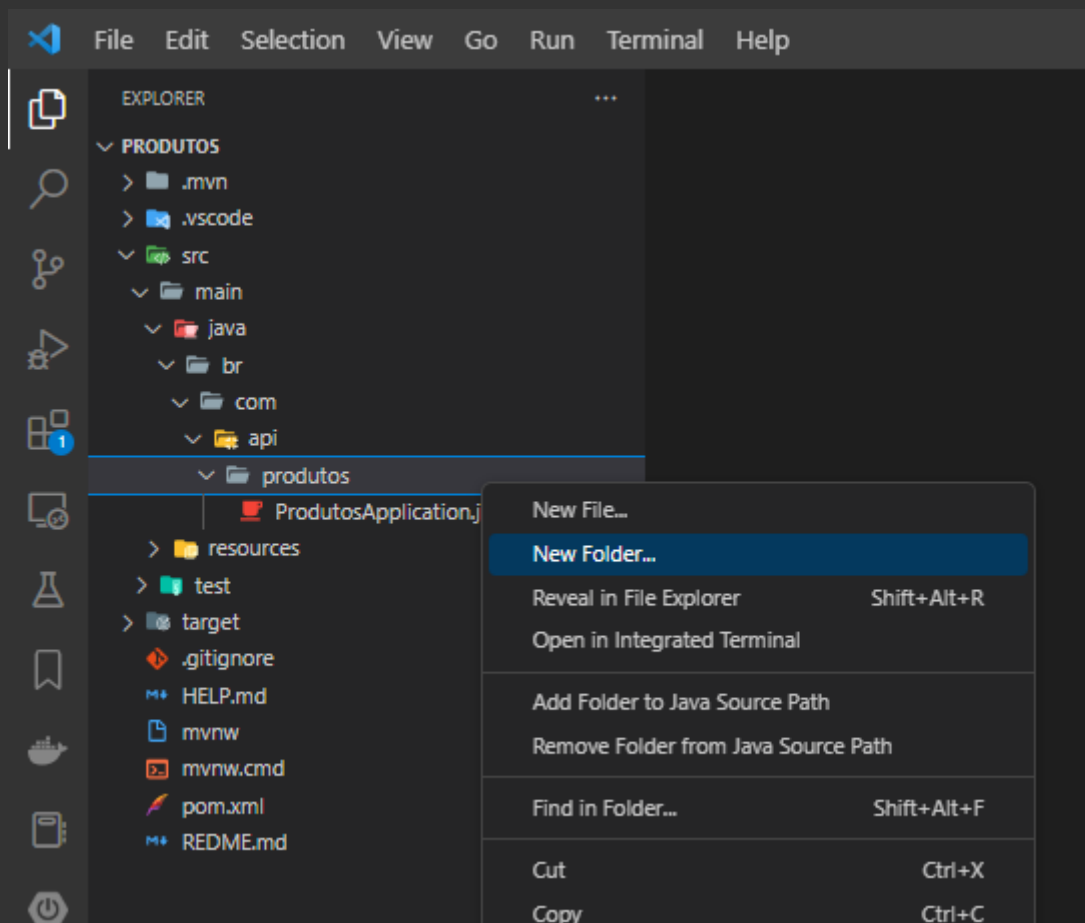


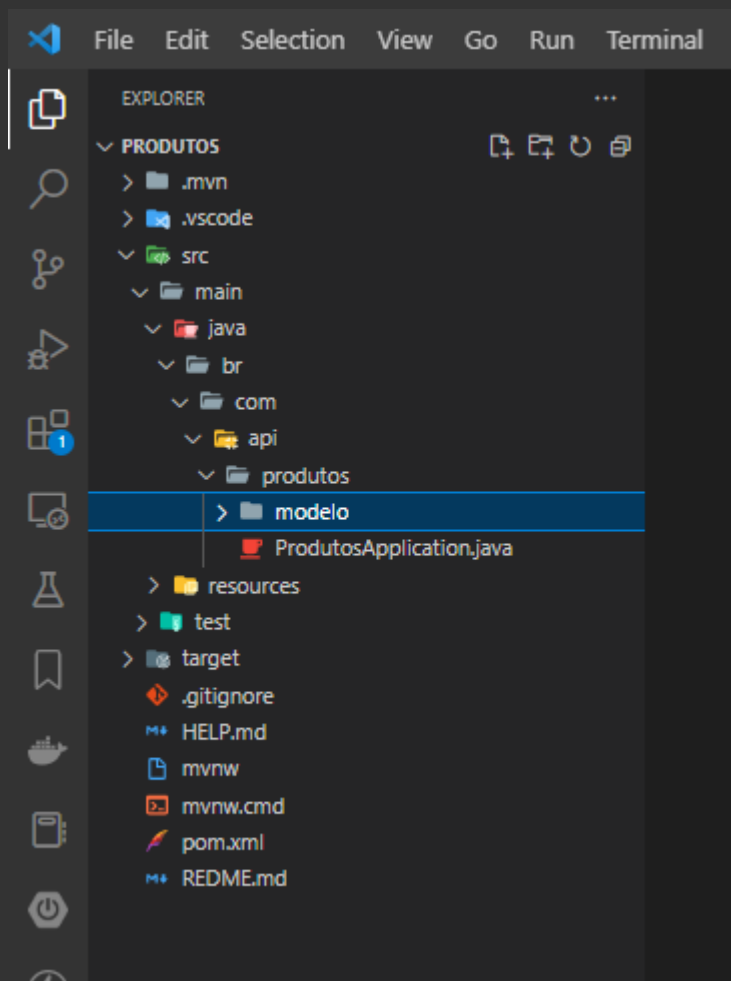


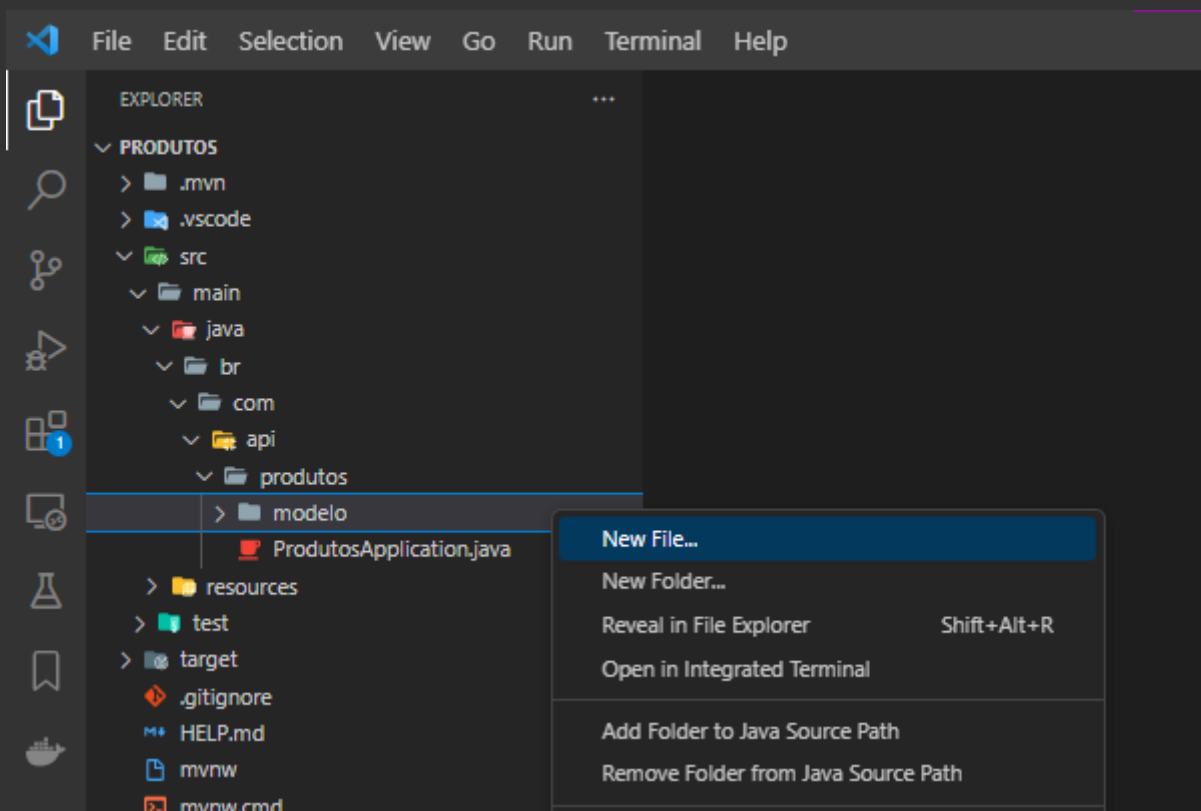
Substitua os dados



Dados trocados











## EXPLORER

## ▼ PRODUTOS

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

ProdutoModelo.java

ProdutosApplication.java

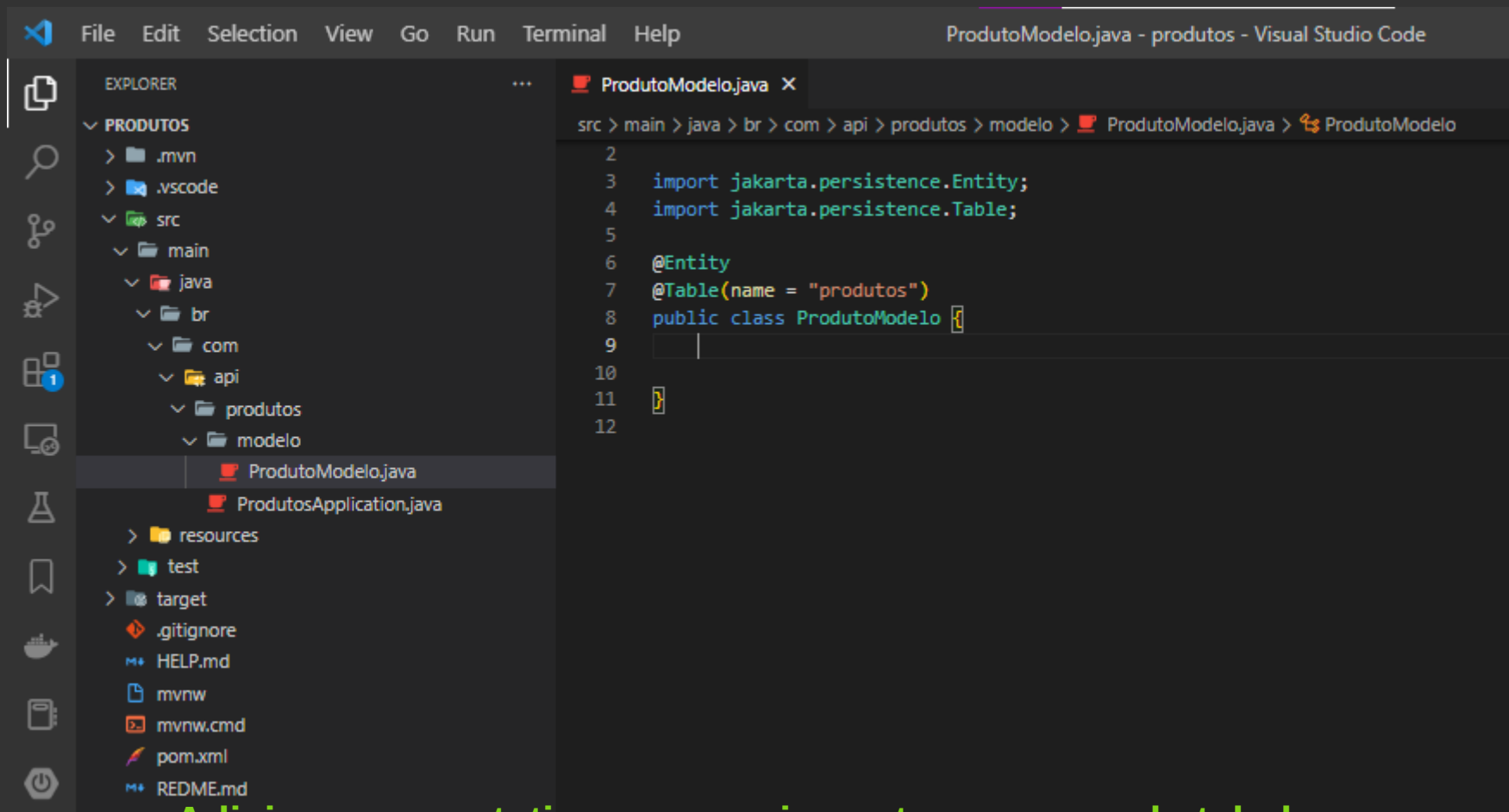
- > resources
- > test
- > target
- > .gitignore
- HELP.md
- mvnw
- mvnw.cmd
- pom.xml
- README.md

## ProdutoModelo.java X

src &gt; main &gt; java &gt; br &gt; com &gt; api &gt; produtos &gt; modelo &gt; ProdutoModelo.java &gt; 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
```



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 '127.0.0.1@3306 8.0.25'. The 'spring\_react' database is selected, showing a table 'produtos' with 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:

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

```
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,  
12     }  
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

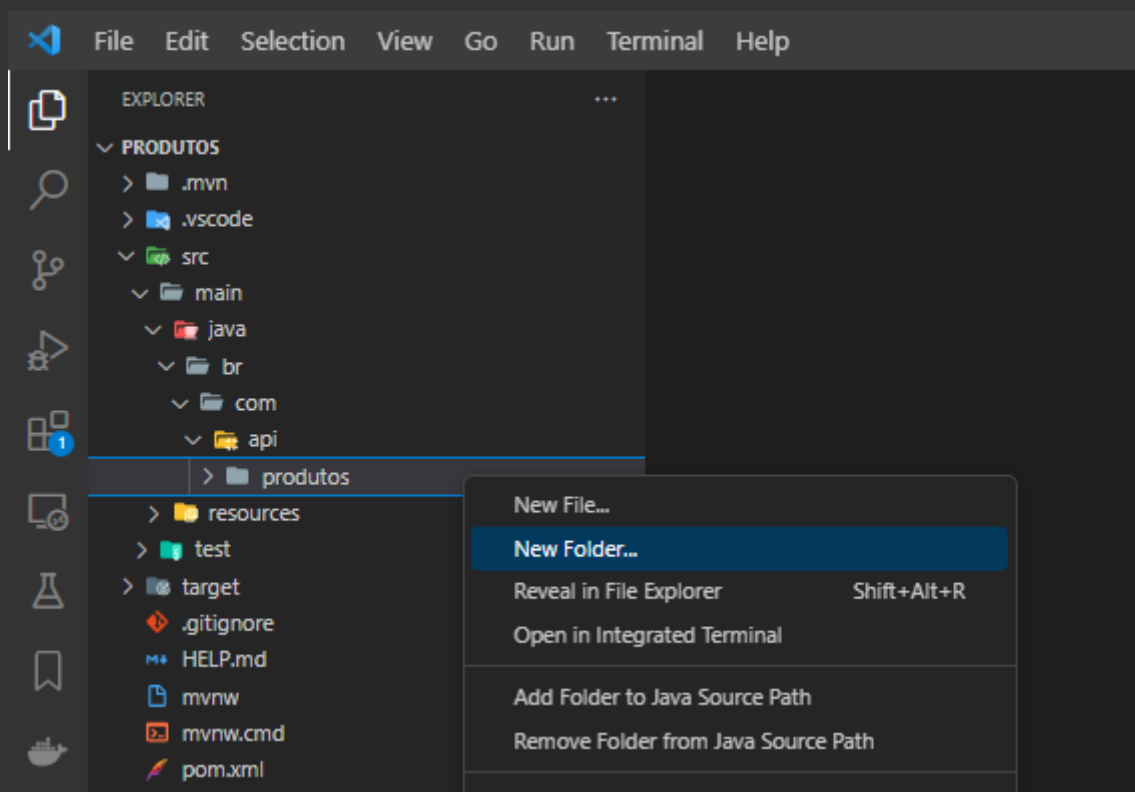
```
2023-01-30T14:20:41.814-03:00 INFO 12124 --- [ restartedMain] j.LocalContainerEntityManagerFact
ctory for persistence unit 'default'
2023-01-30T14:20:41.935-03:00 WARN 12124 --- [ restartedMain] l.naBaseConfiguration$lnaWebConfie
```

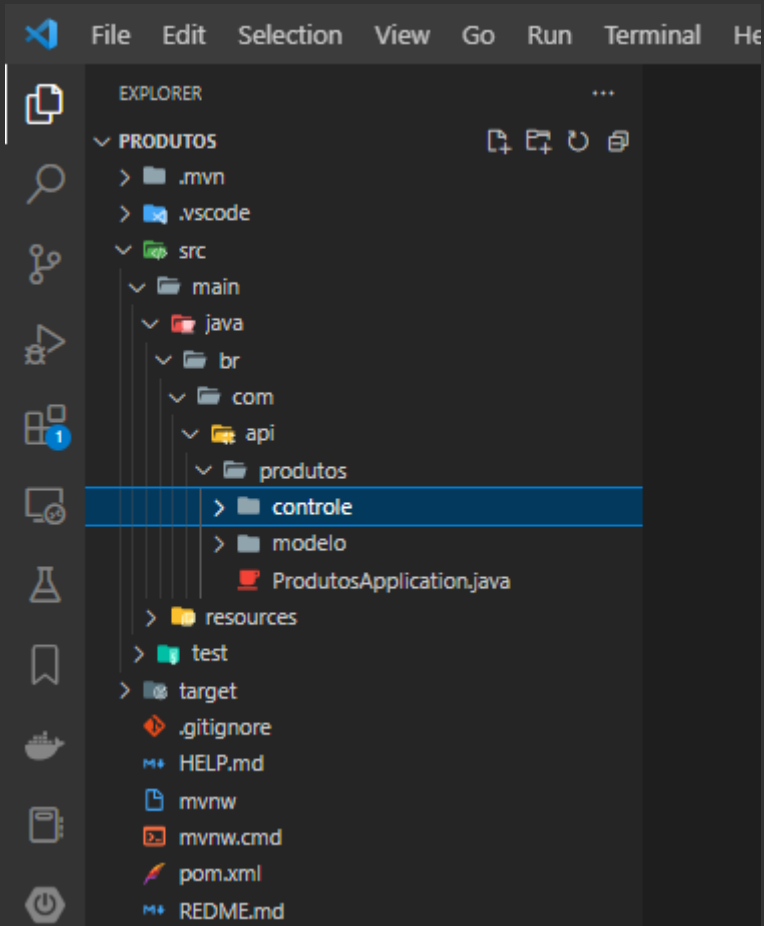
PARE DE RODAR O PROJETO

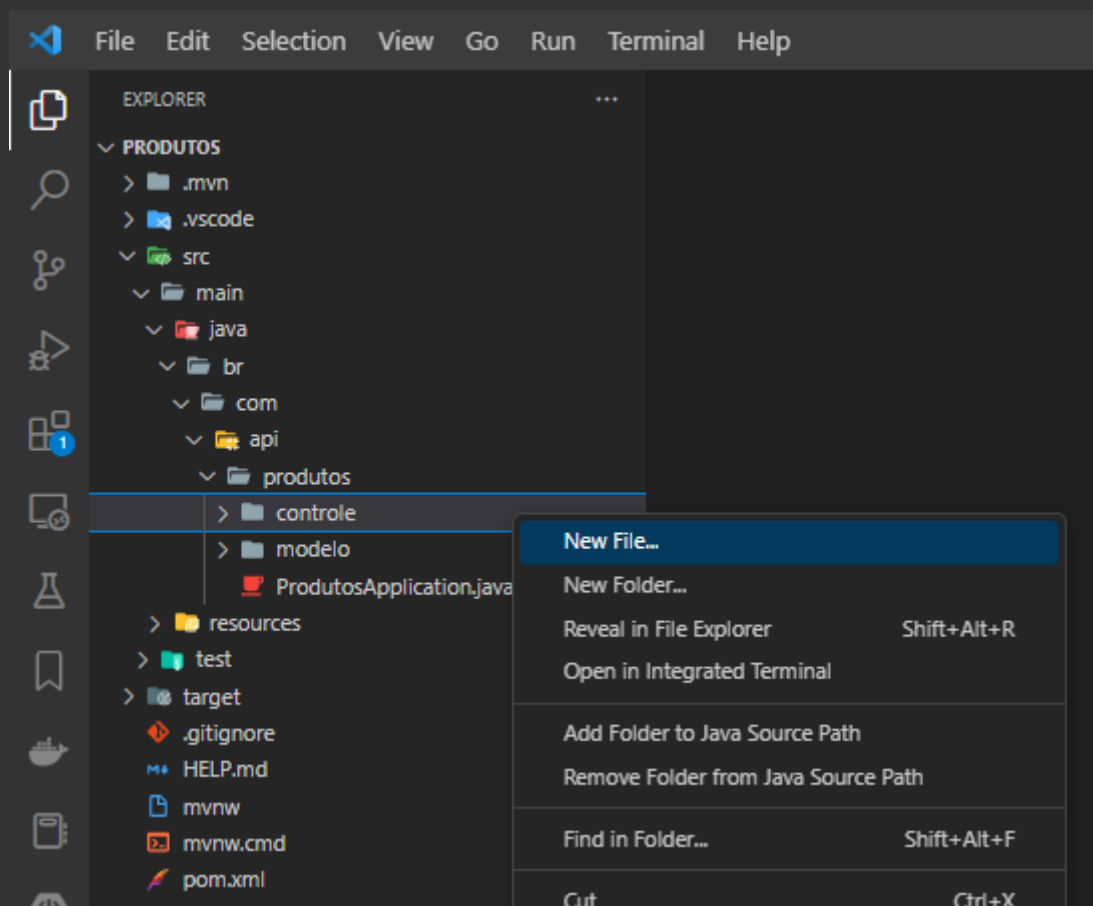
```
PROBLEMS  OUTPUT  TERMINAL
▼ TERMINAL  Run: ProdutosApplication + ▾ □ ☒ ▼ DI

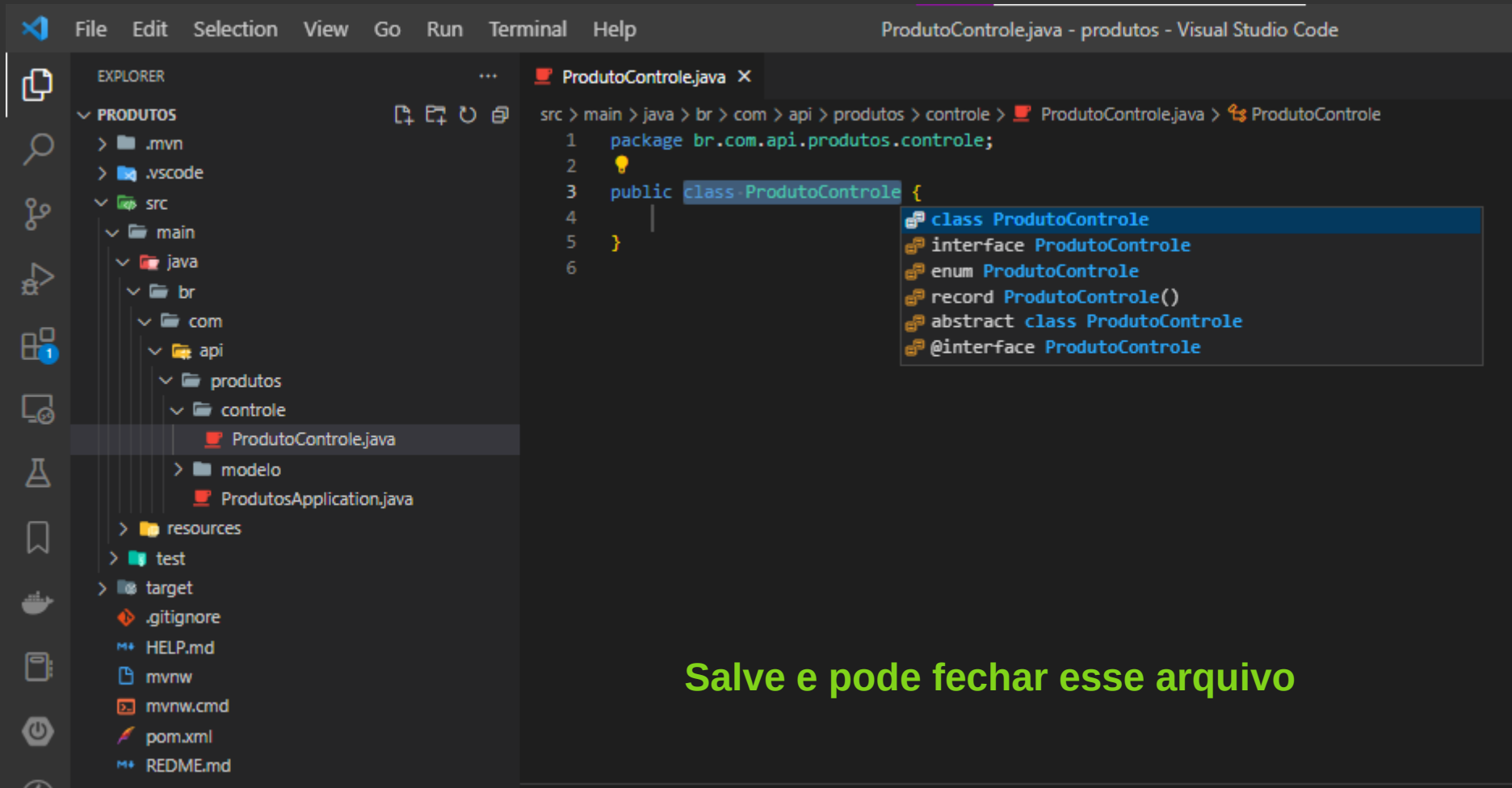
2023-01-30T14:20:41.814-03:00  INFO 12124 --- [ restartedMain] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persistence unit 'default'
2023-01-30T14:20:41.935-03:00  WARN 12124 --- [ restartedMain] JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view 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> 
```

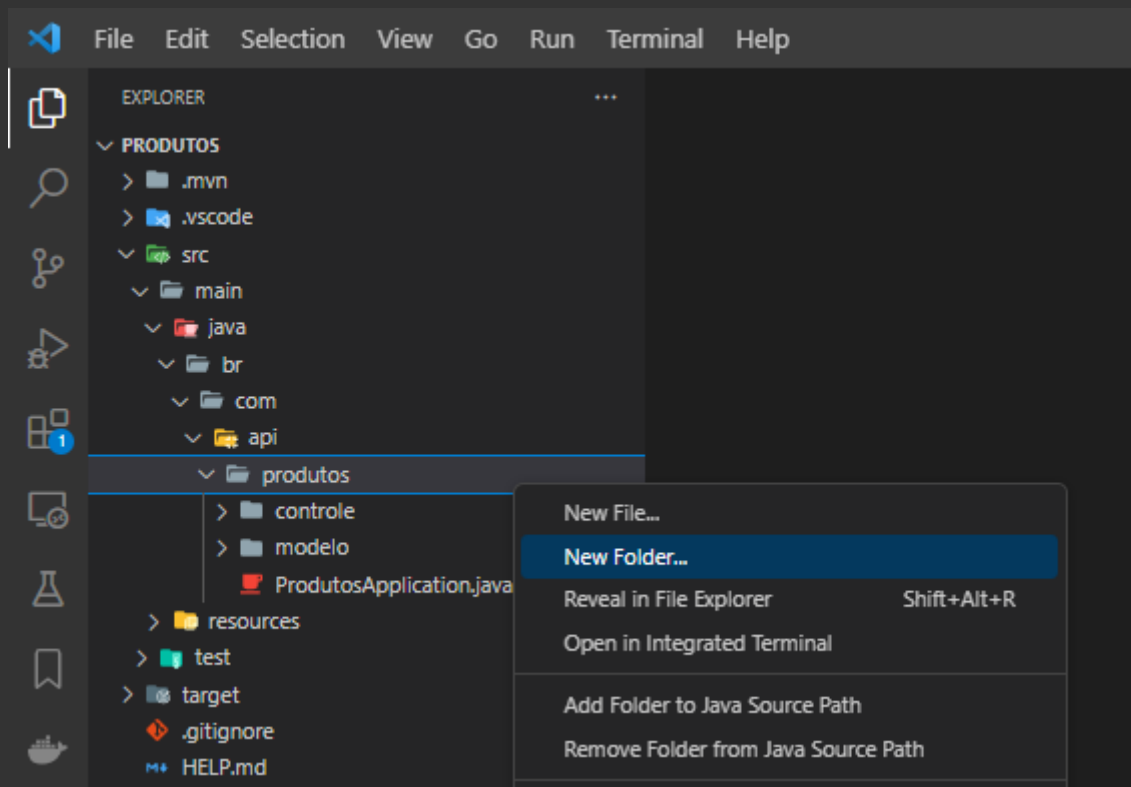
**OU DIGITE CTRL + C  
NO TERMINAL**



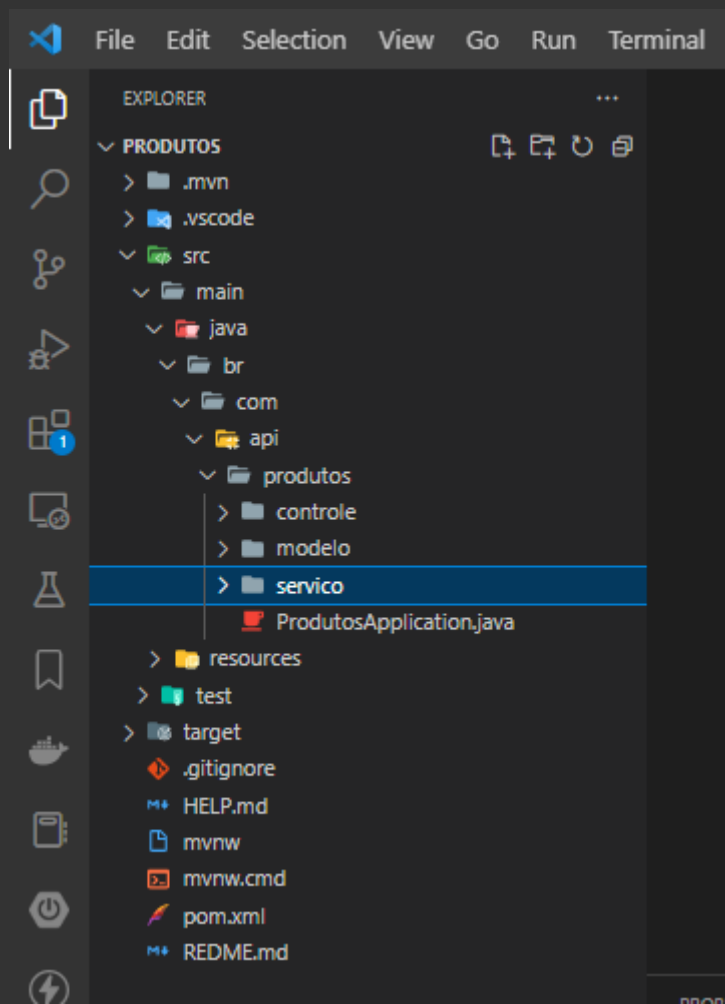


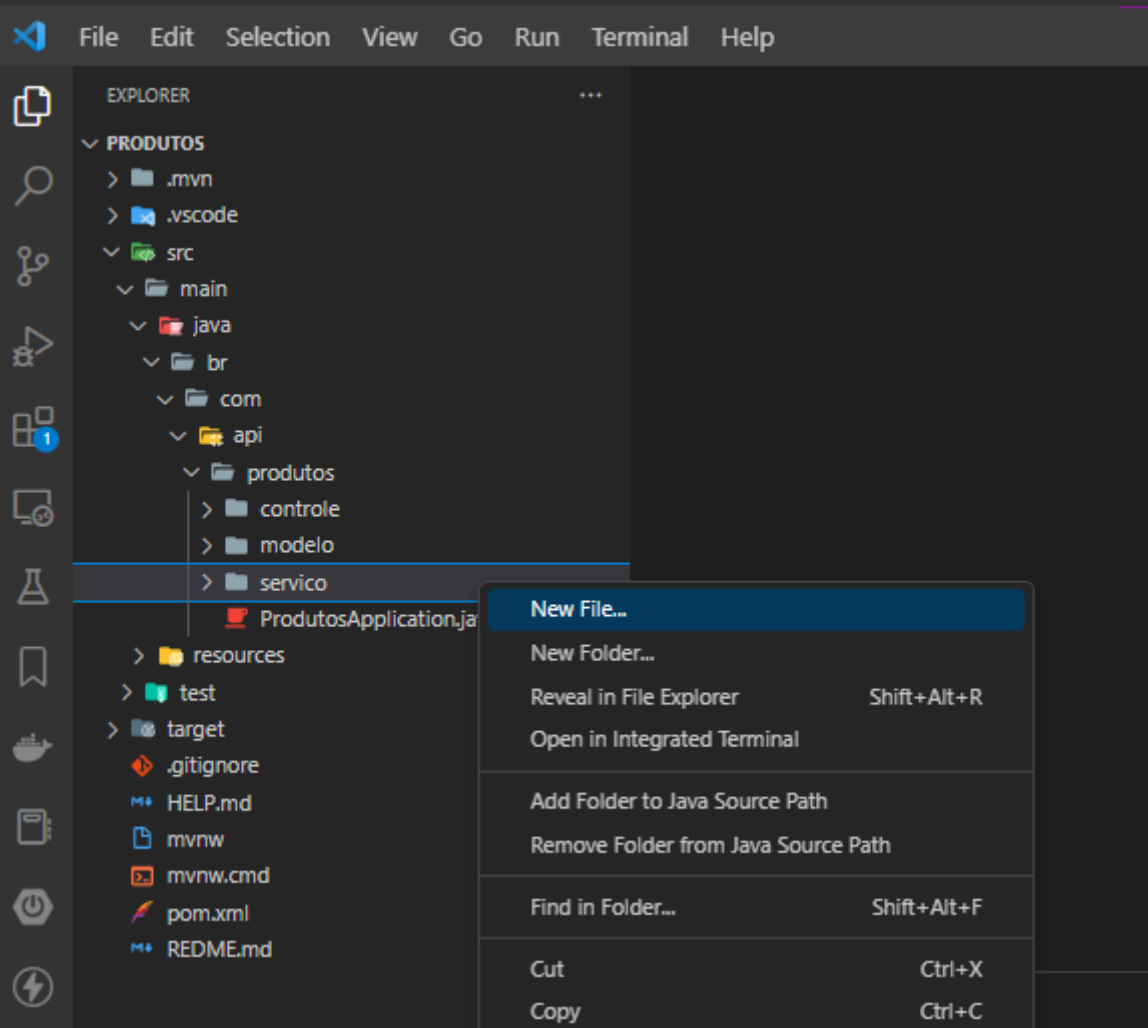


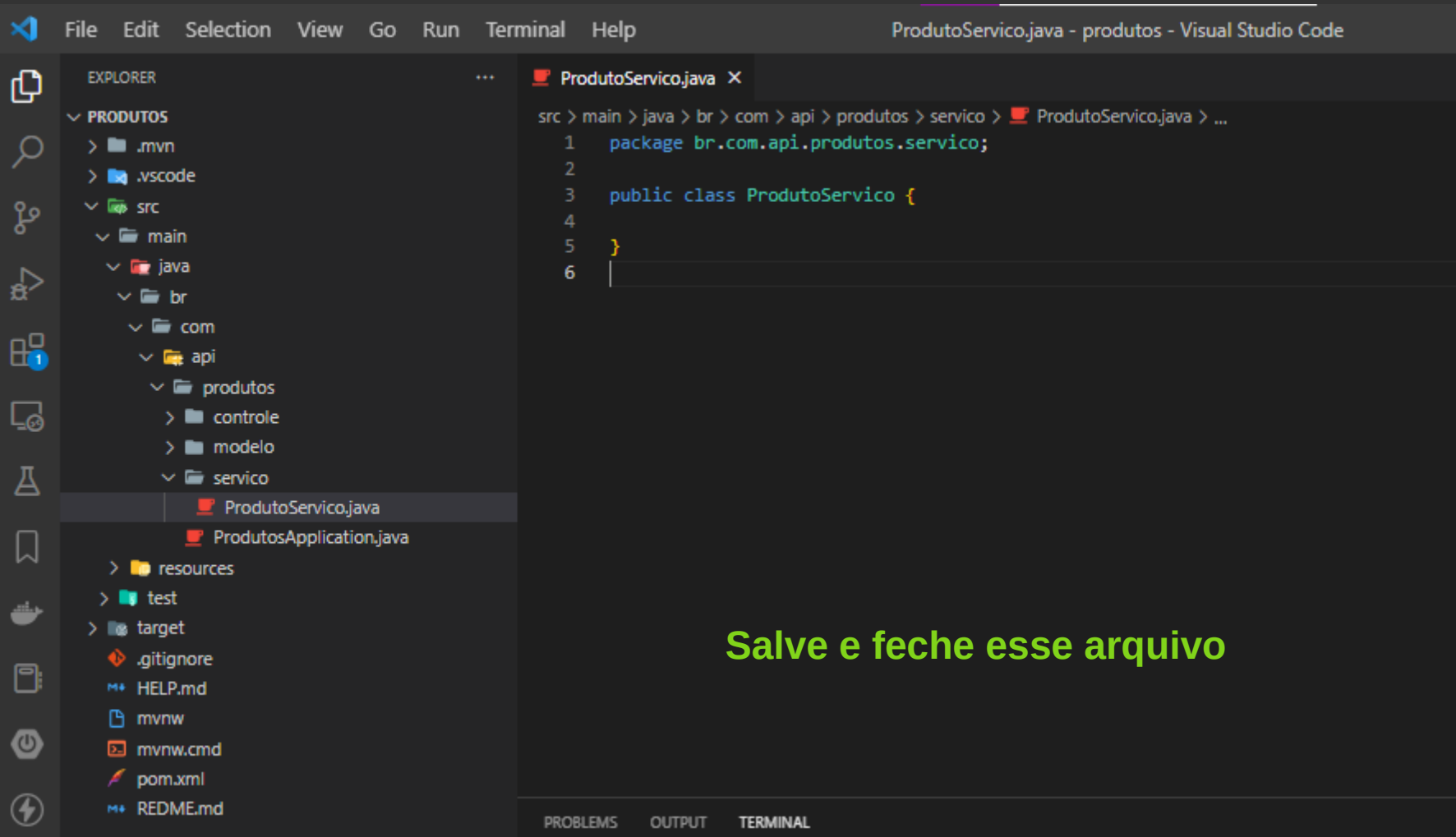


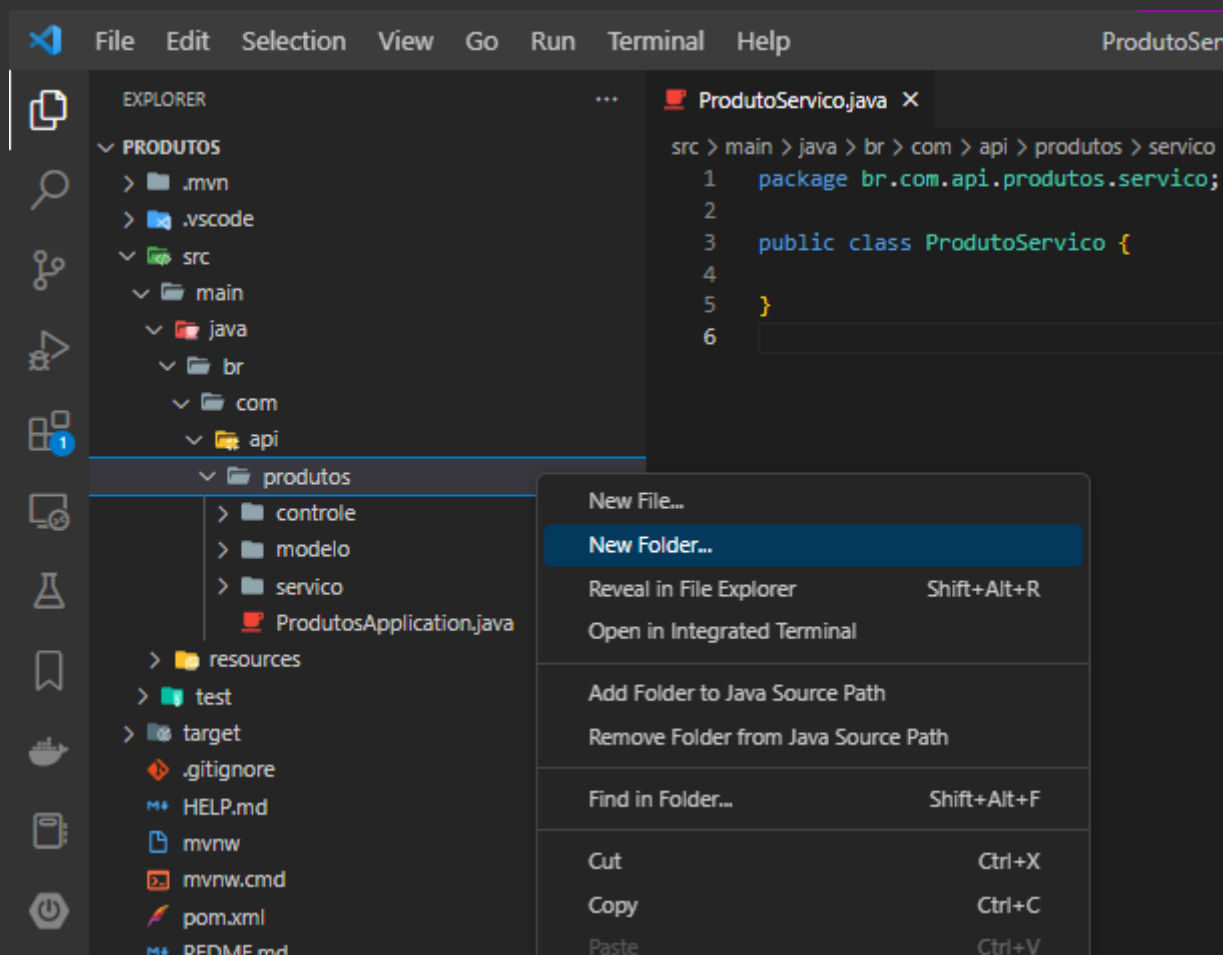


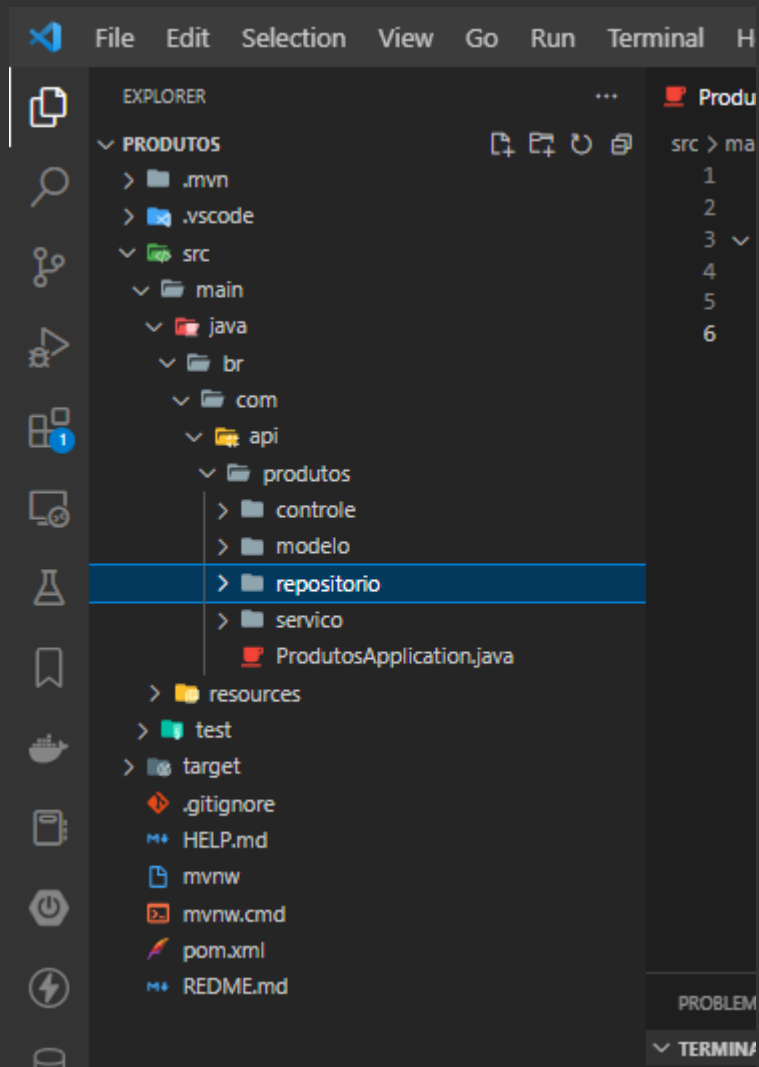


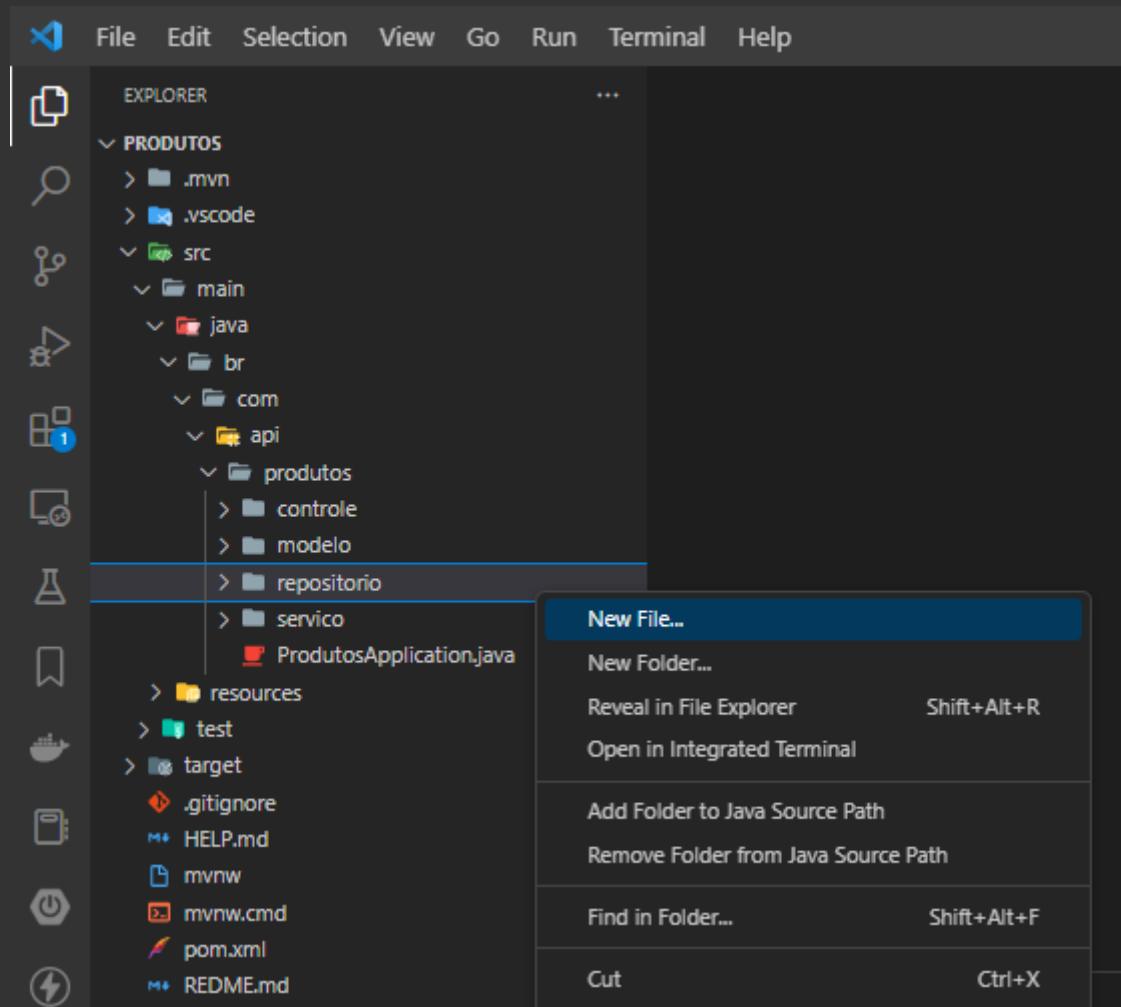


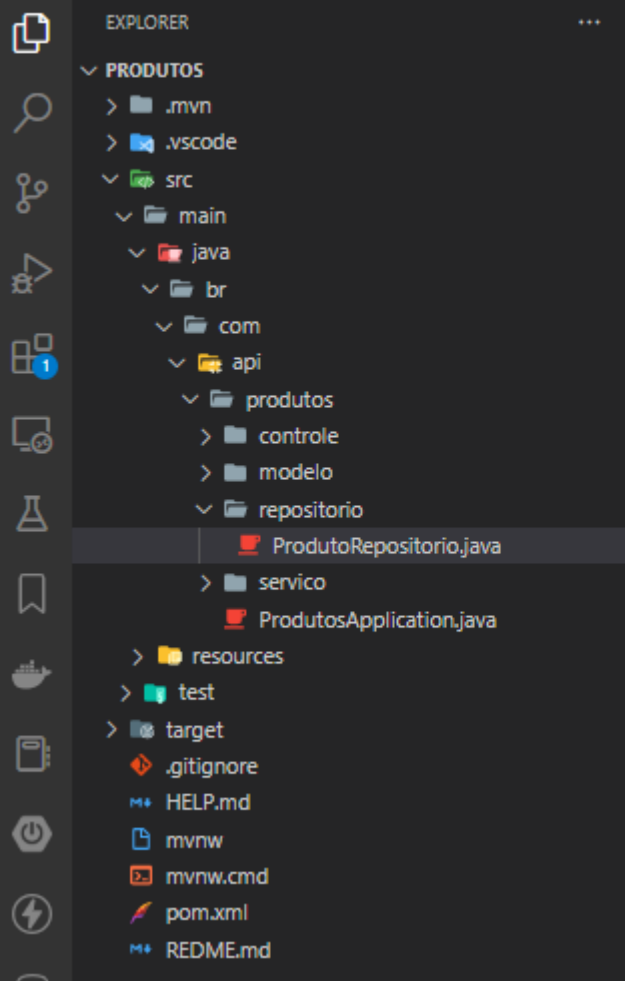












ProdutoRepositorio.java X

src &gt; main &gt; java &gt; br &gt; com &gt; api &gt; produtos &gt; repositorio &gt; ProdutoRepositorio.java &gt; ...

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

PROBLEMS OUTPUT TERMINAL

✓ TERMINAL

File Edit Selection View Go Run Terminal Help

ProdutoRepositorio.java - produtos - Visual Studio Code

EXPLORER

PRODUTOS

.mvn

.vscode

src

main

java

br

com

api

produtos

controle

modelo

repositorio

ProdutoRepositorio.java

servico

ProdutosApplication.java

resources

test

target

.gitignore

HELP.md

mvnw

mvnw.cmd

pom.xml

README.md

ProdutoRepositorio.java X

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

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

2

3 public interface ProdutoRepositorio {

4

5 }

6

Substitua class por interface

Pode salvar e fechar

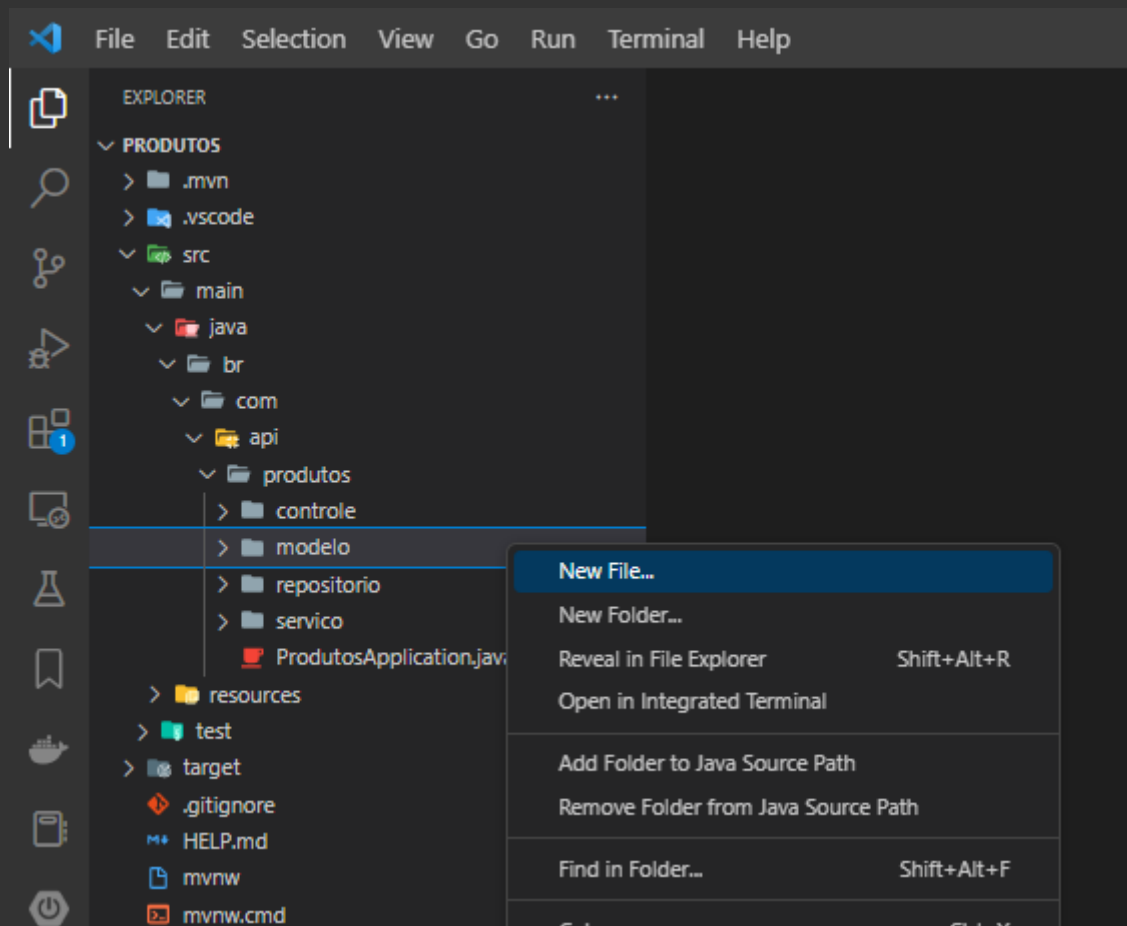
PROBLEMS

OUTPUT

TERMINAL

TERMINAL







EXPLORER

▼ PRODUTOS

&gt; .mvn

&gt; .vscode

▼ src

▼ main

▼ java

▼ br

▼ com

▼ api

▼ produtos

&gt; controle

▼ modelo

ProdutoModelo.java

RespostaModelo.java

&gt; repositorio

&gt; servico

ProdutosApplication.java

&gt; resources

&gt; test

&gt; target

.gitignore

HELP.md

mvnw

mvnw.cmd

pom.xml

README.md

RespostaModelo.java X

src &gt; main &gt; java &gt; br &gt; com &gt; api &gt; produtos &gt; modelo &gt; RespostaModelo.java &gt; ...

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

2

3 public class RespostaModelo {

4

5 }

6 |

Salve e pode fechar

PROBLEMS

OUTPUT

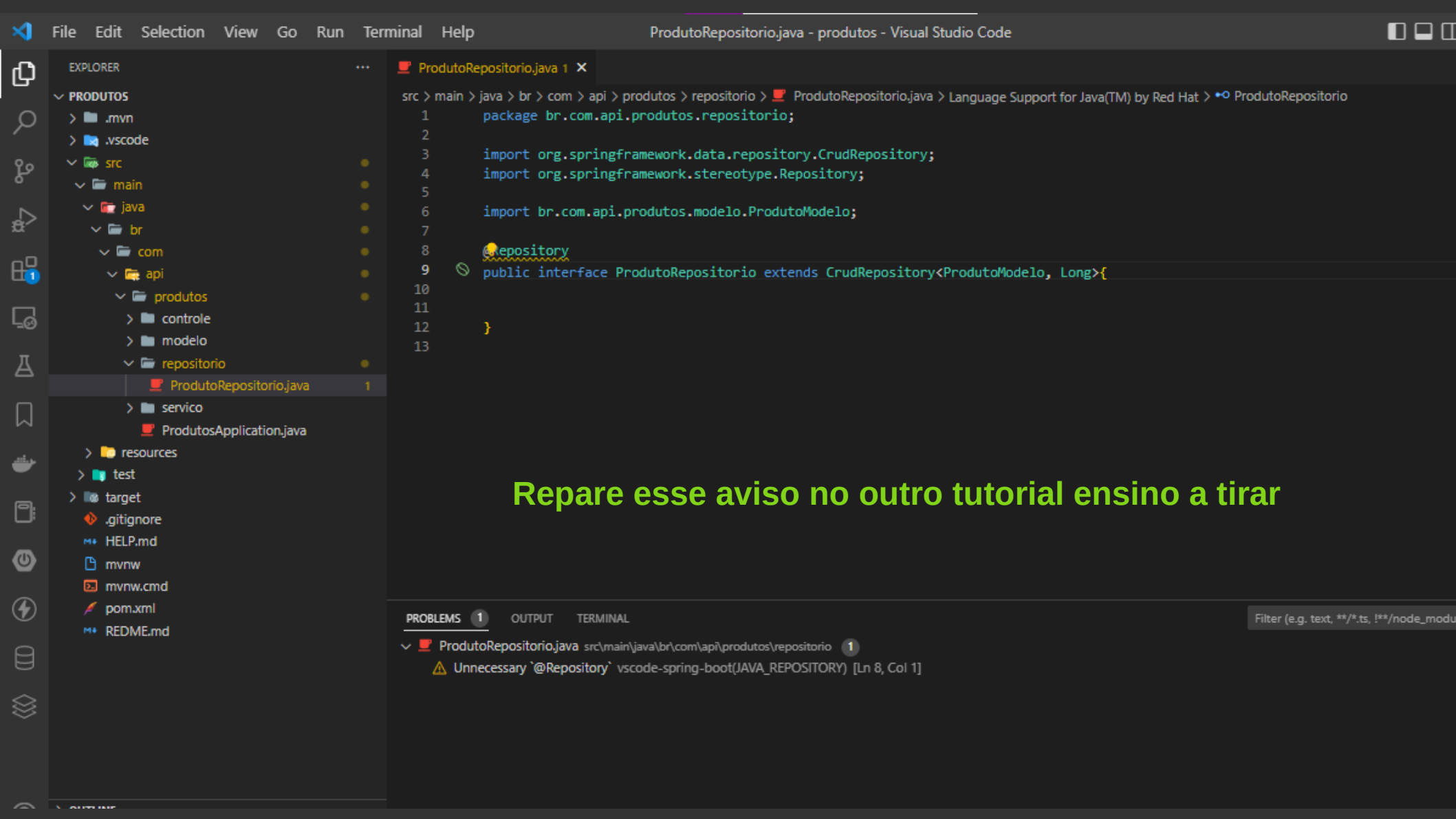
TERMINAL

▼ TERMINAL

port 35729

#5

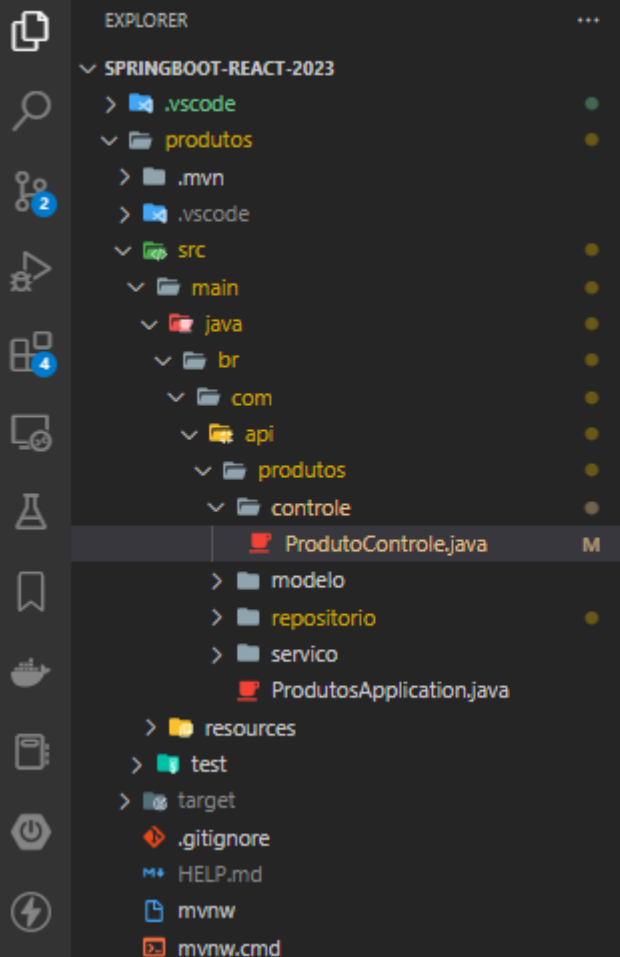
## CONFIGURANDO O REPOSITORIO



Repare esse aviso no outro tutorial ensino a tirar

#6

**CONFIGURANDO CONTROLE**



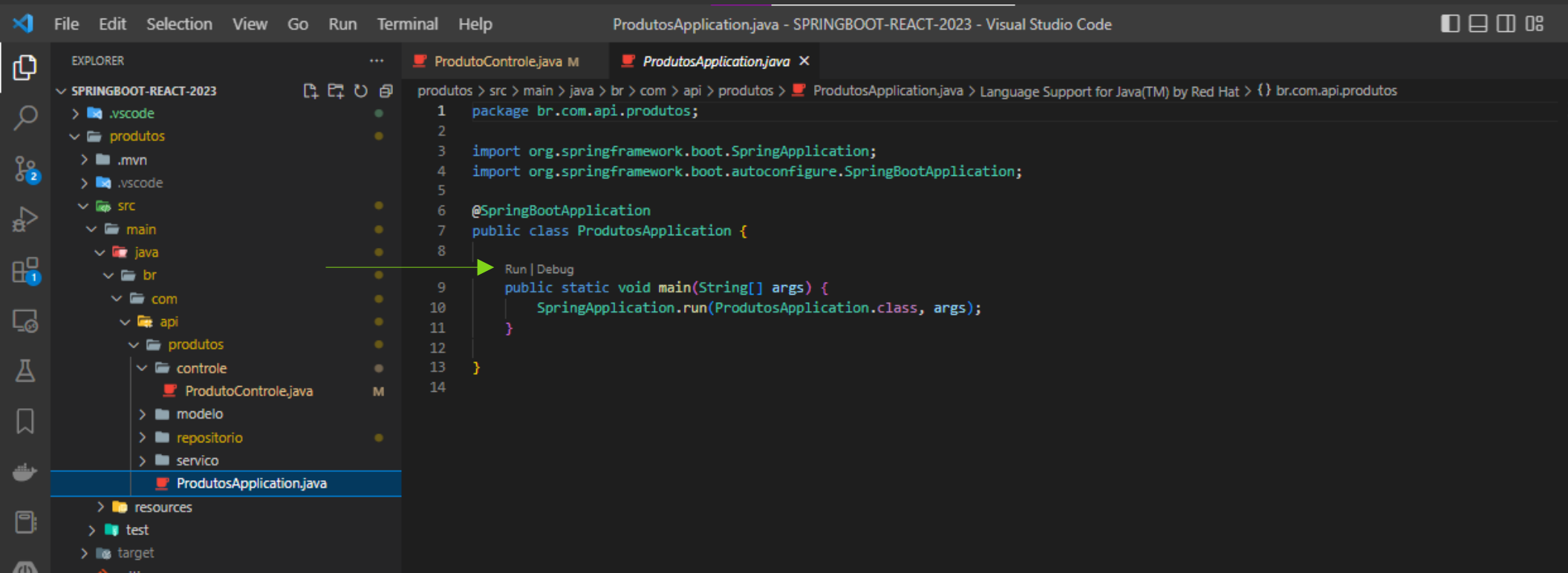
ProdutoControle.java M X

produtos > src > main > java > br > com > api > produtos > controle > ProdutoControle.java > ...

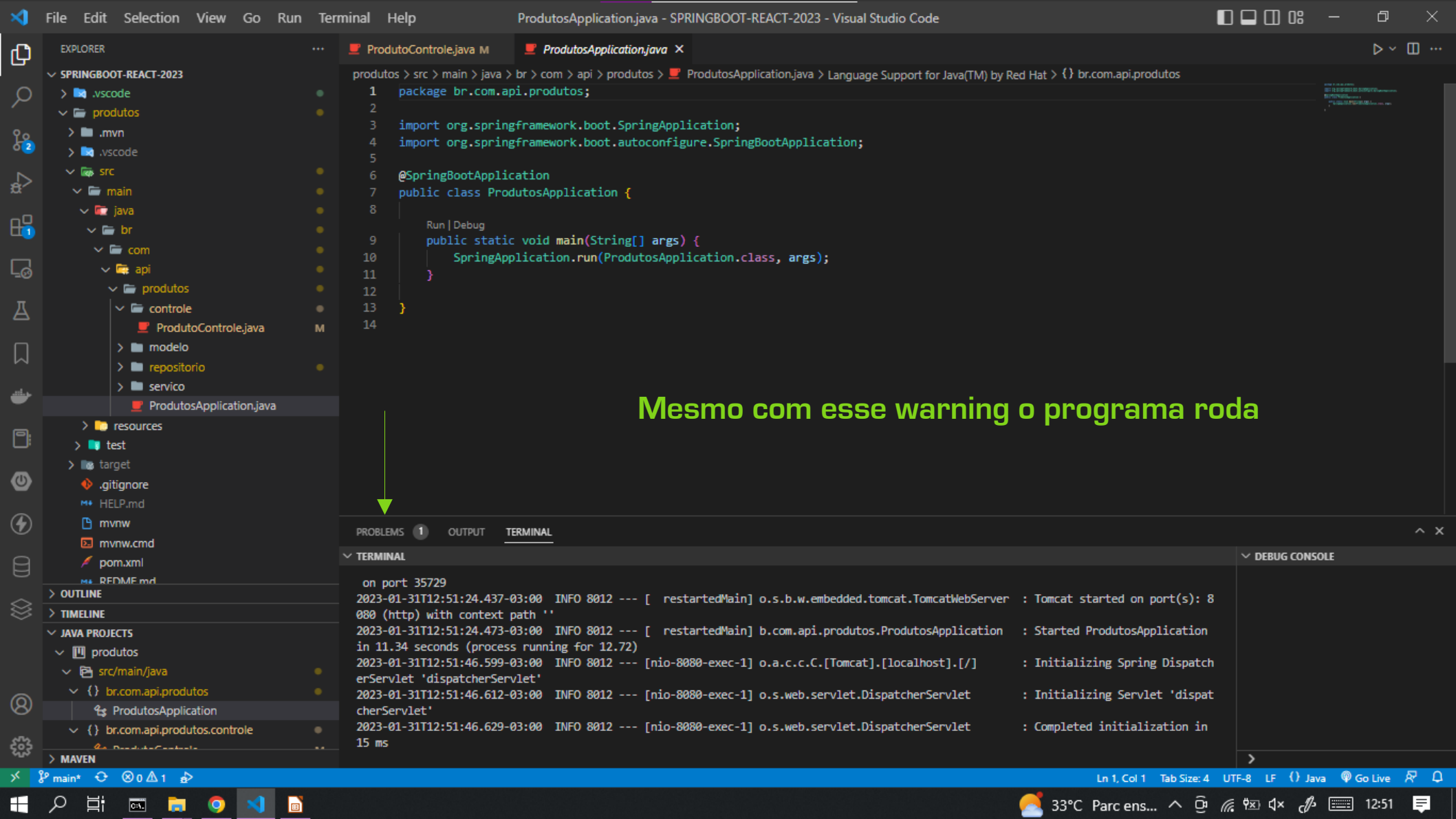
```

1  package br.com.api.produtos.controle;
2
3  import org.springframework.web.bind.annotation.GetMapping;
4  import org.springframework.web.bind.annotation.RestController;
5
6  @RestController
7  public class ProdutoControle {
8
9      // CRIANDO ROTAS
10     @GetMapping("/")
11     public String rota(){
12         return "API de produtos funcionando!";
13     }
14
15 }
16

```

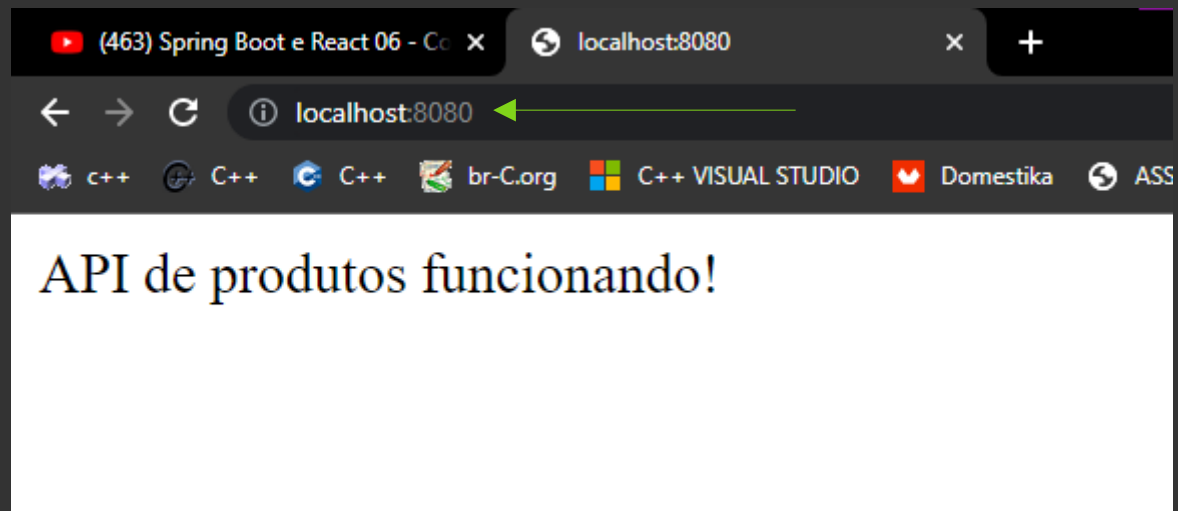


Rode o projeto pra testar



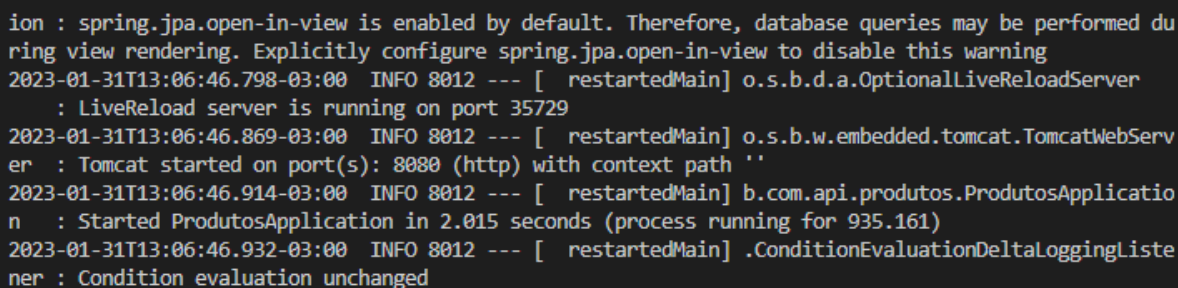
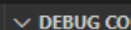
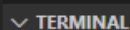
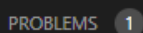
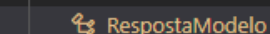
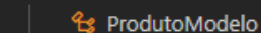
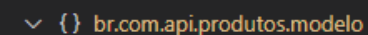
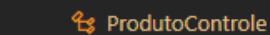
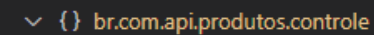
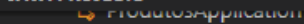
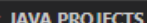
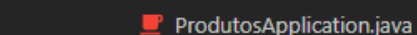
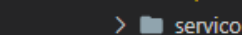
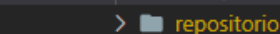
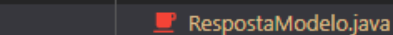
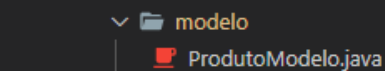
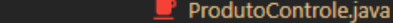
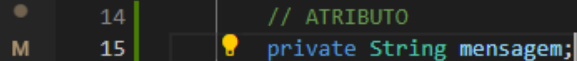
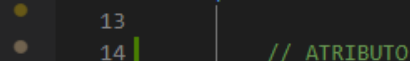
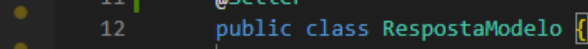
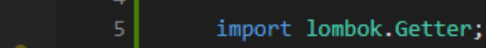
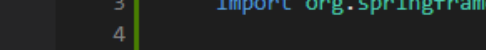
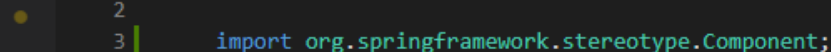
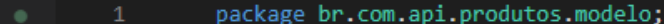
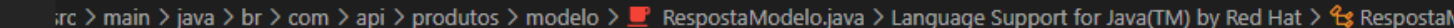
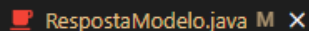
Mesmo com esse warning o programa roda





## #7 MODELO PARA VALIDAR REQUISIÇÕES

**DICA CTRL + PARA DAR ZOOM NO VS CODE E CTRL - PARA MINIMIZAR ZOOM**



## #8 SERVIÇO PARA LISTAR PRODUTOS

FileEditSelectionViewGoRunTerminalHelp

ProdutoServico.java - SPRINGBOOT-REACT-2023 - Visual Studio Code

EXPLORER

SPRINGBOOT-REACT-2023

.vscode

produtos

.mvn

.vscode

src

main

java

br

com

api

produtos

controle

ProdutoControle.java

modelo

repositorio

servico

ProdutoServico.java

ProdutosApplication.java

resources

OUTLINE

TIMELINE

JAVA PROJECTS

br.com.api.produtos.modelo

ProdutoModelo

RespostaModelo

br.com.api.produtos.repositorio

br.com.api.produtos.servico

ProdutoServico

MAVEN

PROBLEMS1

OUTPUT

TERMINAL

DEBUG CONSOLE

ProdutoControle.java M

RespostaModelo.java M

ProdutoServico.java M X

produtos > src > main > java > br > com > api > produtos > servico > ProdutoServico.java > ...

```
1 package br.com.api.produtos.servico;
2
3 import org.springframework.beans.factory.annotation.Autowired;
4 import org.springframework.stereotype.Service;
5
6 import br.com.api.produtos.modelo.ProdutoModelo;
7 import br.com.api.produtos.repositorio.ProdutoRepositorio;
8
9 @Service
10 public class ProdutoServico {
11
12     @Autowired
13     private ProdutoRepositorio pr;
14
15     // METODO PARA LISTAR TODOS OS PRODUTOS
16     public Iterable<ProdutoModelo> listar(){
17         return pr.findAll();
18     }
19 }
20
```

iew rendering. Explicitly configure spring.jpa.open-in-view to disable this warning

2023-01-31T13:20:12.719-03:00 INFO 8012 --- [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on port 35729

2023-01-31T13:20:12.751-03:00 INFO 8012 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path ''

2023-01-31T13:20:12.775-03:00 INFO 8012 --- [ restartedMain] b.com.api.produtos.ProdutosApplication : Started ProdutosApplication in 1.866 seconds (process running for 1741.021)

2023-01-31T13:20:12.791-03:00 INFO 8012 --- [ restartedMain] .ConditionEvaluationDeltaLoggingListener : Condition evaluation unchanged

Ln 20, Col 1

Spaces: 4

UTF-8

CRLF

{}

Java

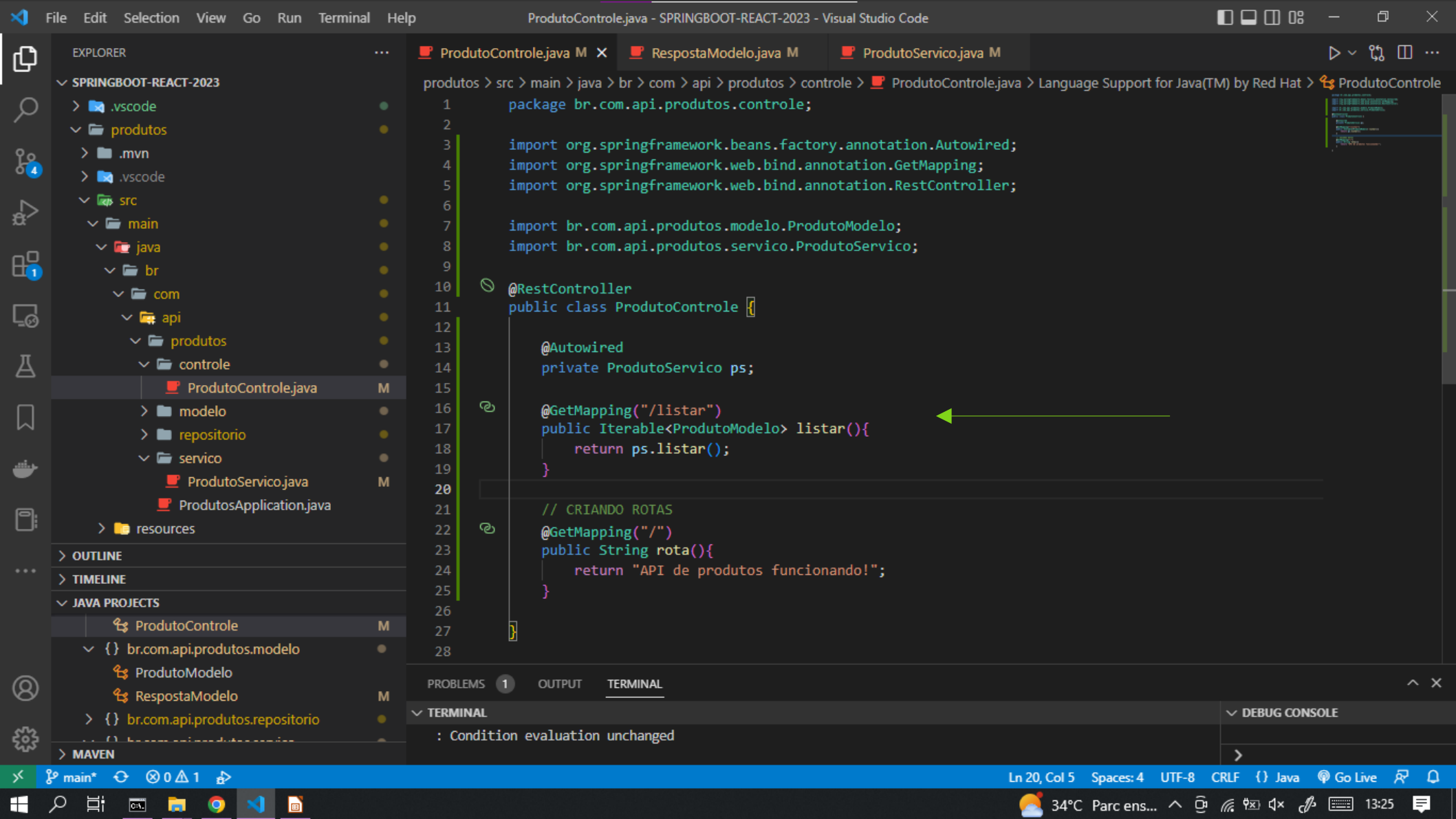
Go Live

34°C

Parc ens...

13:20

## #9 ROTA PARA PRODUTOS





File Edit Selection View Go Run Terminal Help

ProdutosApplication.java - SPRINGBOOT-REACT-2023 - Visual Studio Code

EXPLORER

- SPRINGBOOT-REACT-2023
  - .vscode
  - produtos
    - .mvn
    - .vscode
    - src
      - main
        - java
          - br
            - com
              - api
                - produtos
                  - controle
                    - ProdutoControle.java
                  - modelo
                  - repositorio
                  - servico
                    - ProdutoServico.java
                  - ProdutosApplication.java

resources

OUTLINE

TIMELINE

JAVA PROJECTS

- ProdutosApplication
- br.com.api.produtos.controle

ProdutoControle.java M

RespostaModelo.java M

ProdutoServico.java M

produtos > src > main > java > br > com > api > produtos > ProdutosApplication.java > Language Support for Java(TM) by Red Hat

```
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
```

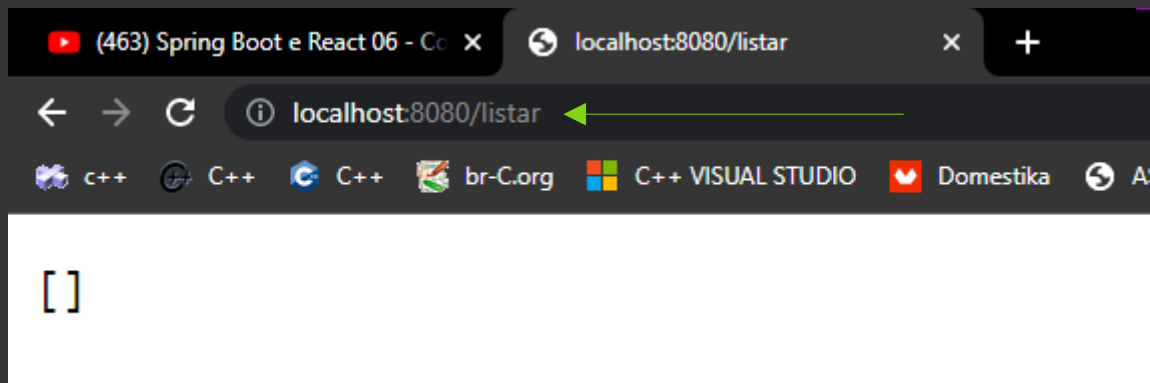
Run | Debug

PROBLEMS 1 OUTPUT TERMINAL

TERMINAL

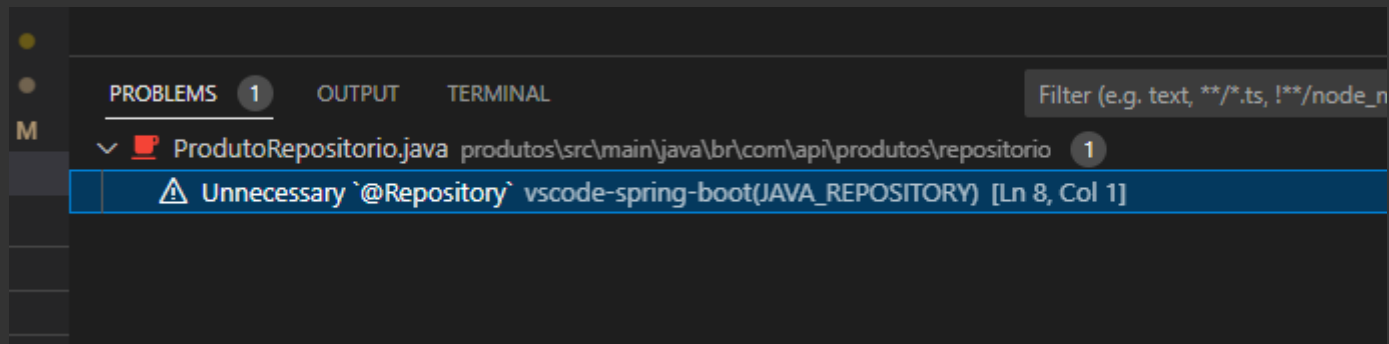
: Condition evaluation unchanged

Depois de salvar de run



Isso esta certo aparece assim porque a tabela não tem nenhum registro

## #10 SERVIÇO PARA CADASTRAR PRODUTOS



O ERRO ATE AQUI É ESSE E ESTA TUDO RODANDO



FileEditSelectionViewGoRunTerminalHelp

ProdutoServico.java - SPRINGBOOT-REACT-2023 - Visual Studio Code

EXPLORER

SPRINGBOOT-REACT-2023

.vscode

produtos

.mvn

.vscode

src

main

java

br

com

api

produtos

controle

ProdutoControle.java

modelo

repositorio

servico

ProdutoServico.java

ProdutosApplication.java

resources

OUTLINE

TIMELINE

JAVA PROJECTS

br.com.api.produtos.modelo

ProdutoModelo

RespostaModelo

br.com.api.produtos.repositorio

ProdutoControle.java M

RespostaModelo.java M

ProdutoServico.java M

produtos > src > main > java > br > com > api > produtos > servico > ProdutoServico.java > ...

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

@Autowired

private RespostaModelo rm;

// METODO PARA LISTAR TODOS OS PRODUTOS

public Iterable<ProdutoModelo> listar(){

return pr.findAll();

}

// METODO PARA CADASTRAR PRODUTOS

public ResponseEntity<?> cadastrar(ProdutoModelo pm){

if(pm.getNome().equals("")){

rm.setMensagem(mensagem: "O nome do produto é obrigatorio");

return new ResponseEntity<RespostaModelo>(rm, HttpStatus.BAD\_REQUEST);

}else if(pm.getMarca().equals("")){

rm.setMensagem(mensagem: "O nome da marca é obrigatorio");

return new ResponseEntity<RespostaModelo>(rm, HttpStatus.BAD\_REQUEST);

}else{

return new ResponseEntity<ProdutoModelo>(pr.save(pm), HttpStatus.CREATED);

}

}

}

PROBLEMS 1

OUTPUT

TERMINAL

TERMINAL

DEBUG CONSOLE

2023-01-31T13:43:29.146-03:00 INFO 8012 --- [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer

: LiveReload server is running on port 35729

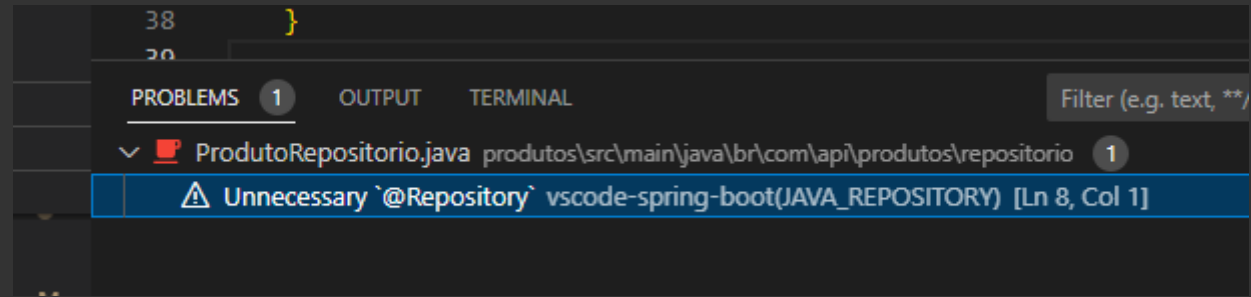
2023-01-31T13:43:29.190-03:00 INFO 8012 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer

: Tomcat started on port(s): 8080 (http) with context path ''

2023-01-31T13:43:29.203-03:00 INFO 8012 --- [ restartedMain] b.com.api.produtos.ProdutosApplication

Started ProdutosApplication in 3.436 seconds (JVM running for 3.436 seconds)

Até aqui ele continua mas roda de boa



## #11 ROTA PARA CADASTRAR PRODUTOS



## EXPLORER

## ▼ SPRINGBOOT-REACT-2023

## ▼ produtos

&gt; .mvn

&gt; .vscode

## ▼ src

## ▼ main

## ▼ java

## ▼ br

## ▼ com

## ▼ api

## ▼ produtos

## ▼ controle

ProdutoControlre.java 2

&gt; modelo

&gt; repositorio

## ▼ service

ProdutoServico.java

ProdutosApplication.java

&gt; resources

&gt; test

&gt; target

&gt; ...

## &gt; OUTLINE

## &gt; TIMELINE

## ▼ JAVA PROJECTS

&gt; br.com.api.produtos

▼ {} br.com.api.produtos.controle

ProdutoControlre 2

a &gt; br &gt; com &gt; api &gt; produtos &gt; controle &gt; ProdutoControlre.java &gt; Language Support for Java(TM) by Red Hat &gt; ProdutoControlre

```
1 package br.com.api.produtos.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.PostMapping;
6 import org.springframework.web.bind.annotation.RestController;
7
8 import br.com.api.produtos.modelo.ProdutoModelo;
9 import br.com.api.produtos.servico.ProdutoServico;
10
11 @RestController
12 public class ProdutoControlre {
13
14     @Autowired
15     private ProdutoServico ps;
16
17     @PostMapping("/cadastrar")
18     public ResponseEntity<?> cadastrar(@RequestBody ProdutoModelo pm) {
19         return ps.cadastrar(pm);
20     }
21
22     @GetMapping("/listar")
```

## PROBLEMS 3 OUTPUT TERMINAL

▼ ProdutoControlre.java produtos\src\main\java\br\com\api\produtos\controle 2

❌ ResponseEntity cannot be resolved to a type Java(16777218) [Ln 18, Col 12]

❌ RequestBody cannot be resolved to a type Java(16777218) [Ln 18, Col 40]

▼ ProdutoRepositorio.java produtos\src\main\java\br\com\api\produtos\repositorio 1

⚠️ Unnecessary '@Repository' vscode-spring-boot(JAVA\_REPOSITORY) [Ln 8, Col 1]

Filter (e.g. text, \*\*/\*.ts, !\*\*/node\_module)

... ProdutoControle.java • RespostaModelo.java ProdutoServico.java README.md

a &gt; br &gt; com &gt; api &gt; produtos &gt; controle &gt; ProdutoControle.java &gt; Language Support for Java(TM) by Red Hat &gt; ⚙️ Produ

```
1 package br.com.api.produtos.controle;
2
3 import org.springframework.beans.factory.annotation.Autowired;
4 import org.springframework.http.ResponseEntity;
5 import org.springframework.web.bind.annotation.GetMapping;
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.api.produtos.modelo.ProdutoModelo;
11 import br.com.api.produtos.servico.ProdutoServico;
12
13 @RestController
14 public class ProdutoControle {
15
16     @Autowired
17     private ProdutoServico ps;
18
19     @PostMapping("/cadastrar")
20     public ResponseEntity<?> cadastrar(@RequestBody ProdutoModelo pm){
21         return ps.cadastrar(pm);
22     }
23 }
```

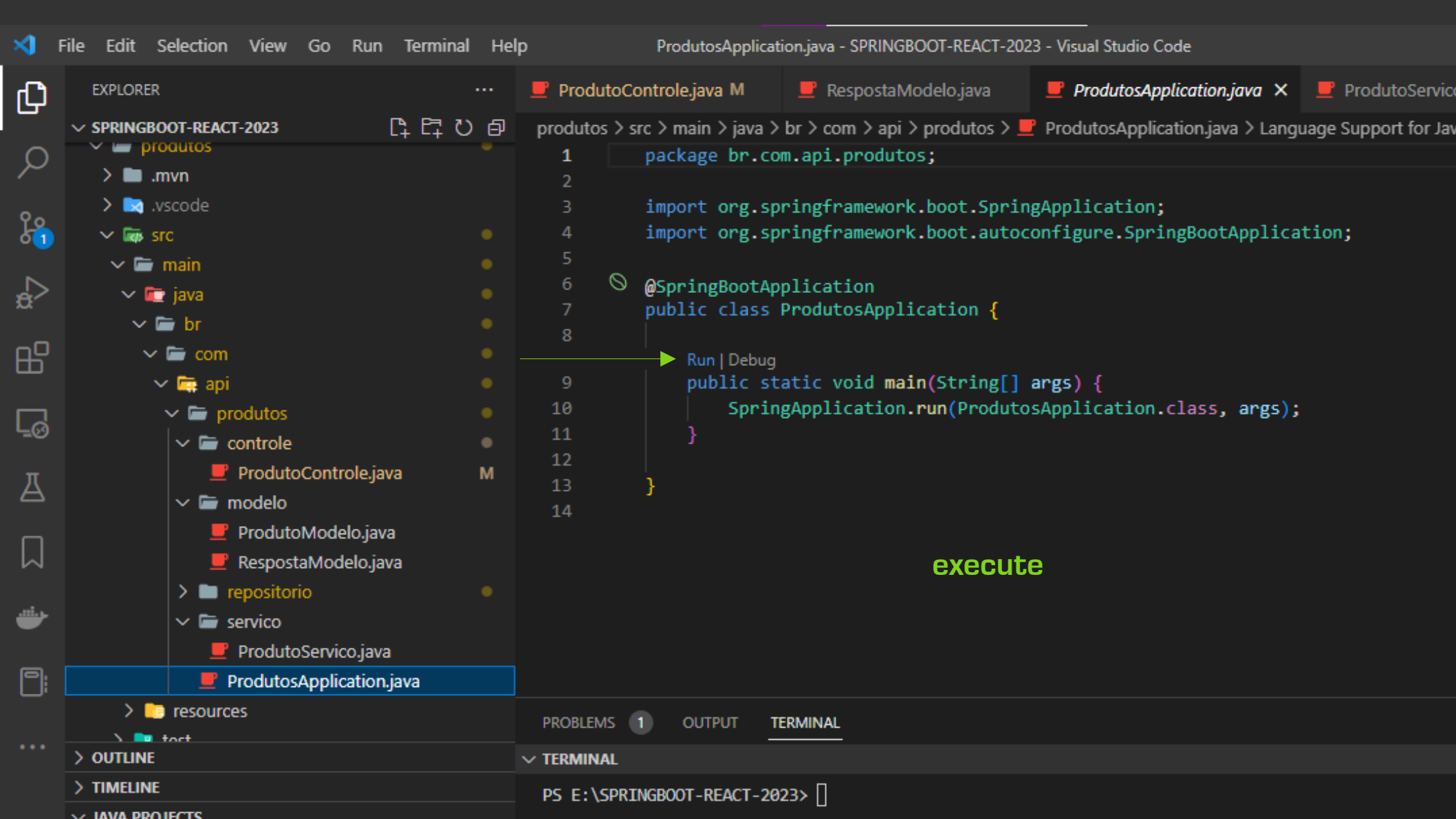
Os erros eram porque  
faltavam os imports

PROBLEMS 1 OUTPUT TERMINAL

Filter (e.g. text, \*\*/\*.ts, !\*\*/n

▼ ProdutoRepositorio.java produtos\src\main\java\br\com\api\produtos\repositorio 1

⚠️ Unnecessary `@Repository` vscode-spring-boot(JAVA\_REPOSITORY) [Ln 8, Col 1]



File Edit Selection View Go Run Terminal Help

ProdutosApplication.java - SPRINGBOOT-REACT-2023 - Visual Studio Code

EXPLORER

SPRINGBOOT-REACT-2023

- produtos
  - .mvn
  - .vscode
  - src
    - main
      - java
        - br
          - com
            - api
              - produtos
                - controle
                  - ProdutoControle.java
                - modelo
                  - ProdutoModelo.java
                  - RespostaModelo.java
                - repositorio
                - servico
                  - ProdutoServico.java
                - ProdutosApplication.java

OUTLINE

TIMELINE

JAVA PROJECTS

- br.com.api.produtos
  - ProdutosApplication
  - br.com.api.produtos.controle
    - ProdutoControle
  - br.com.api.produtos.modelo
    - ProdutoModelo

ProdutoControle.java

ProdutosApplication.java

ProdutoServico.java

README.md

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

```
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

PROBLEMS 1 OUTPUT TERMINAL

TERMINAL

DEBUG CONSOLE

stence unit 'default'

2023-02-01T12:19:24.101-03:00 WARN 5064 --- [ restartedMain] JpaBaseConfig  
uration\$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

2023-02-01T12:19:24.872-03:00 INFO 5064 --- [ restartedMain] o.s.b.d.a.OptionalLiveRe  
loadServer : LiveReload server is running on port 35729

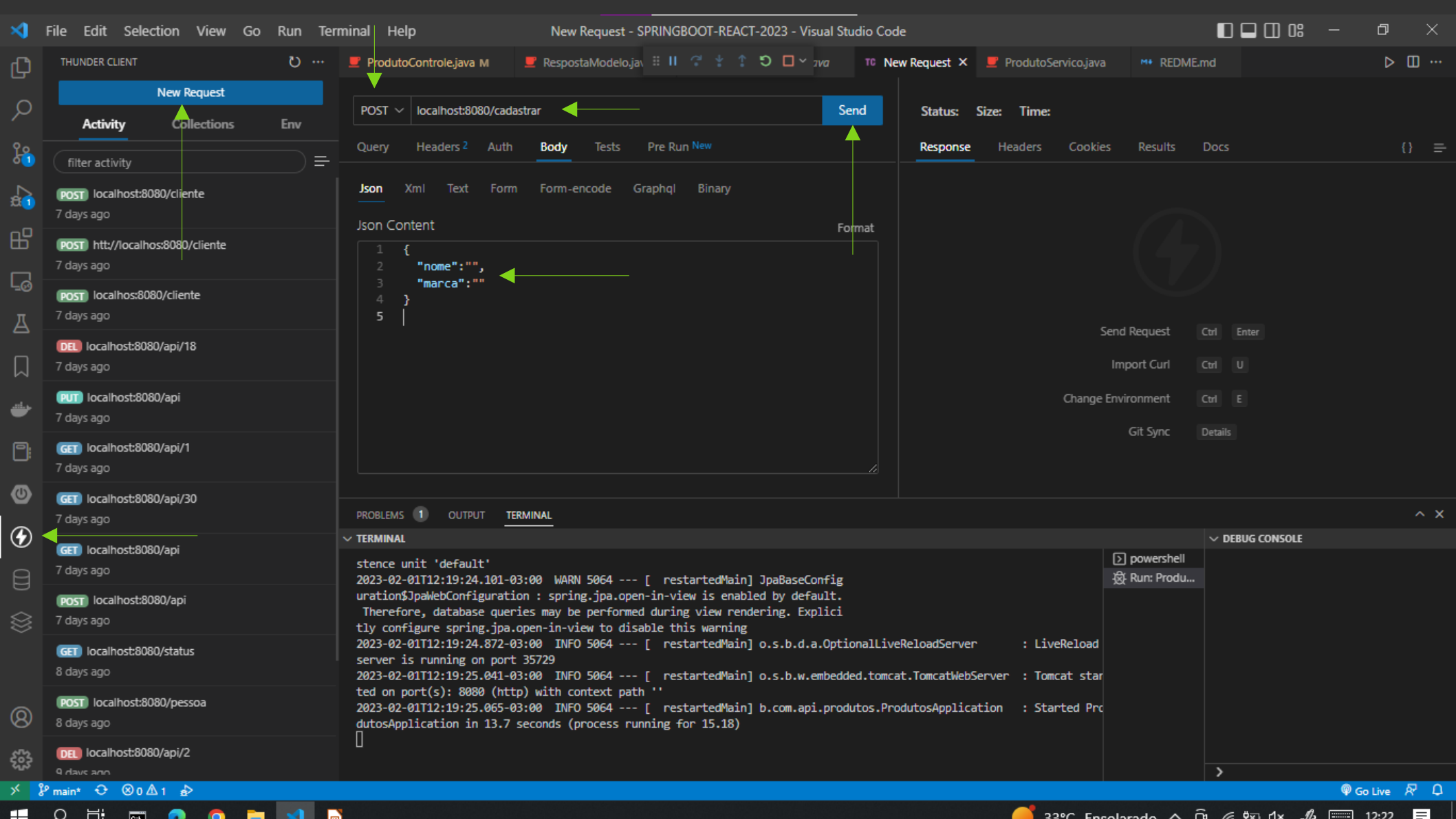
2023-02-01T12:19:25.041-03:00 INFO 5064 --- [ restartedMain] o.s.b.w.embedded.tomcat.  
TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path ''

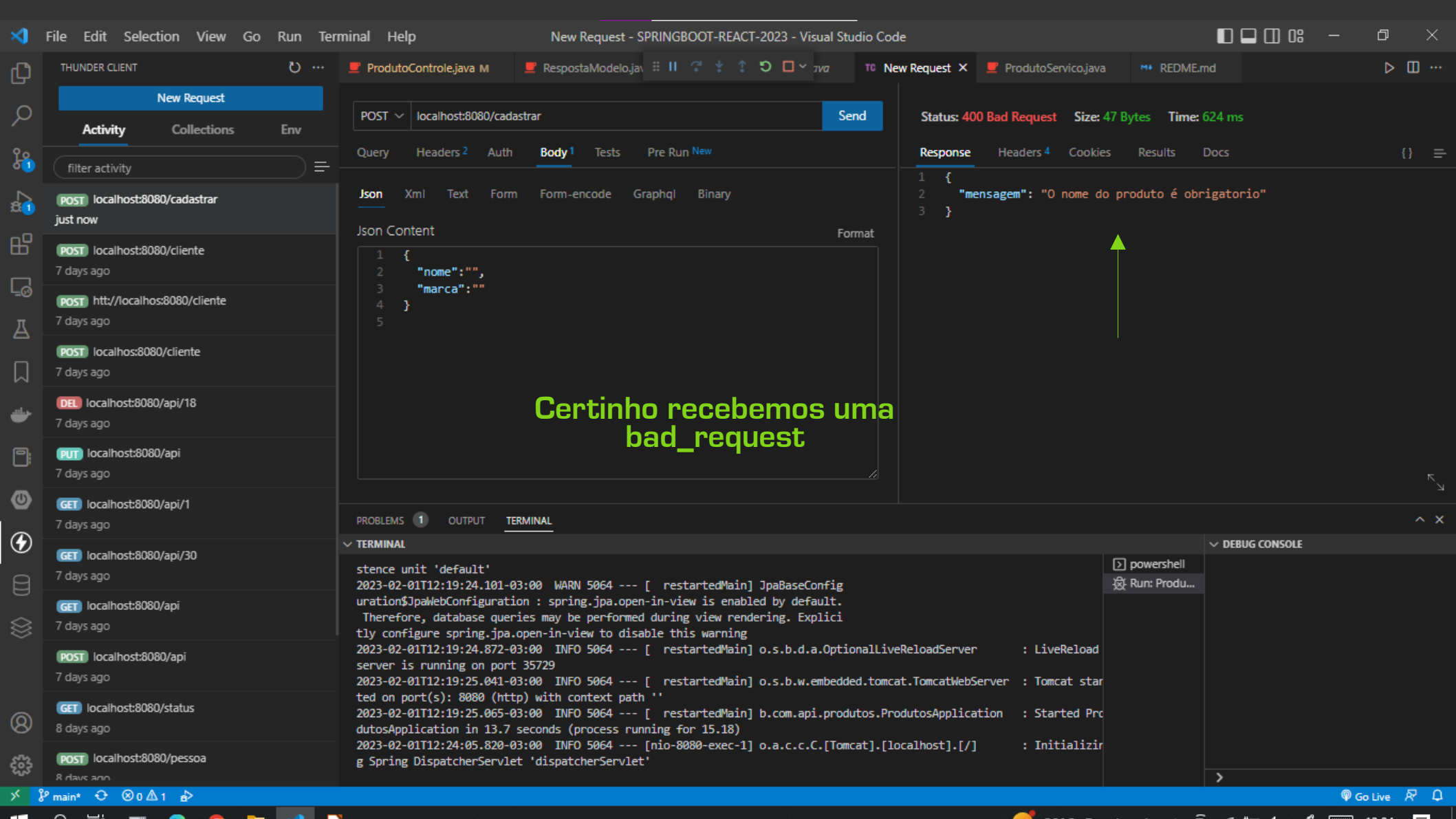
2023-02-01T12:19:25.065-03:00 INFO 5064 --- [ restartedMain] b.com.api.produtos.Produ  
tosApplication : Started ProdutosApplication in 13.7 seconds (process running for 15.  
18)

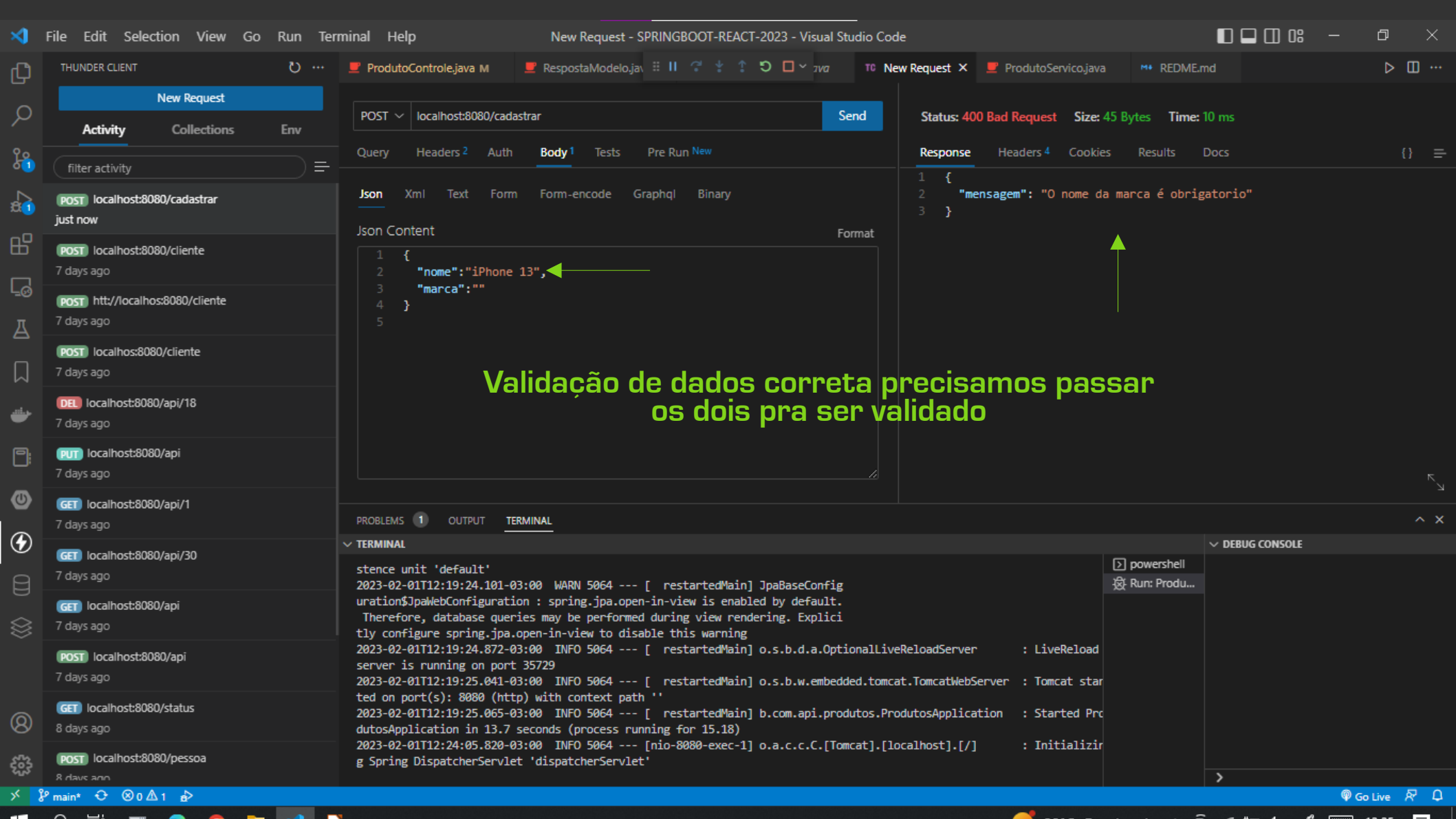
powershell

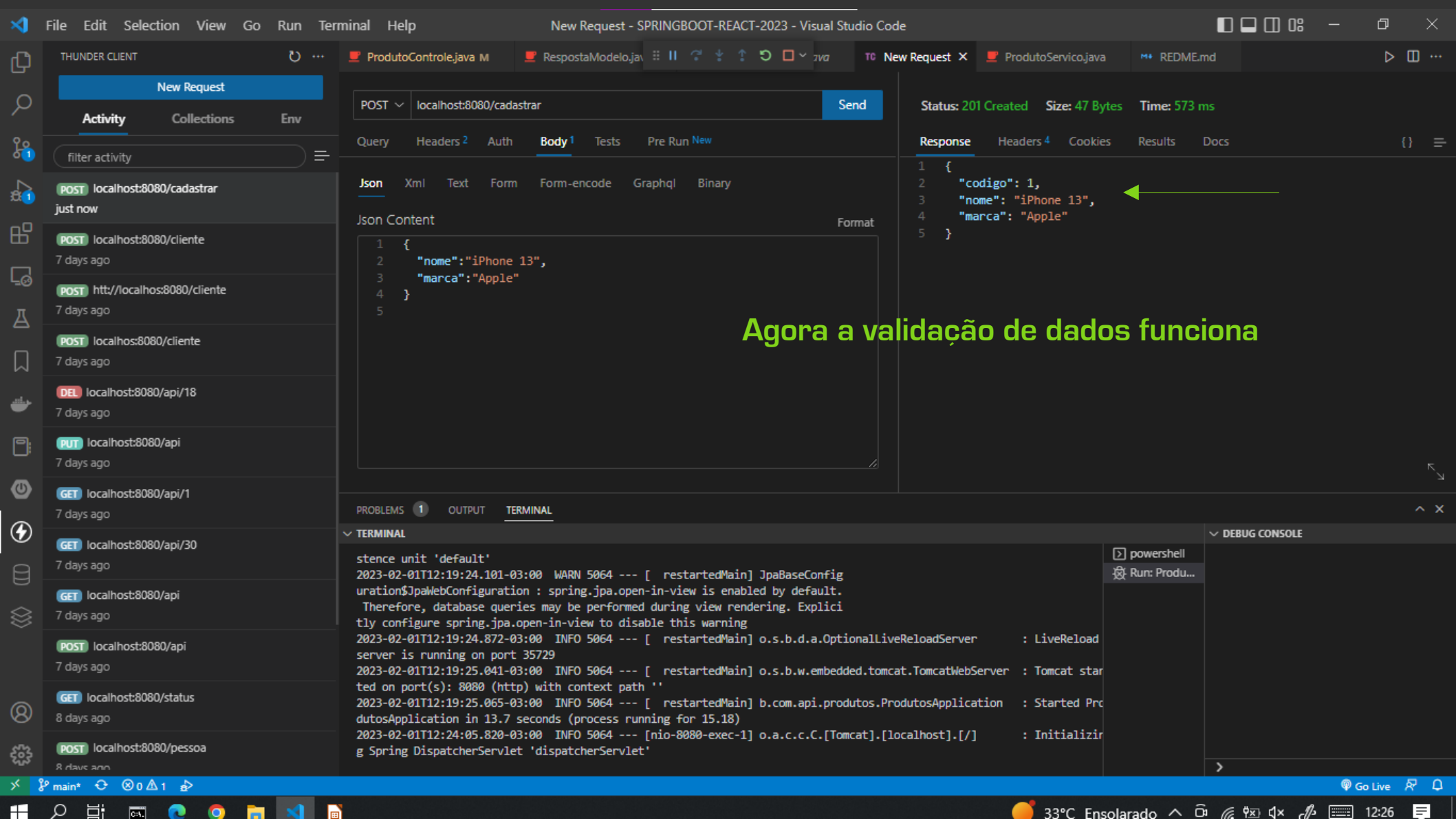
Run: Produ...

Aplicação rodando va no thunderclient





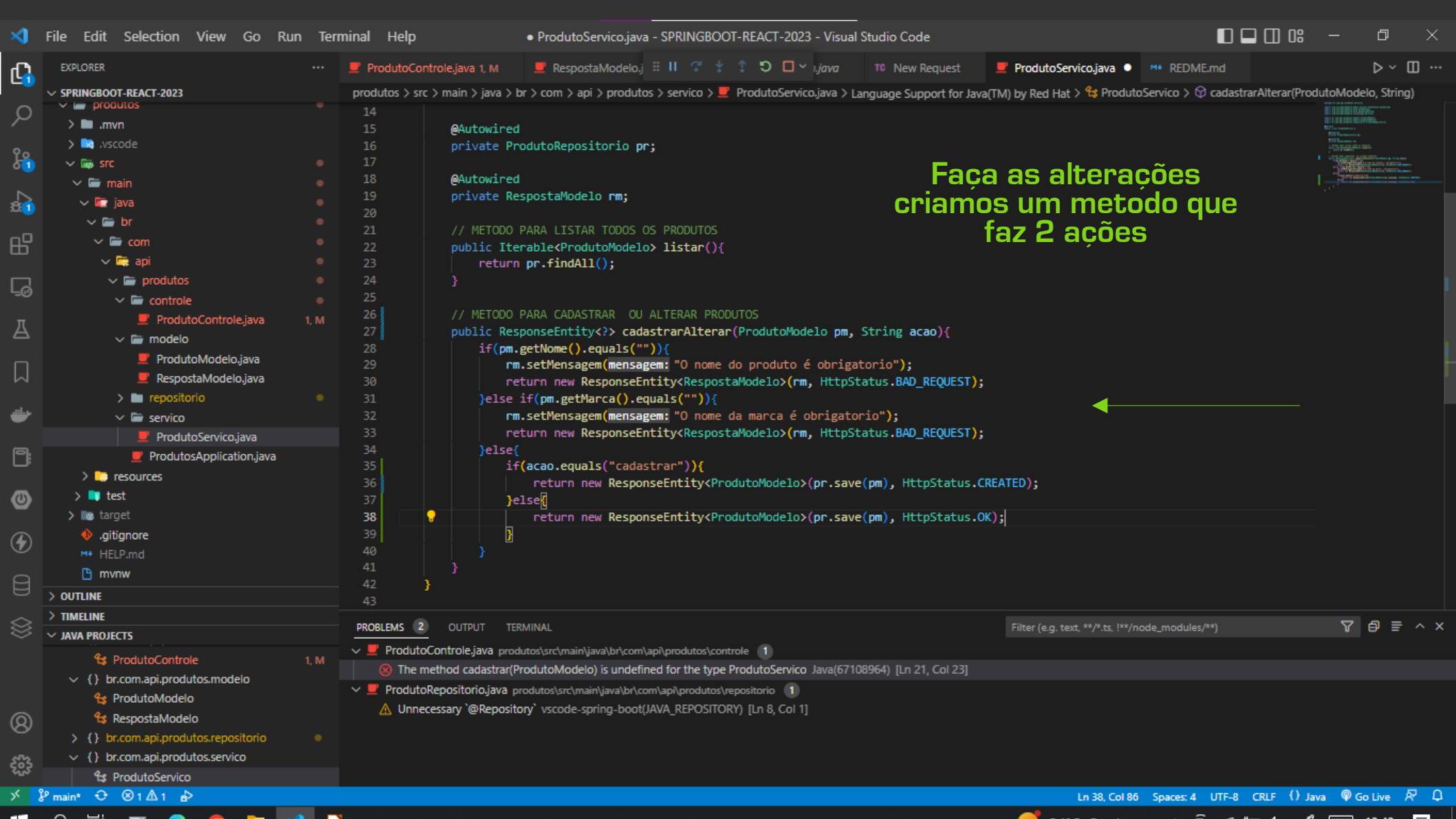


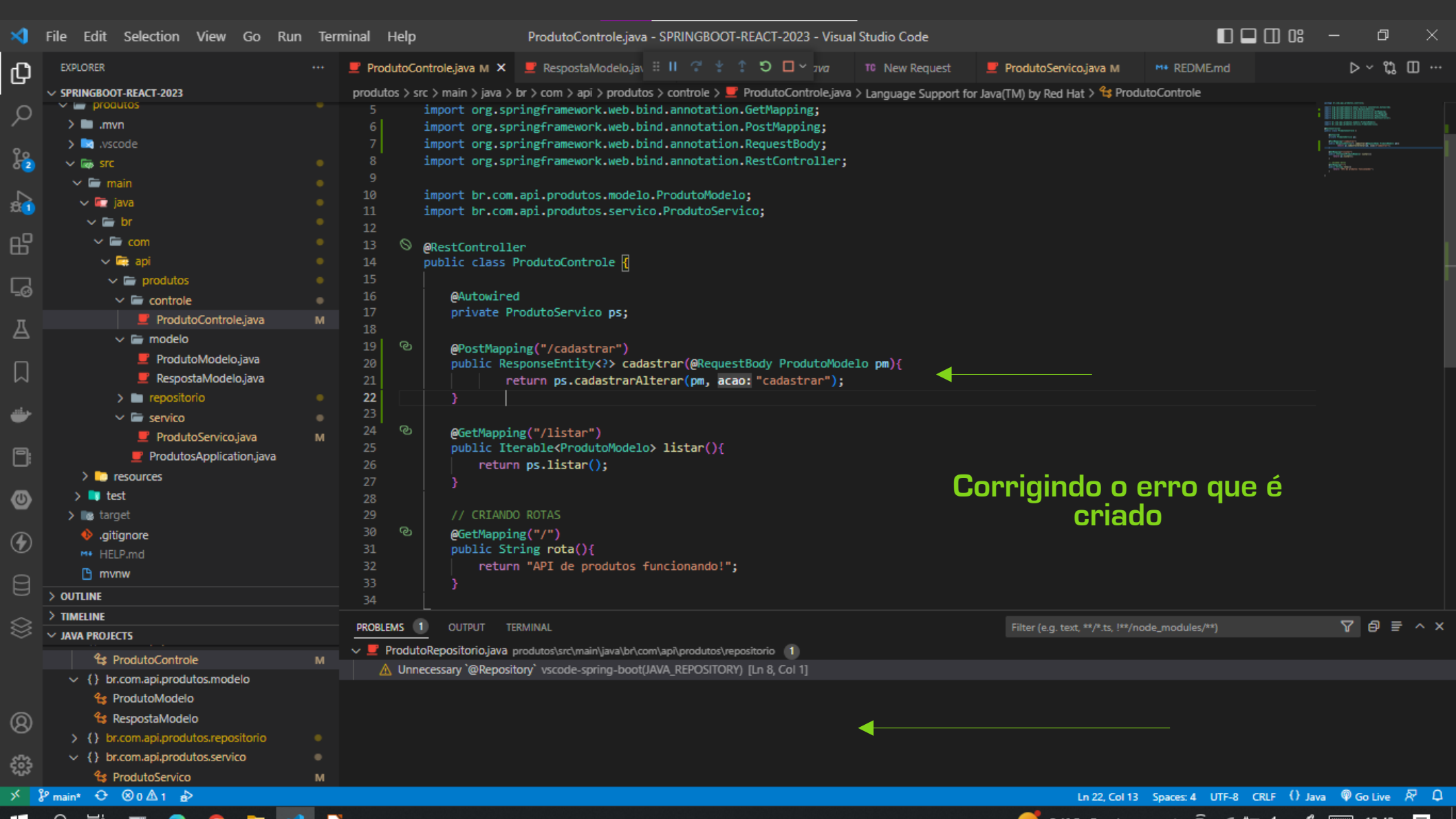


Agora a validação de dados funciona



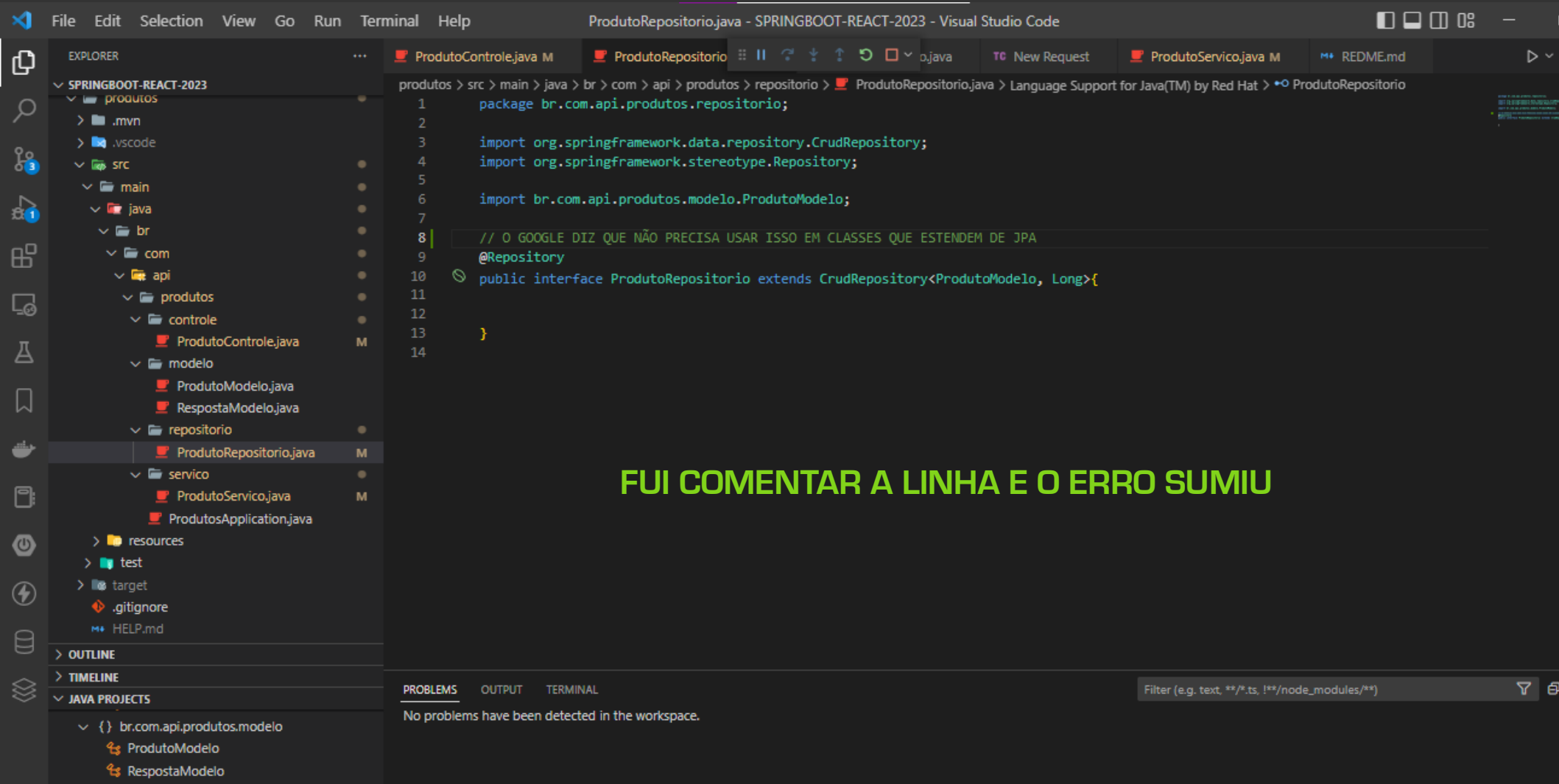
## #12 SERVIÇO PARA ALTERAR PRODUTO



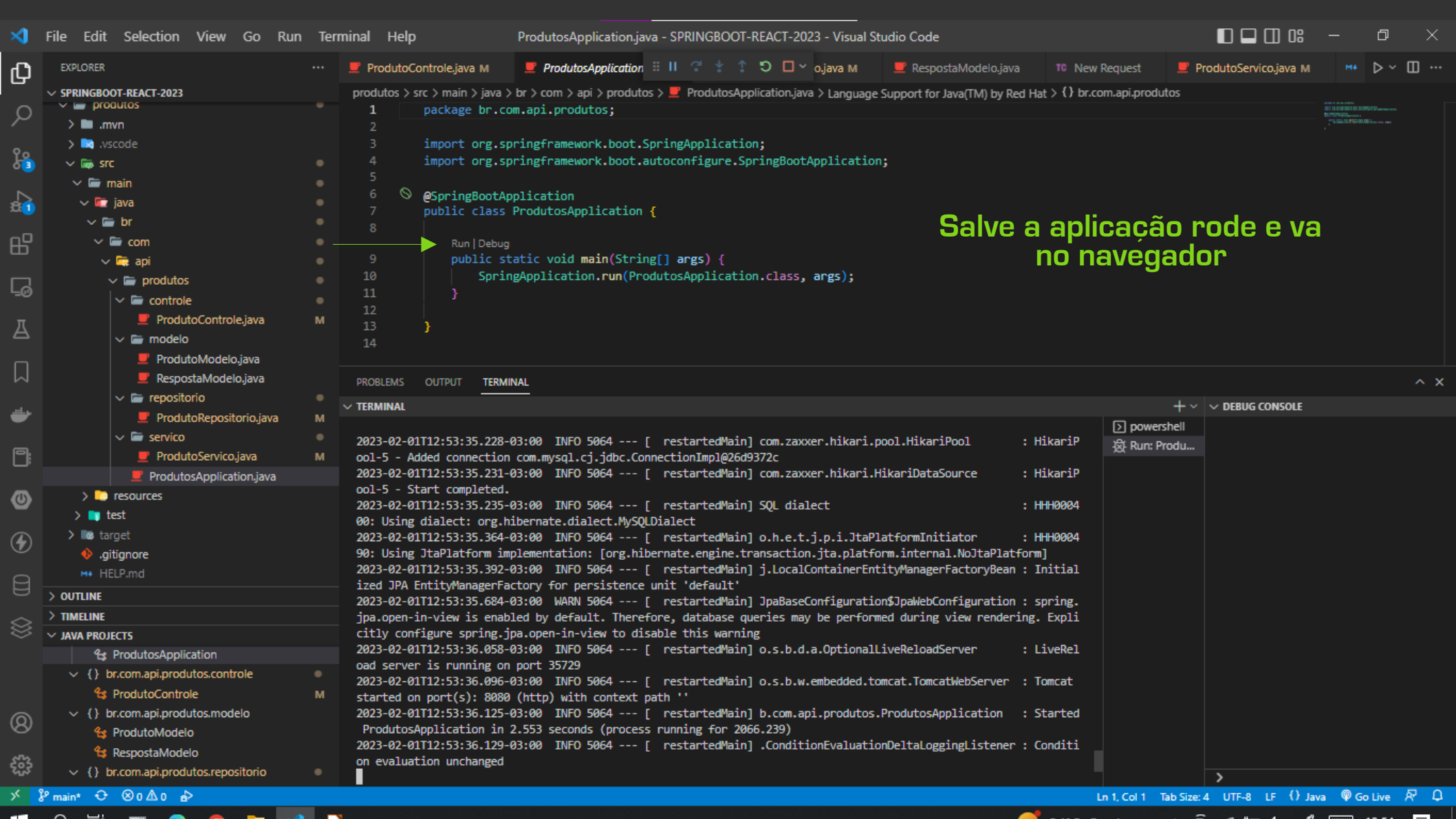


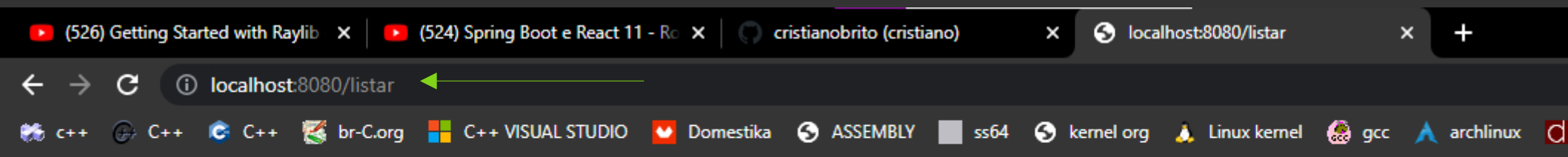
## #13

### ROTA PARA ALTERAR PRODUTOS



[illegible]

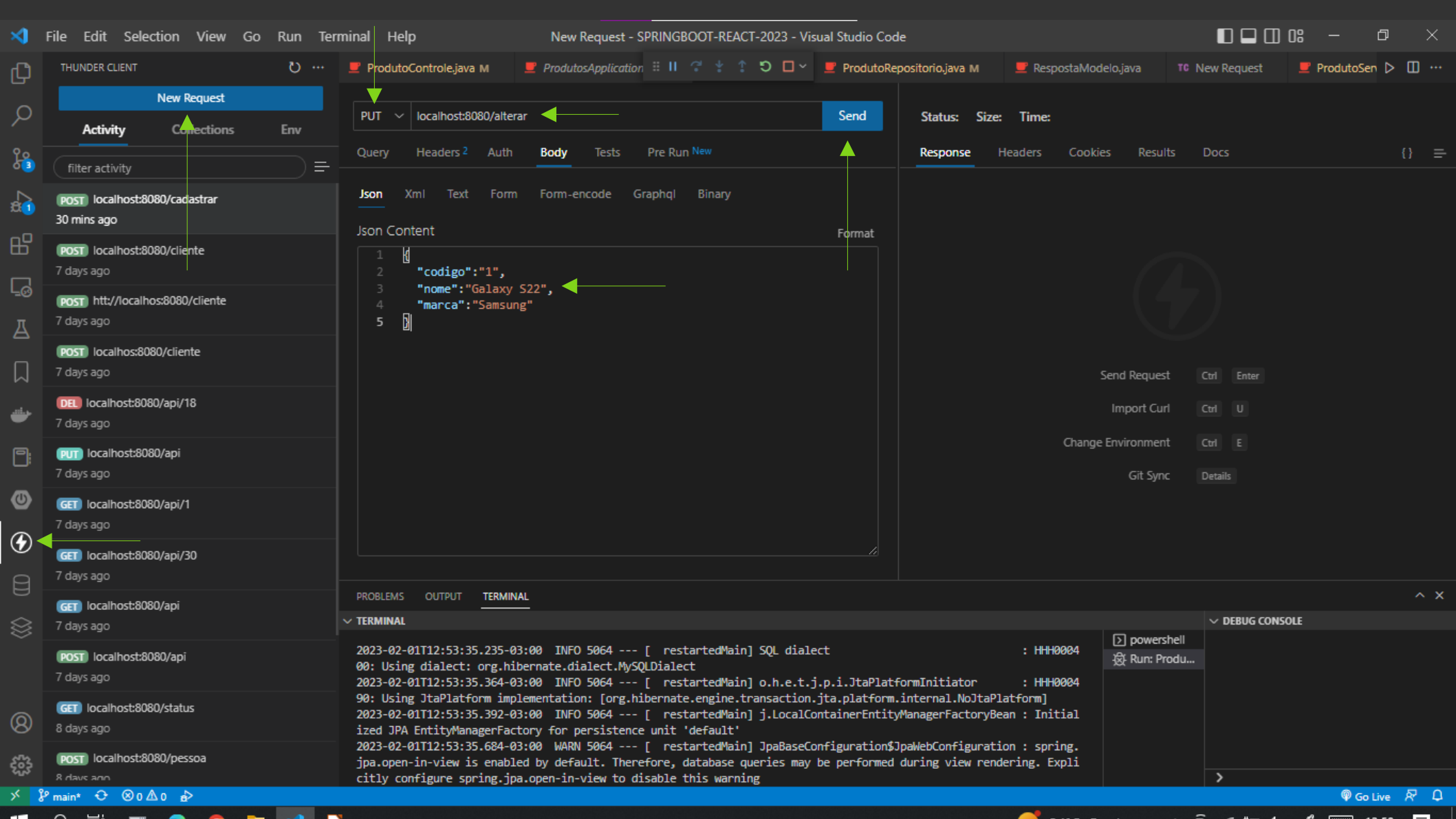


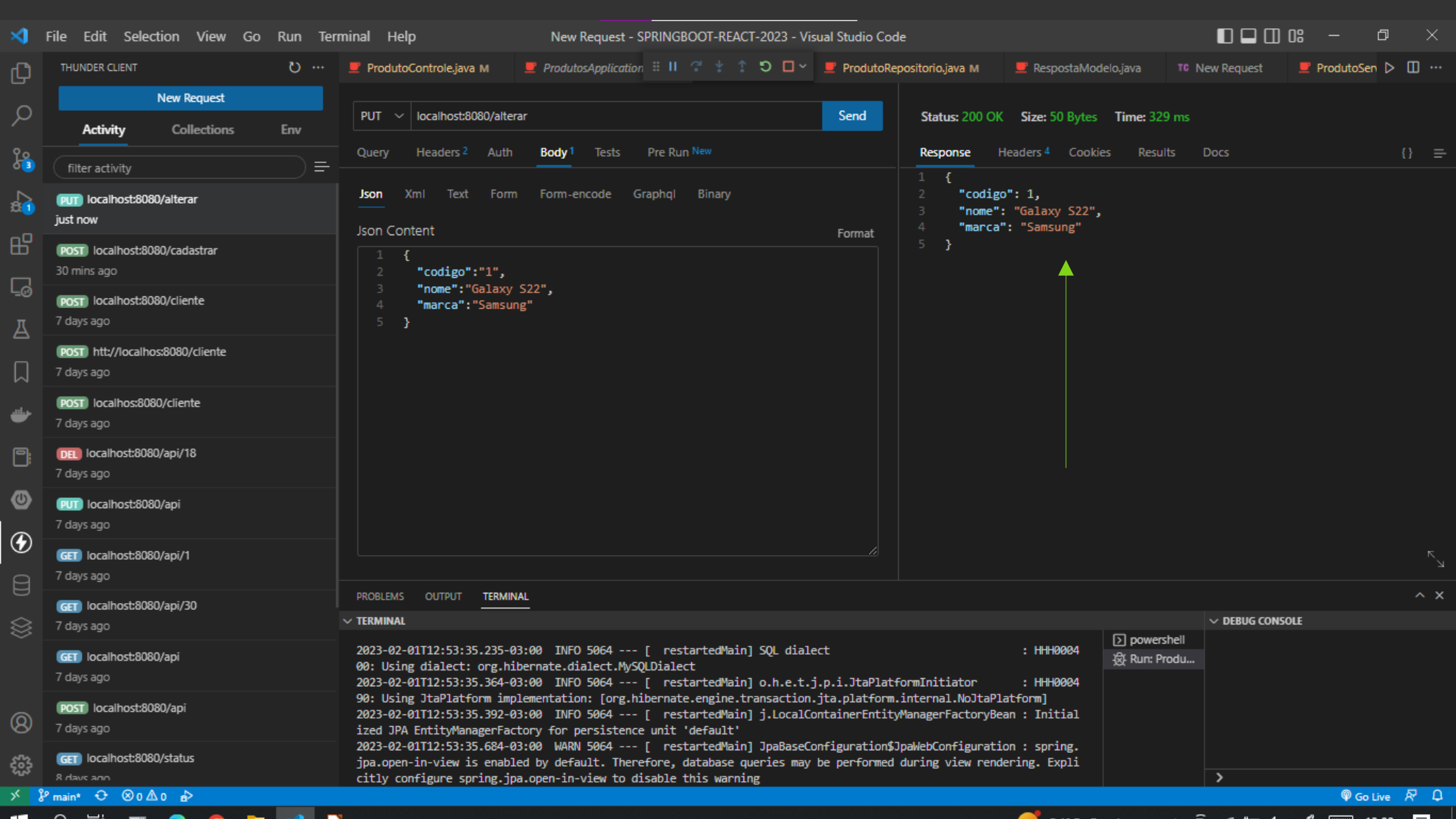


```
[{"codigo":1,"nome":"iPhone 13","marca":"Apple"}]
```

Agora vamos no thunderclient alterar esse objeto







THUNDER CLIENT

New Request

Activity

Collections

Env

filter activity

PUT localhost:8080/alterar

just now

POST localhost:8080/cadastrar

30 mins ago

POST localhost:8080/cliente

7 days ago

POST http://localhost:8080/cliente

7 days ago

POST localhost:8080/cliente

7 days ago

DEL localhost:8080/api/18

7 days ago

PUT localhost:8080/api

7 days ago

GET localhost:8080/api/1

7 days ago

GET localhost:8080/api/30

7 days ago

GET localhost:8080/api

7 days ago

POST localhost:8080/api

7 days ago

GET localhost:8080/status

8 days ago

ProdutoControle.java M

ProdutosApplication

ProdutoRepositorio.java M

RespostaModelo.java

New Request

ProdutoSen

PUT localhost:8080/alterar

Send

Query

Headers 2

Auth

Body 1

Tests

Pre Run New

Json

Xml

Text

Form

Form-encode

GraphQL

Binary

Json Content

Format

```
1 {
2   "codigo": "1",
3   "nome": "Galaxy S22",
4   "marca": "Samsung"
5 }
```

Status: 200 OK Size: 50 Bytes Time: 329 ms

Response

Headers 4

Cookies

Results

Docs

```
1 {
2   "codigo": 1,
3   "nome": "Galaxy S22",
4   "marca": "Samsung"
5 }
```

PROBLEMS

OUTPUT

TERMINAL

TERMINAL

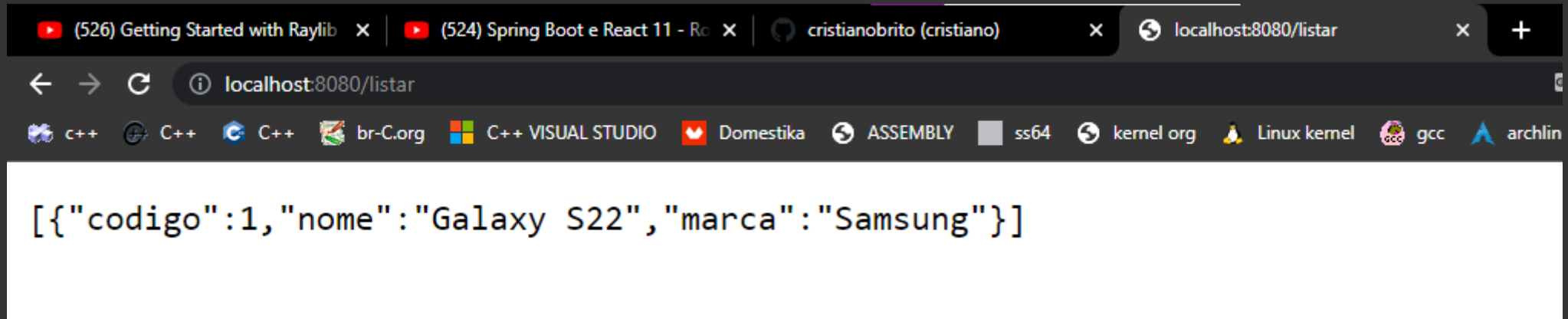
```
2023-02-01T12:53:35.235-03:00 INFO 5064 --- [ restartedMain] SQL dialect : HHH0004
00: Using dialect: org.hibernate.dialect.MySQLDialect
2023-02-01T12:53:35.364-03:00 INFO 5064 --- [ restartedMain] o.h.e.t.j.p.i.JtaPlatformInitiator : HHH0004
90: Using JtaPlatform implementation: [org.hibernate.engine.transaction.jta.platform.internal.NoJtaPlatform]
2023-02-01T12:53:35.392-03:00 INFO 5064 --- [ restartedMain] j.LocalContainerEntityManagerFactoryBean : Initial
ized JPA EntityManagerFactory for persistence unit 'default'
2023-02-01T12:53:35.684-03:00 WARN 5064 --- [ restartedMain] JpaBaseConfiguration$JpaWebConfiguration : spring.
jpa.open-in-view is enabled by default. Therefore, database queries may be performed during view rendering. Expli
citly configure spring.jpa.open-in-view to disable this warning
```

powershell

Run: Produ...

DEBUG CONSOLE

Atualizando o navegador temos os dados alterados



## #14 SERVIÇO PARA REMOVER PRODUTOS



- ProdutoServico.java - SPRINGBOOT-REACT-2023 - Visual Studio Code

\*\*\* /a M

produtos > src > main > java > br > com > api > produtos > servico >  ProdutoServico.java > ...

```

16 private ProdutoRepositorio pr;
17
18 @Autowired
19 private RespostaModelo rm;
20
21 // METODO PARA LISTAR TODOS OS PRODUTOS
22 public Iterable<ProdutoModelo> listar(){
23     return pr.findAll();
24 }
25
26 // METODO PARA CADASTRAR OU ALTERAR PRODUTOS
27 public ResponseEntity<> cadastrarAlterar(ProdutoModelo pm, String acao){
28     if(pm.getNome().equals("")){
29         rm.setMensagem(mensagem: "O nome do produto é obrigatorio");
30         return new ResponseEntity<RespostaModelo>(rm, HttpStatus.BAD_REQUEST);
31     }else if(pm.getMarca().equals("")){
32         rm.setMensagem(mensagem: "O nome da marca é obrigatorio");
33         return new ResponseEntity<RespostaModelo>(rm, HttpStatus.BAD_REQUEST);
34     }else{
35         if(acao.equals("cadastrar")){
36             return new ResponseEntity<ProdutoModelo>(pr.save(pm), HttpStatus.CREATED);
37         }else{
38             return new ResponseEntity<ProdutoModelo>(pr.save(pm), HttpStatus.OK);
39         }
40     }
41 }
42
43 // METODO PARA REMOVER PRODUTOS
44 public ResponseEntity<RespostaModelo> remover(long codigo){
45     pr.deleteById(codigo);
46     rm.setMensagem(mensagem: "O produto foi removido com sucesso!");
47     return new ResponseEntity<RespostaModelo>(rm, HttpStatus.OK);
48 }
49 }
50

```

PROBLEMS OUTPUT TERMINAL

No problems have been detected in the workspace.


PROBLEMS OUTPUT TERMINAL

PROBLEMS OUTPUT TERMINAL

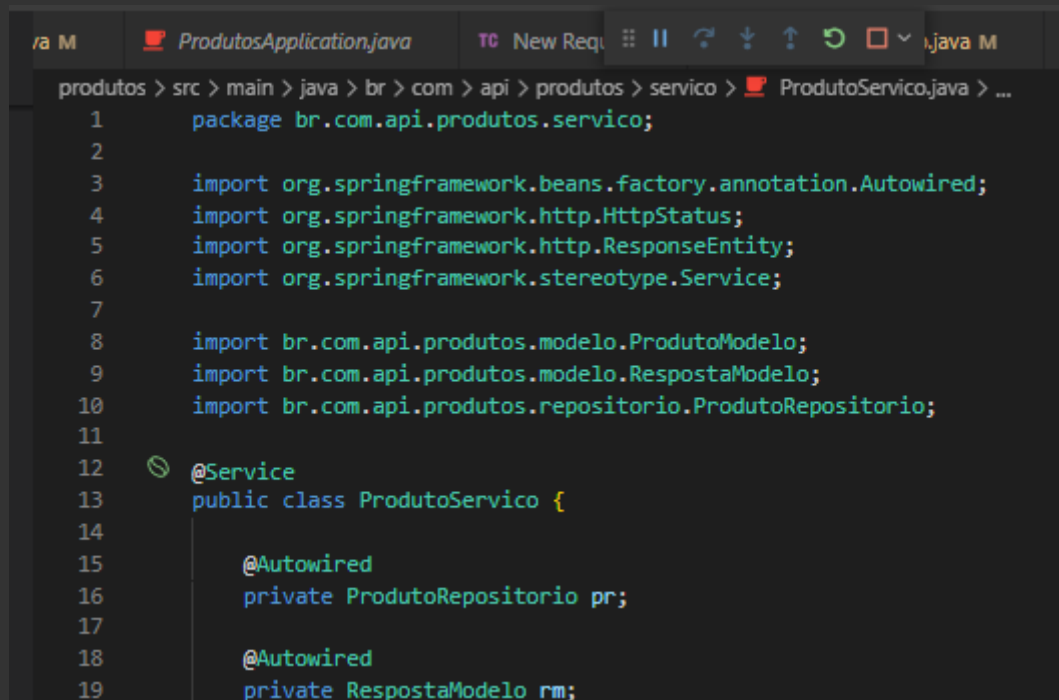
PROBLEMS OUTPUT TERMINAL

PROBLEMS OUTPUT TERMINAL

Filter (e.g. text, **\*\*/\*.ts**, **!\*\*/node\_modules/\*\***)

Ln 50, Col 1 Spaces: 4 UTF-8 CRLF ( ) Java Go Live 

## Uma espiadinha nos importes pra não ter duvida

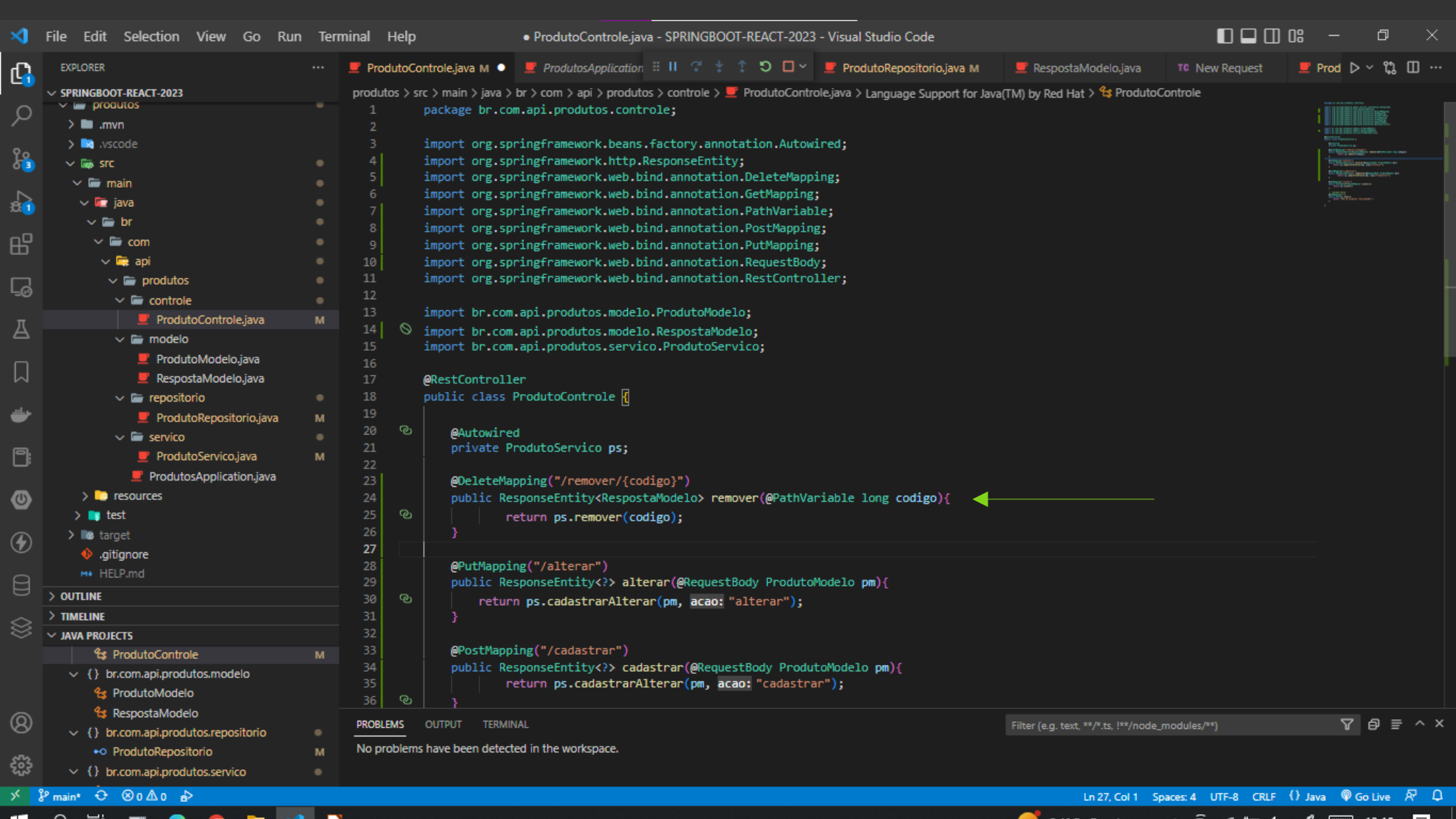


```
ra M  ProdutosApplication.java  TC New Requ  ||  ↶  ⚡  ⬇  ⬆  ↷  ☐  java M  !  
produtos > src > main > java > br > com > api > produtos > servico > ProdutoServico.java > ...  
1      package br.com.api.produtos.servico;  
2  
3      import org.springframework.beans.factory.annotation.Autowired;  
4      import org.springframework.http.HttpStatus;  
5      import org.springframework.http.ResponseEntity;  
6      import org.springframework.stereotype.Service;  
7  
8      import br.com.api.produtos.modelo.ProdutoModelo;  
9      import br.com.api.produtos.modelo.RespostaModelo;  
10     import br.com.api.produtos.repositorio.ProdutoRepositorio;  
11  
12     @Service  
13     public class ProdutoServico {  
14  
15         @Autowired  
16         private ProdutoRepositorio pr;  
17  
18         @Autowired  
19         private RespostaModelo rm;
```

Agora vamos implementar a rota para a exclusão

## **#15**

### **ROTA PARA REMOVER PRODUTOS**

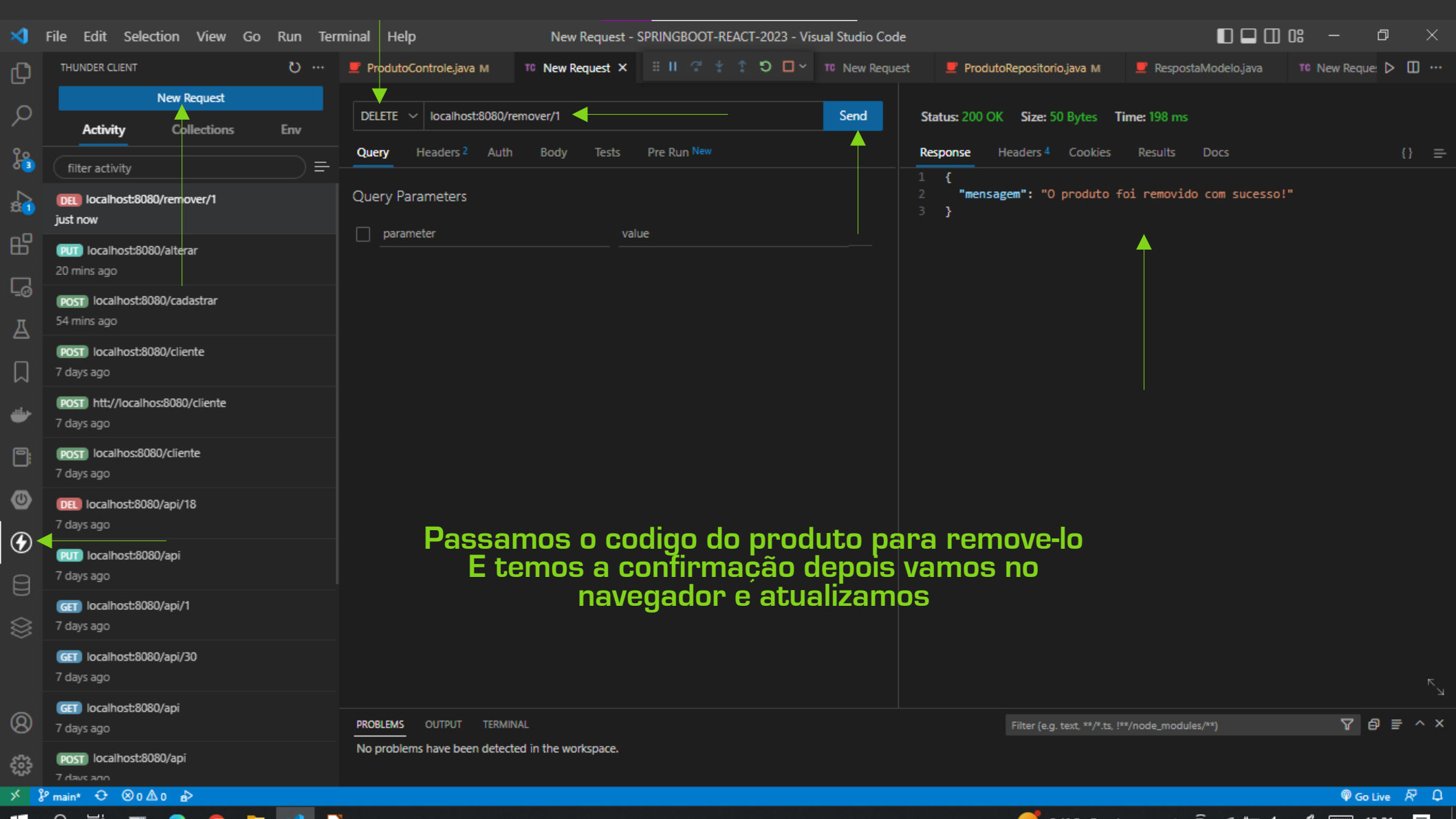






## Vamos remover





Passamos o codigo do produto para remove-lo  
E temos a confirmação depois vamos no  
navegador e atualizamos

(527) Getting Started with Raylib x (527) Spring Boot e React 11 - Ro x cristianobrito (cristiano) x localhost:8080/listar x +

localhost:8080/listar

c++ C++ C++ br-C.org C++ VISUAL STUDIO Domestika ASSEMBLY ss64 kernel.org Linux kernel gcc archlinux

[]

**#16**  
**CORS**





