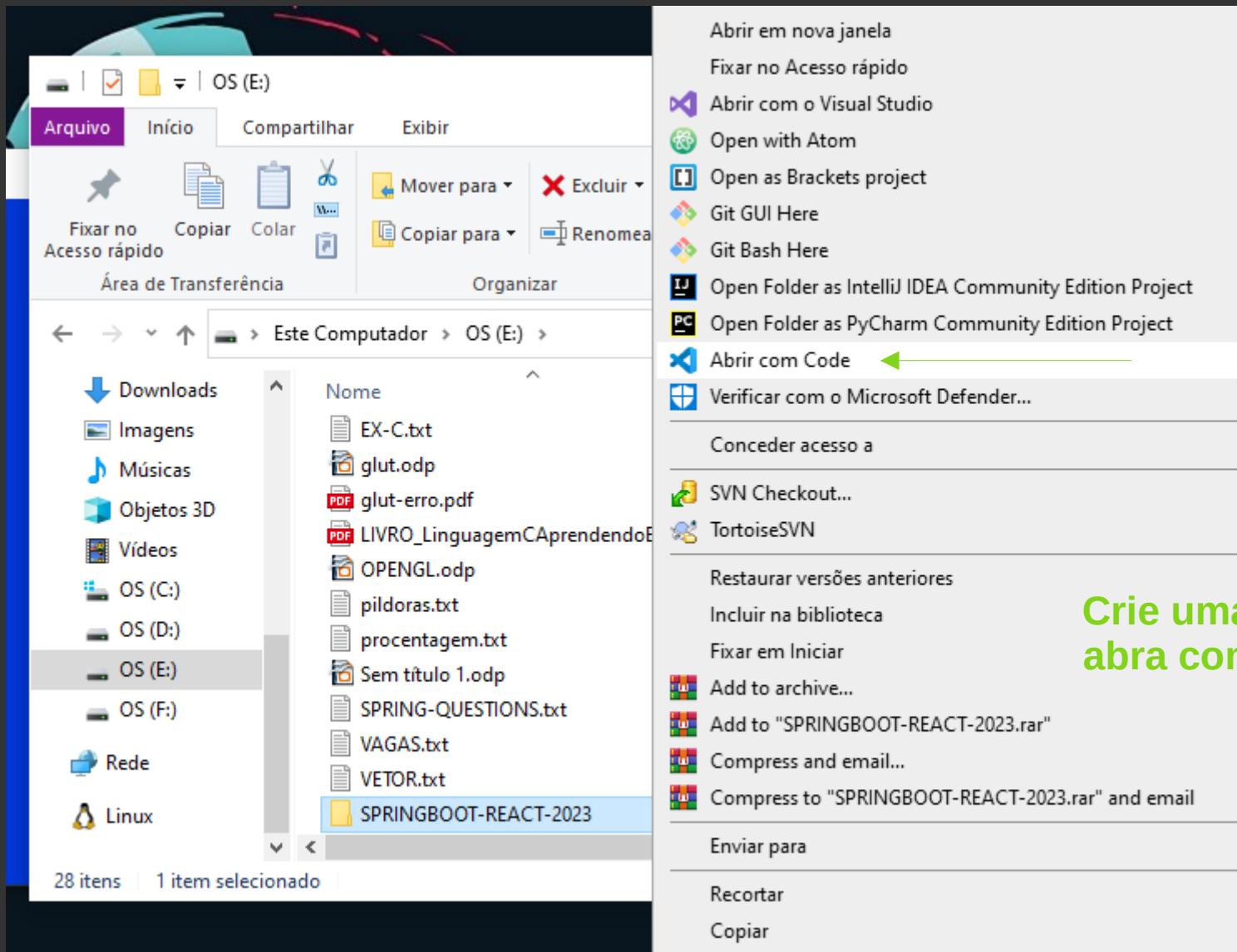
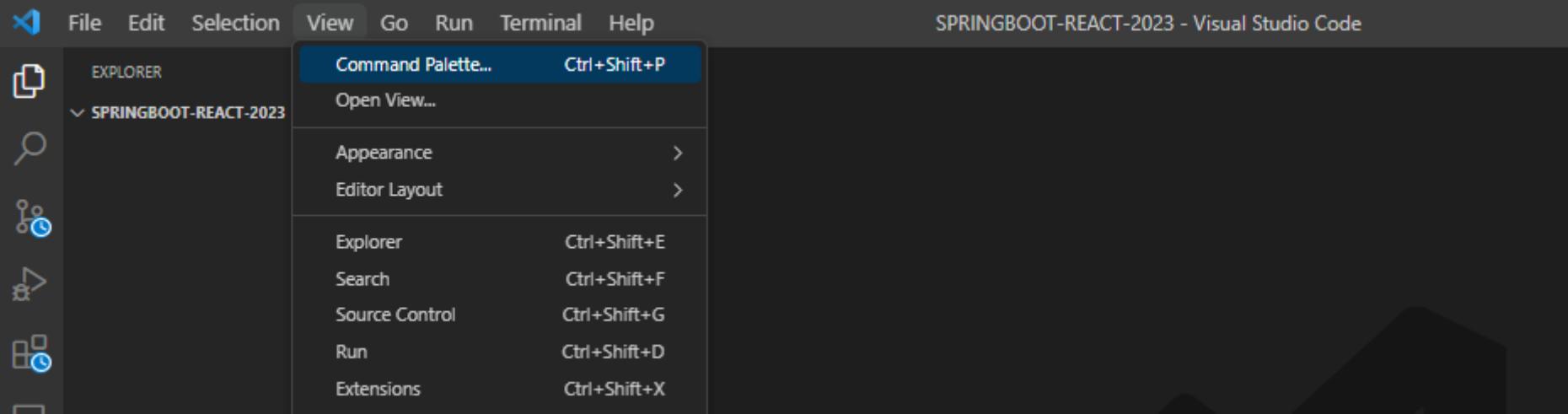


**SPRINGBOOT E REACT
2023
NANO**





Help

SPRINGBOOT-REACT-2023 - Visual Studio 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

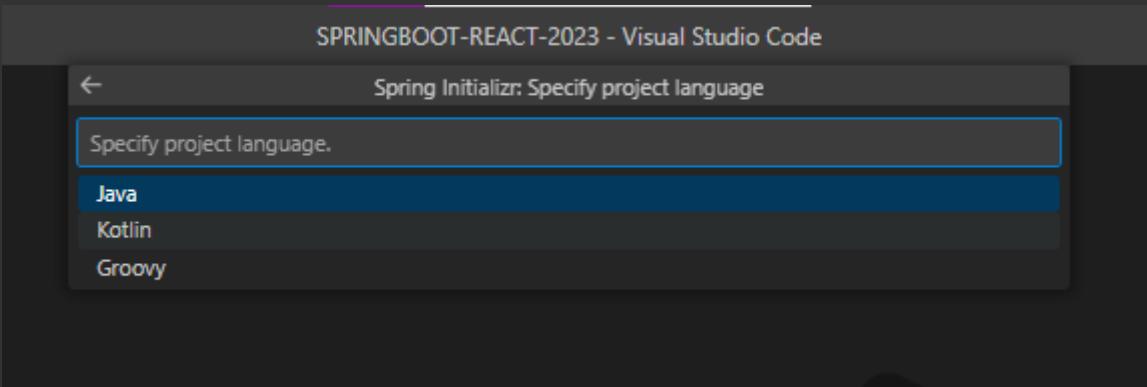
Specify Spring Boot version.

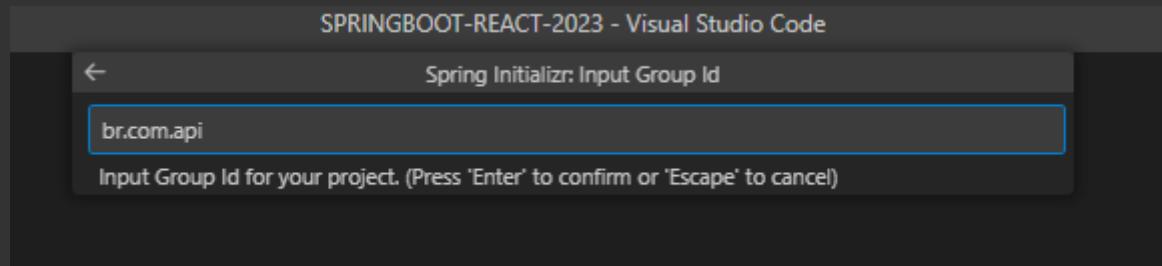
3.0.2

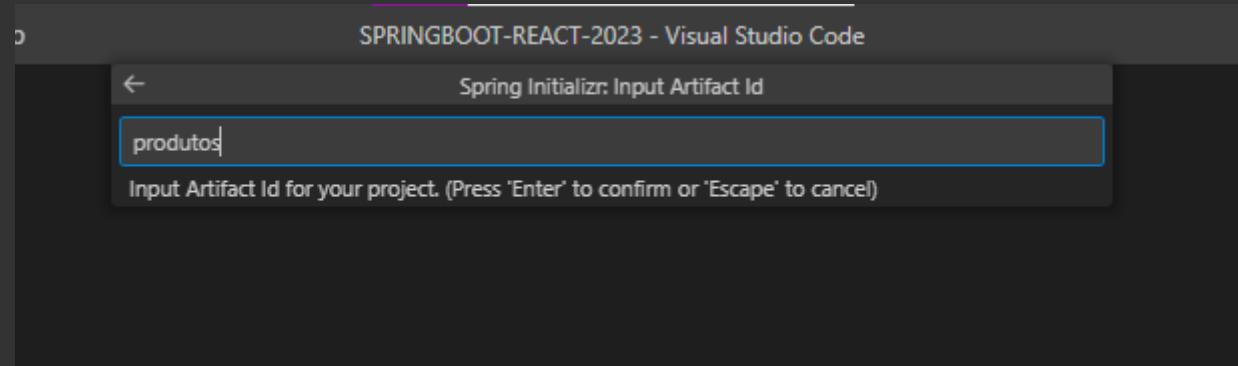
3.0.3 (SNAPSHOT)

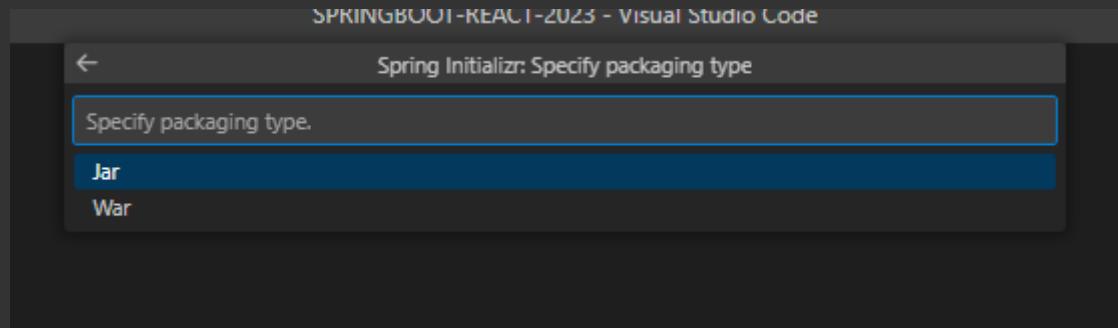
2.7.9 (SNAPSHOT)

2.7.8









elp

SPRINGBOOT-REACT-2023 - Visual Studio Code



Spring Initializr: Specify Java version

Specify Java version.

17

19

11

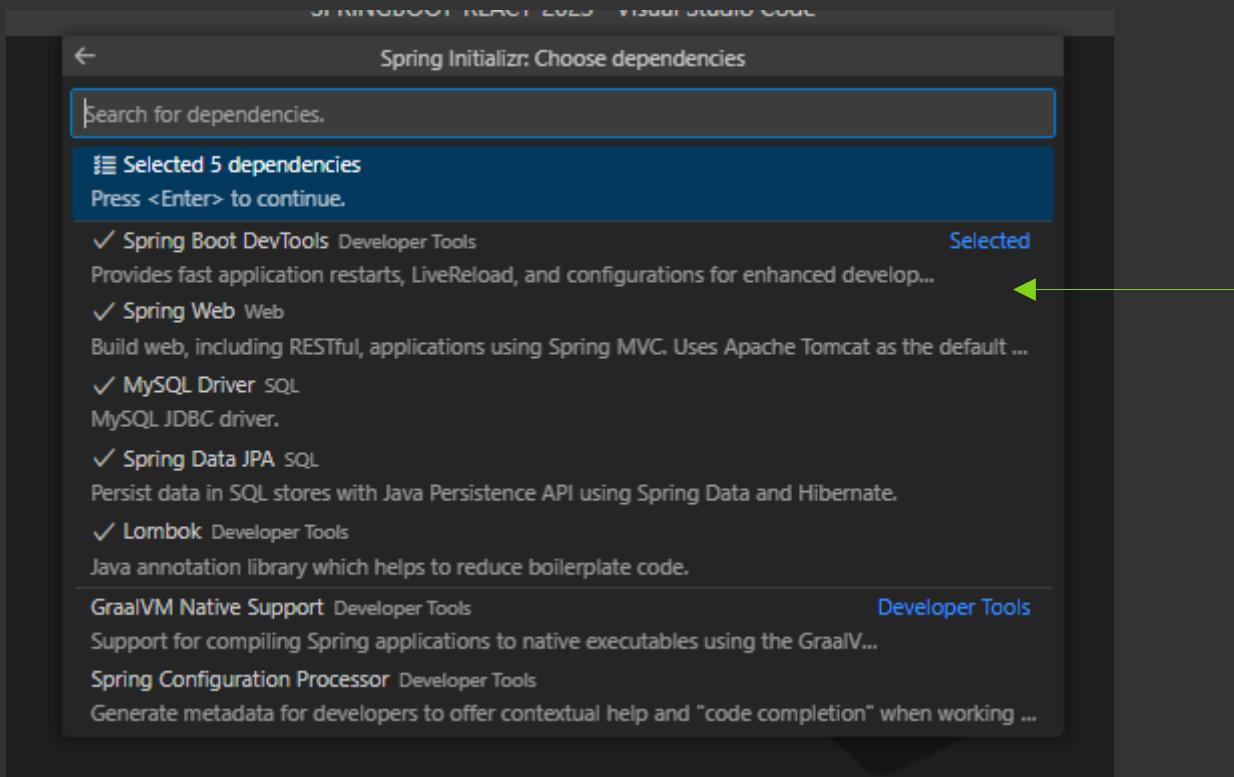
8

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.
```

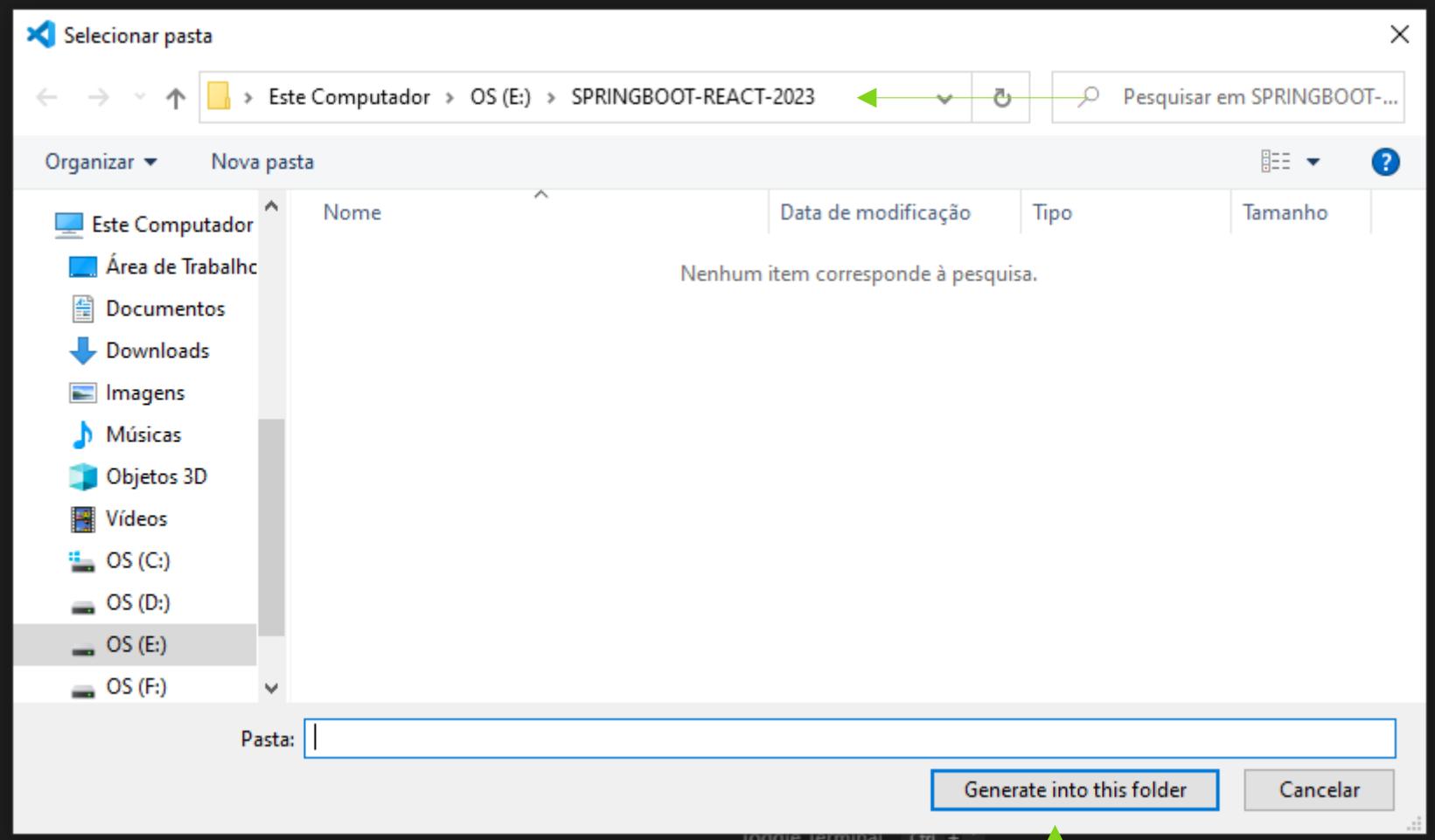
```
C:\>java -version
java version "17" 2021-09-14 LTS
Java(TM) SE Runtime Environment (build 17+35-LTS-2724)
Java HotSpot(TM) 64-Bit Server VM (build 17+35-LTS-2724, mixed mode, sharing)
```

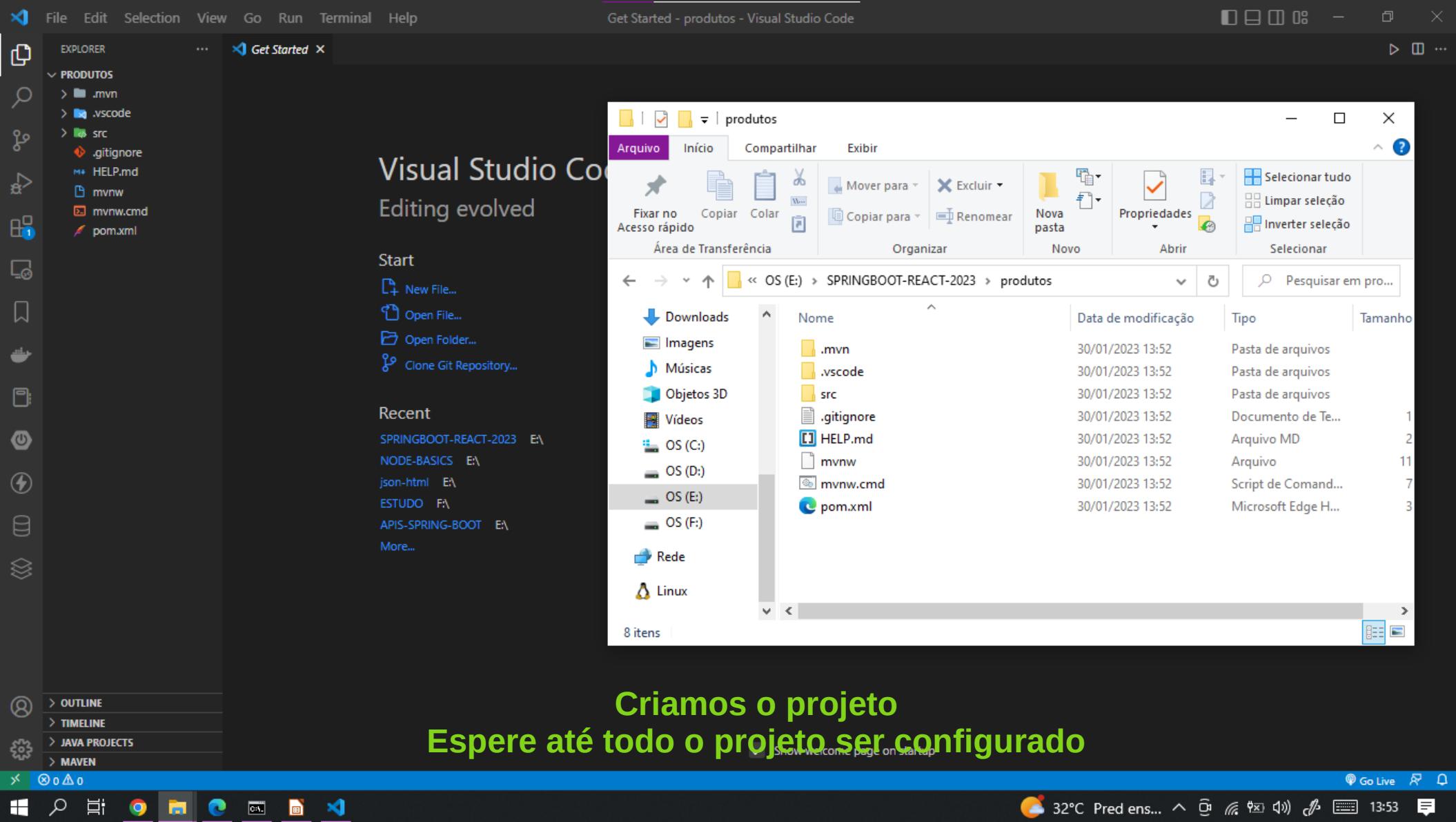
```
C:\>
```



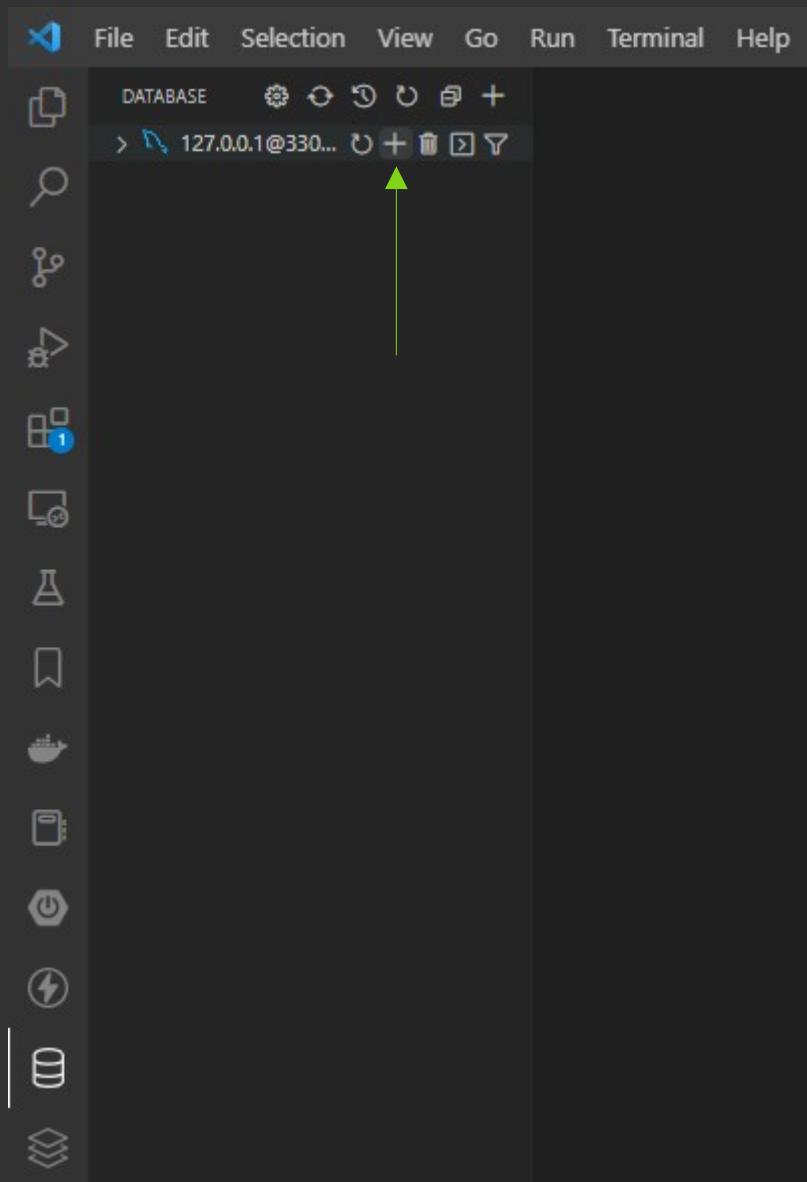
Adicione essas 5 dependencias e tecle enter

Escolhemos a pasta pra salvar os arquivos





#3
GERANDO A TABELA



A screenshot of the Visual Studio Code interface, specifically the MySQL extension. The window title is "create-db-template.sql - produtos - Visual Studio Code". The left sidebar shows icons for Database, Terminal, and other extensions. The main editor area displays a MySQL query script:

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

The screenshot shows the MySQL Workbench interface. On the left is a sidebar with icons for databases, connections, and other tools. The main area has a title bar with 'File Edit Selection View Go Run Terminal Help' and a tab 'create-db-template.sql'. The central part displays a connection to '127.0.0.1@3306 8.0.25'. Below it, a terminal window shows the command 'CREATE DATABASE spring_react' with its output: 'Active Connection' and 'Active: 1674406792944@127.0.0.1@3306 MySQL'. The SQL editor window contains the following code:

```
1 -- Active Connection
2 > Execute
3 CREATE DATABASE spring_react
4 | DEFAULT CHARACTER SET = 'utf8mb4';
```

Após dar nome click em execute

A screenshot of the Visual Studio Code interface, specifically the MySQL extension, showing the creation of a new database. The top navigation bar includes File, Edit, Selection, View, Go, Run, Terminal, and Help. The title bar shows "create-db-template.sql - produtos - Visual Studio Code". On the left is a sidebar with icons for databases, tables, views, procedures, functions, and world. The main area shows a tree view of databases under "127.0.0.1@3306 8.0.25", with "spring_react" selected. Below the tree is a code editor with the following SQL script:

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

The status bar at the bottom indicates "Cost: 695ms". A modal window titled "Data" shows the same SQL command and the result "AffectedRows : 1".

Criamos o banco de dados

The screenshot shows the Visual Studio Code interface with a dark theme. The Explorer sidebar on the left lists project files and folders. The file `application.properties` is selected in the list, highlighted with a blue bar at the bottom. The main editor area on the right displays the contents of `application.properties`, which is currently empty. The status bar at the bottom indicates the file path: `src > main > resources > application.properties`.

application.properties - pr

EXPLORER

PRODUTOS

- .mvn
- .vscode
- src
 - main
 - java
 - resources
 - static
 - templates
 - test
 - target
 - .gitignore
 - HELP.md
 - mvnw
 - mvnw.cmd
 - pom.xml
 - REDME.md

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

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** application.properties - produtos - Visual Studio Code
- Explorer View:** Shows the project structure:
 - PRODUTOS
 - .mvn
 - .vscode
 - src
 - main
 - java
 - resources
 - static
 - templates
 - test
 - target
 - .gitignore
 - HELP.md
 - mvnw
 - mvnw.cmd
 - pom.xml
 - README.md
- Editor View:** The application.properties file is open, showing configuration for Spring Boot and MySQL. The file content is as follows:

```
Conexão entre o Spring Boot e o MySQL:  
# Altera a estrutura da tabela caso a entidade tenha mudanças.  
spring.jpa.hibernate.ddl-auto=update  
# Acesso ao banco de dados  
spring.datasource.url=jdbc:mysql:// ${MYSQL_HOST}:3306/nome_base_de_dados  
# Usuário do banco de dados  
spring.datasource.username=usuário  
# Senha do banco de dados  
spring.datasource.password=senha
```

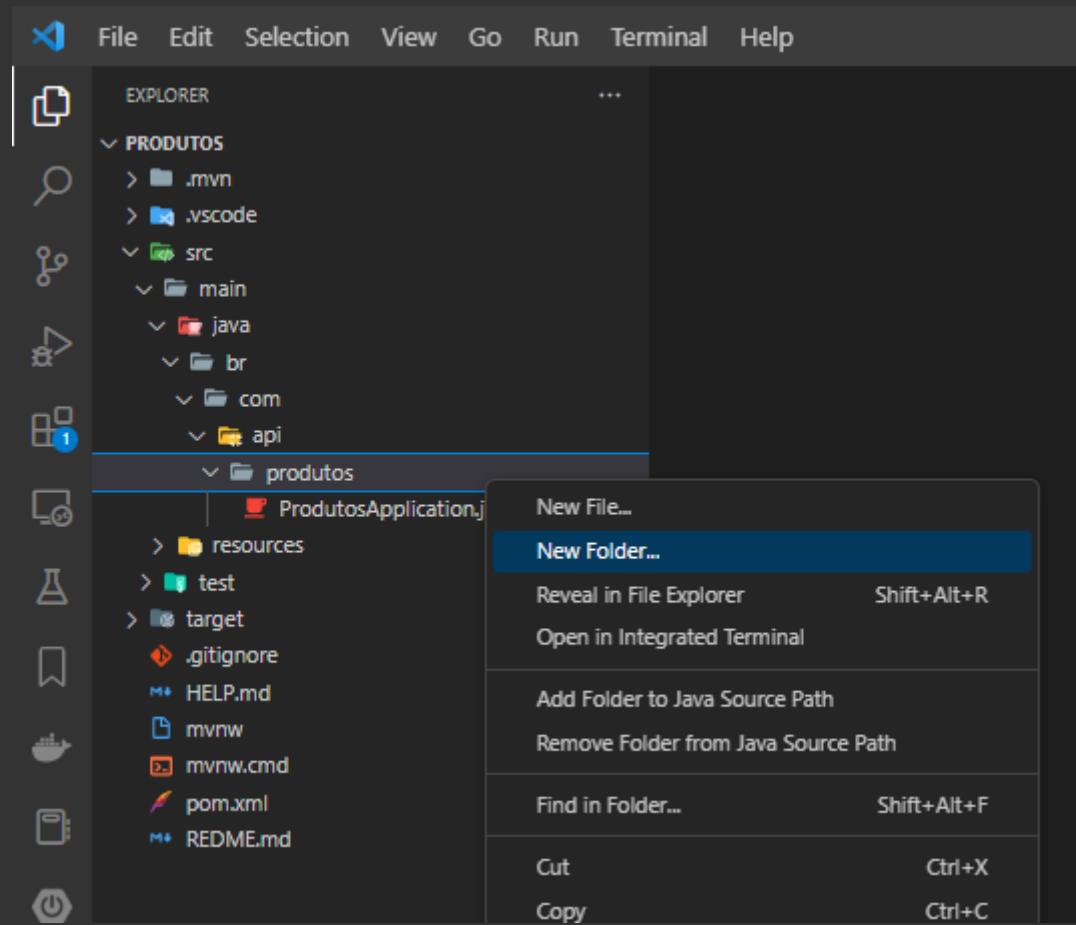
Substitua os dados

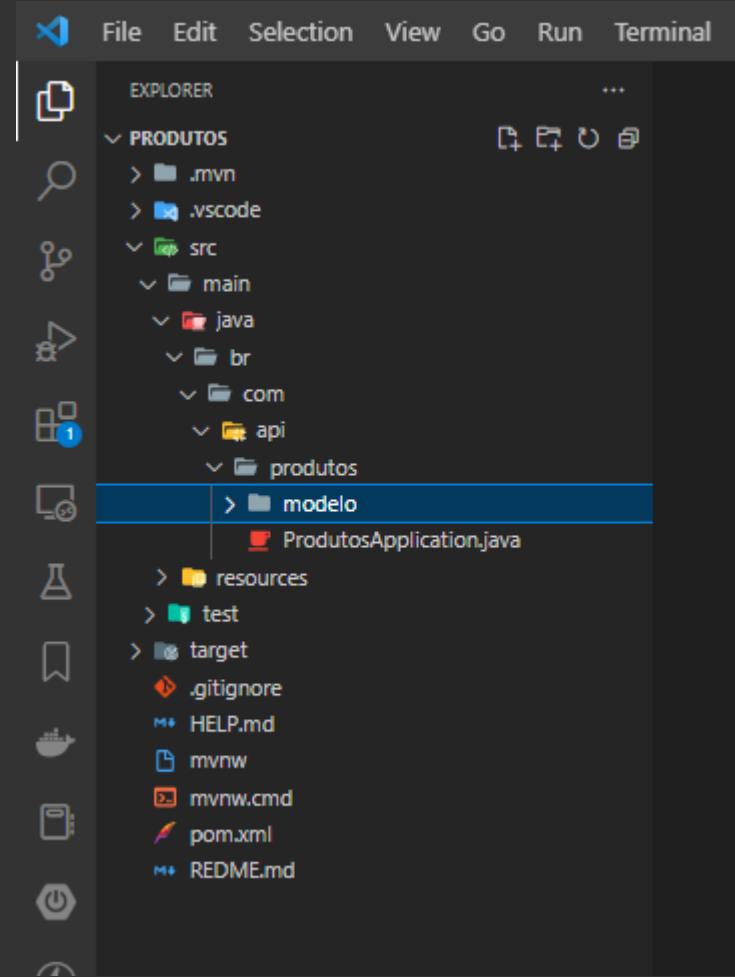
The screenshot shows the Visual Studio Code interface with the following details:

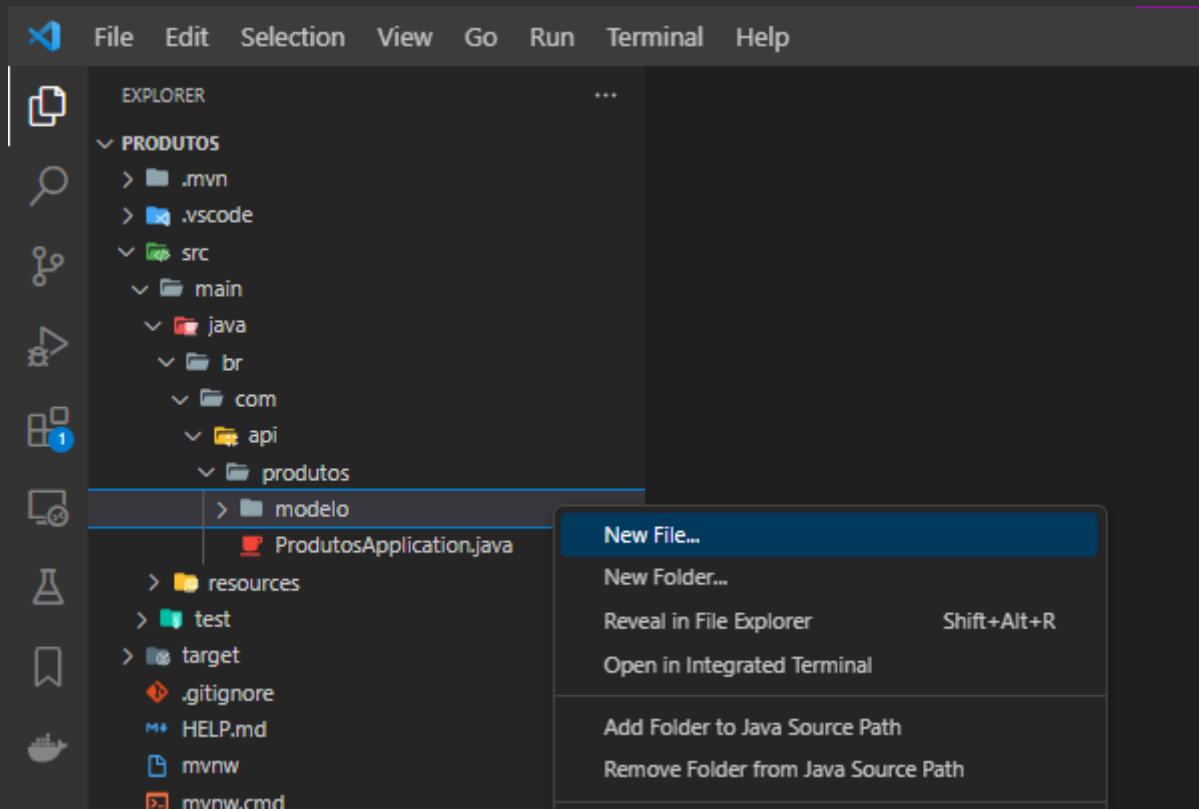
- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help
- Title Bar:** application.properties - produtos - Visual Studio Code
- Explorer View (Left):** Shows the project structure:
 - .mvn
 - .vscode
 - src
 - main
 - java
 - resources
 - static
 - templates
 - test
 - target
 - .gitignore
 - HELP.md
 - mvnw
 - mvnw.cmd
 - pom.xml
 - REDME.md
- Editor View (Right):** The application.properties file content is displayed.

```
# Conexão entre o Spring Boot e o MySQL:  
# Altera a estrutura da tabela caso a entidade tenha mudanças.  
spring.jpa.hibernate.ddl-auto=update  
# Acesso ao banco de dados  
spring.datasource.url=jdbc:mysql:// ${MYSQL_HOST}:3306/spring_react  
# Usuário do banco de dados  
spring.datasource.username=root  
# Senha do banco de dados  
spring.datasource.password=Akilles101
```

Dados trocados







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



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 > 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
```

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

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

```
2
3 import jakarta.persistence.Entity;
4 import jakarta.persistence.Table;
5
6 @Entity
7 @Table(name = "produtos")
8 public class ProdutoModelo {
9
10 }
11
12 }
```

ProdutosApplication.java

resources

test

target

.gitignore

HELP.md

mvnw

mvnw.cmd

pom.xml

REDME.md

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



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 2

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

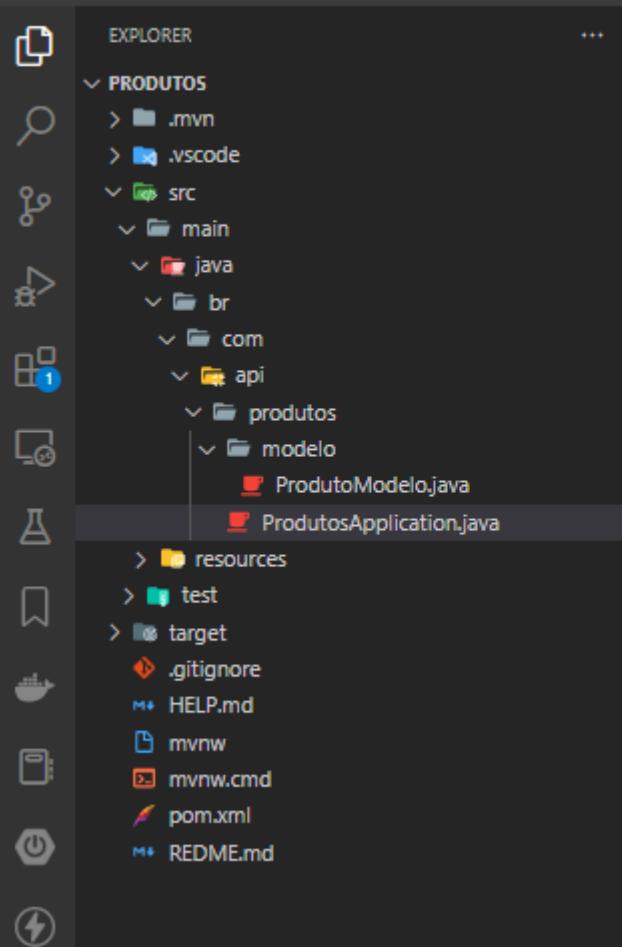
...

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 }
```

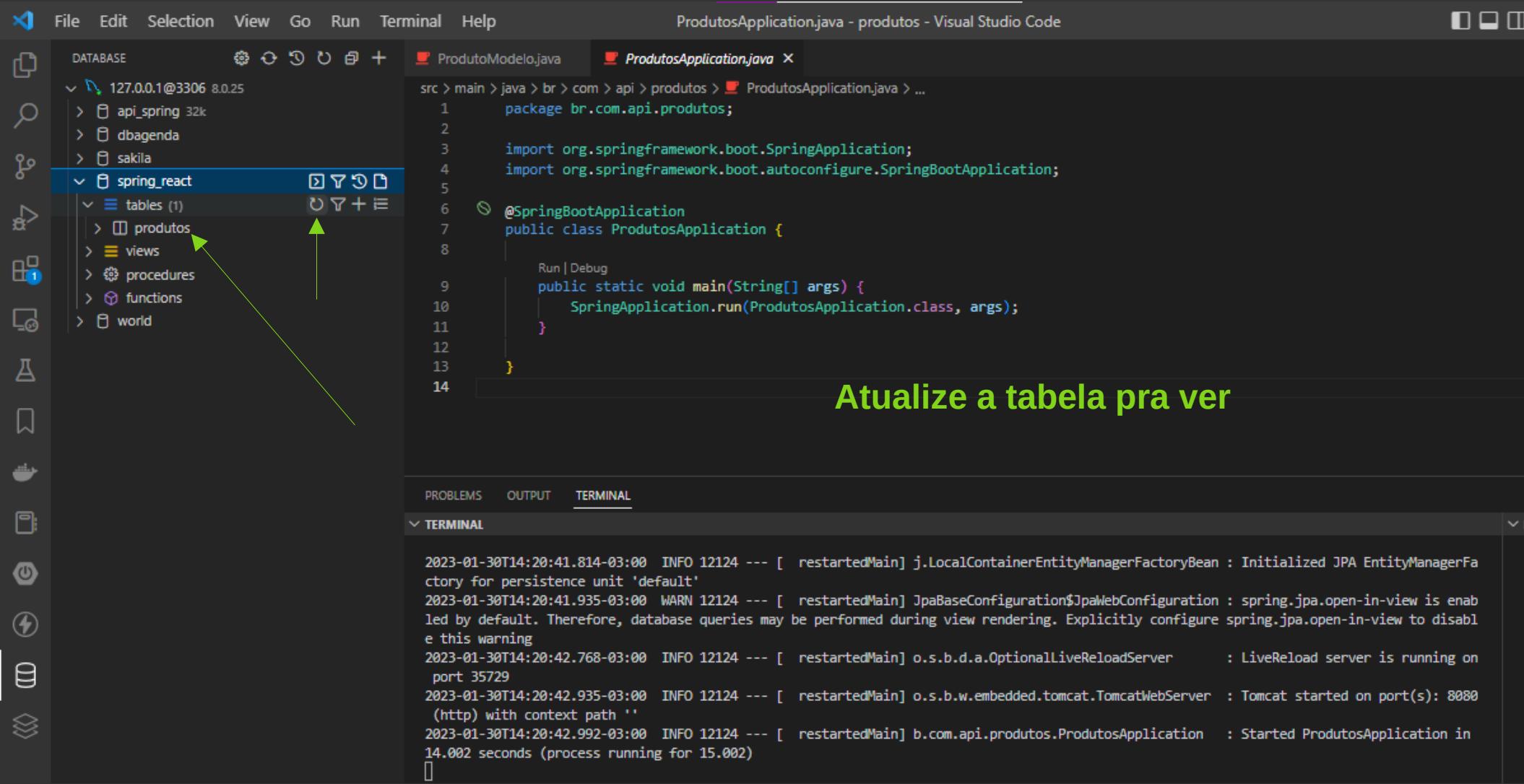




```
src > main > java > br > com > api > produtos > ProdutosApplication.java > ...
1      package br.com.api.produtos;
2
3      import org.springframework.boot.SpringApplication;
4      import org.springframework.boot.autoconfigure.SpringBootApplication;
5
6      @SpringBootApplication
7      public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

Run | Debug

Click em run



The screenshot shows a Visual Studio Code interface with two open files: `ProdutoModelo.java` and `ProdutosApplication.java`. On the left, there is a database sidebar titled "DATABASE" showing a connection to "127.0.0.1@3306 8.0.25". It lists several databases: `api_spring`, `dbagenda`, `sakila`, and `spring_react`. Under `spring_react`, it shows a table named `produtos` with columns: `codigo` (bigint), `marca` (varchar(255)), and `nome` (varchar(255)). A green arrow points from the `marca` column entry in the database sidebar to the `marca` field in the `ProdutoModelo.java` code editor.

`ProdutosApplication.java - produtos - Visual Studio Code`

`ProdutosApplication.java`

```
src > main > java > br > com > api > produtos > ProdutoModelo.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,  
11     }  
12 }  
13  
14
```

`ProdutoModelo.java`

```
src > main > java > br > com > api > produtos > 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
```

PROBLEMS OUTPUT TERMINAL

TERMINAL

```
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
```

DEBUG CONSOLE

De onde vem os dados

#4
ESTRUTURANDO O PROJETO

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

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** ProdutosApplication.java - produtos - Visual Studio Code
- Left Sidebar:** SPRING BOOT DASHBOARD, APPS (produtos), BEANS (produtos, produtosApplication).
- Central Area:** A Java file named ProdutosApplication.java is open. The code is as follows:

```
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 }
```

- Bottom Navigation:** PROBLEMS, OUTPUT, TERMINAL (underlined).
- Terminal Output:** Shows log messages from the application startup.

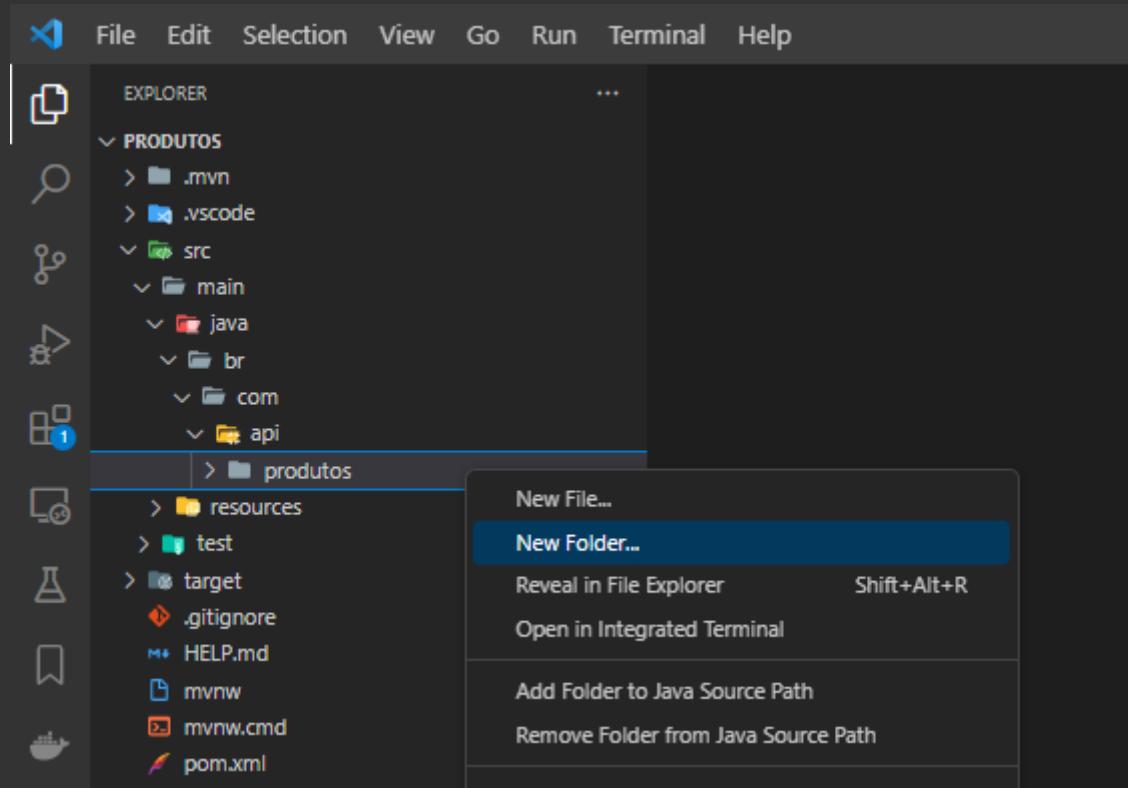
PARE DE RODAR O PROJETO

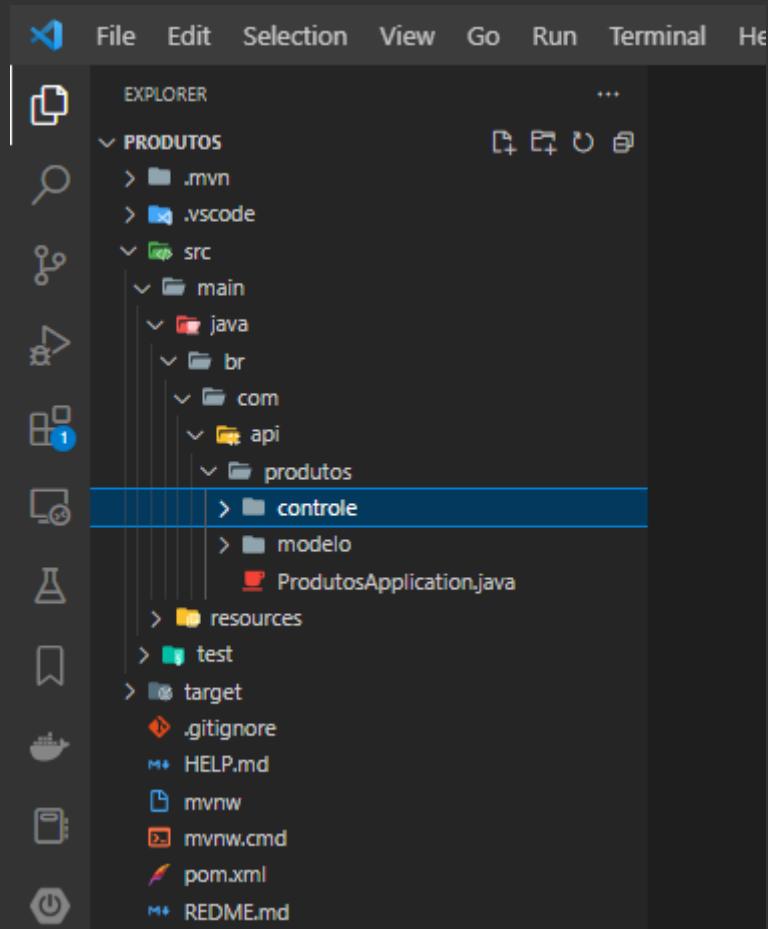
PROBLEMS OUTPUT TERMINAL

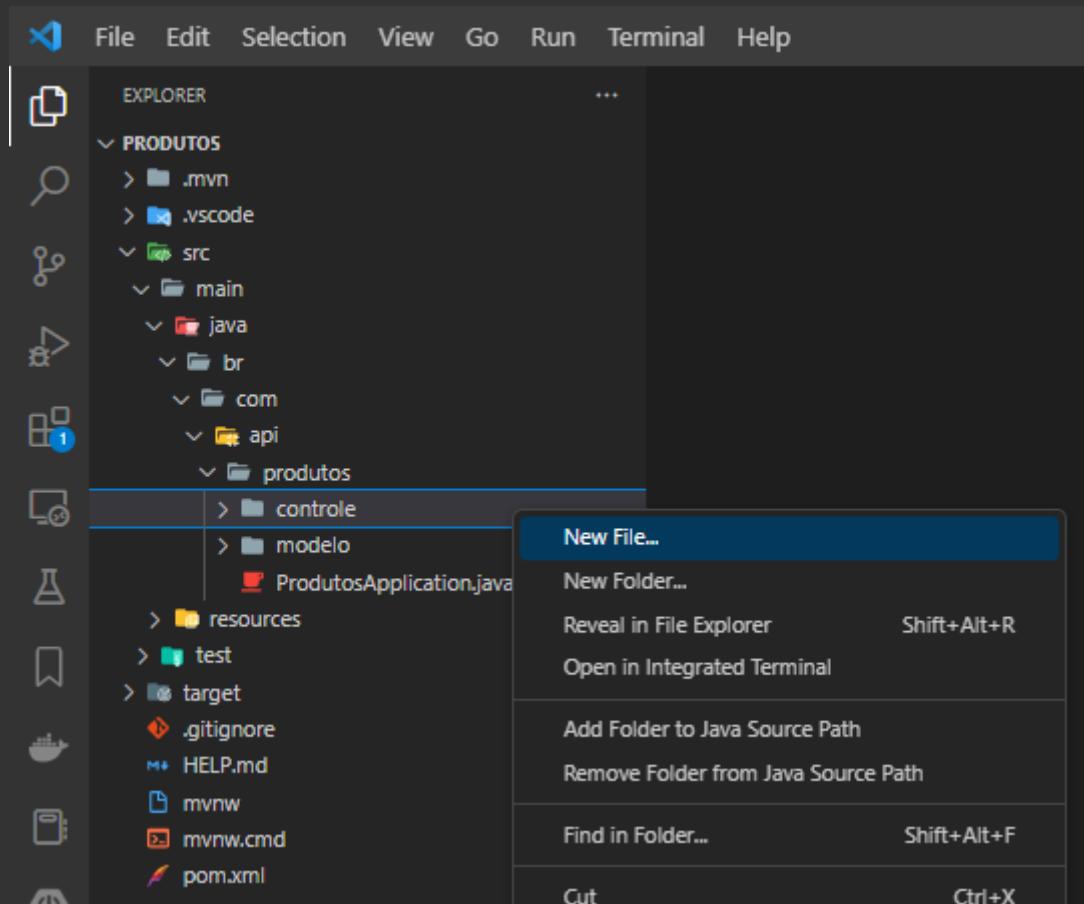
TERMINAL Run: ProdutosApplication + □ ✎ ▾ DI

```
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







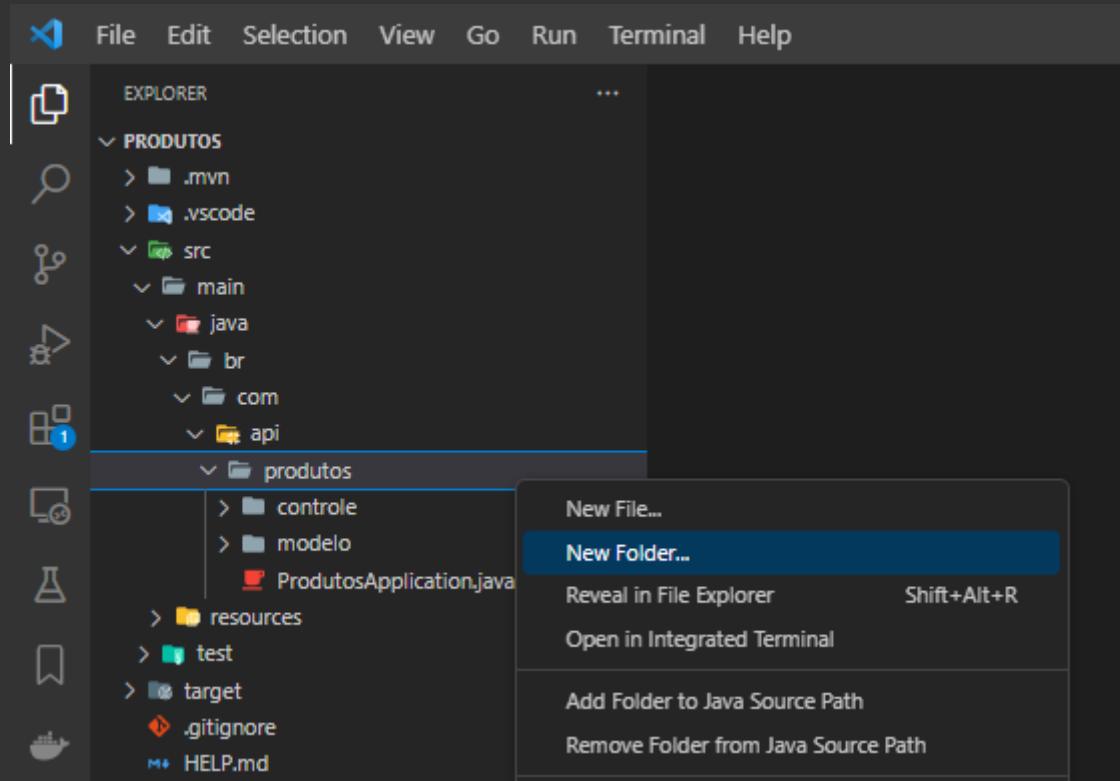
The screenshot shows the Visual Studio Code interface with a Java project open. The file `ProdutoControle.java` is currently being edited. The code completion dropdown is open at the end of the class definition, listing several options:

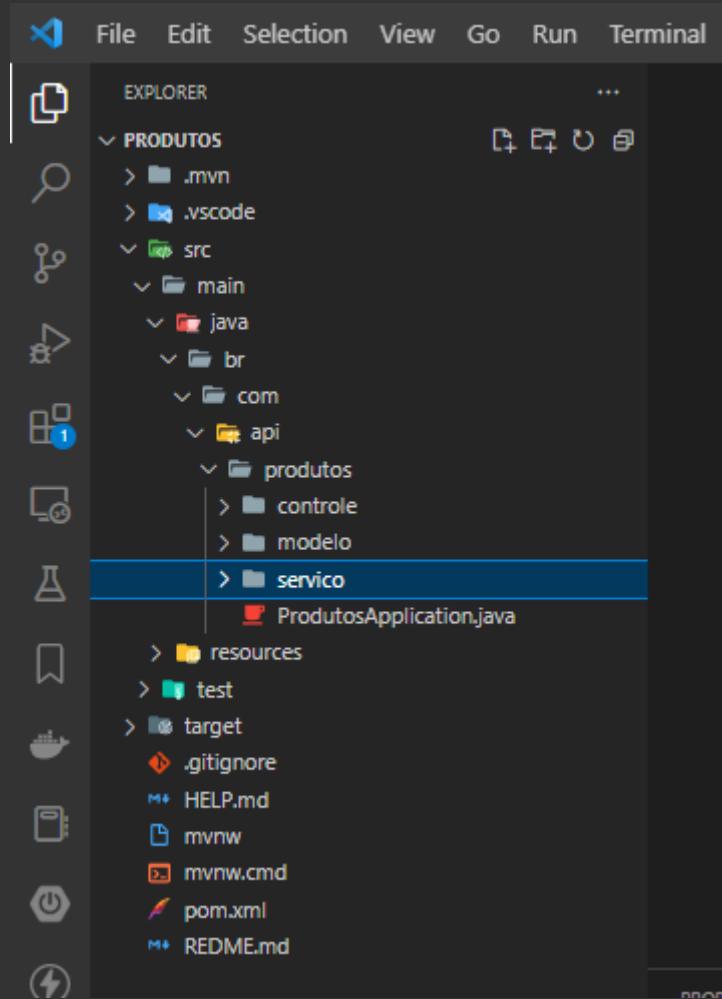
```
src > main > java > br > com > api > produtos > controle > ProdutoControle.java > ProdutoControle
1 package br.com.api.produtos.controle;
2
3 public class ProdutoControle {
4
5 }
```

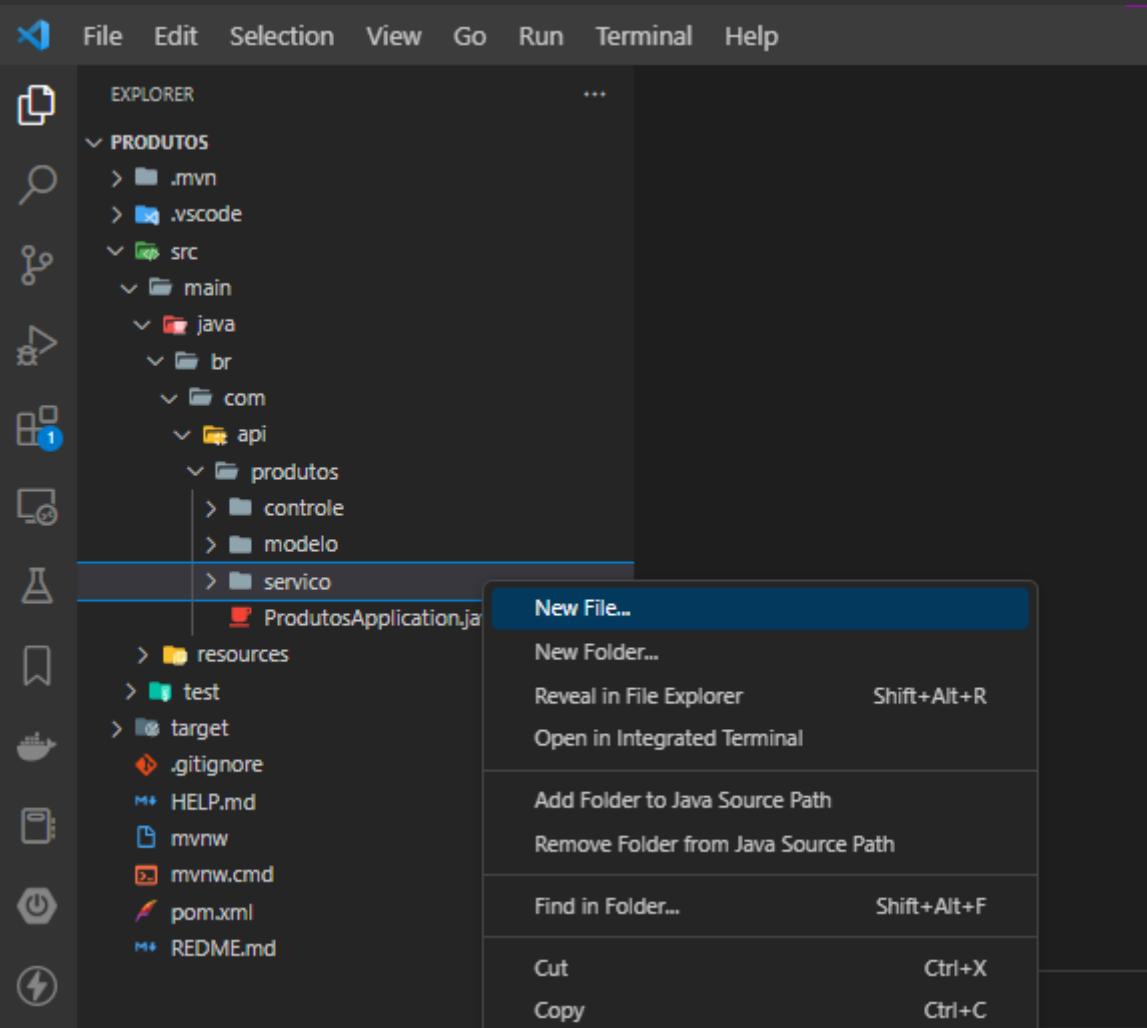
Completion suggestions:

- class ProdutoControle
- interface ProdutoControle
- enum ProdutoControle
- record ProdutoControle()
- abstract class ProdutoControle
- @interface ProdutoControle

A large green text overlay at the bottom right of the screen reads: "Salve e pode fechar esse arquivo".









File Edit Selection View Go Run Terminal Help

ProdutoServico.java - produtos - Visual Studio Code



EXPLORER

PRODUTOS

> .mvn

> .vscode

> src

> main

> java

> br

> com

> api

> produtos

> controle

> modelo

> servico

ProdutoServico.java

ProdutosApplication.java

> resources

> test

> target

.gitignore

HELP.md

mvnw

mvnw.cmd

pom.xml

REDME.md

ProdutoServico.java X

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

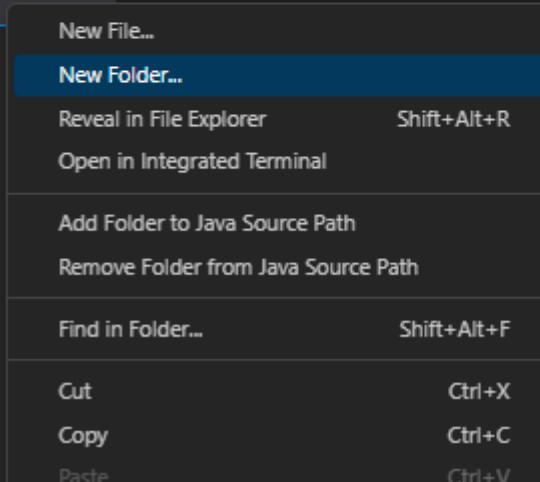
```
1 package br.com.api.produtos.servico;  
2  
3 public class ProdutoServico {  
4  
5 }  
6
```

Save e feche esse arquivo

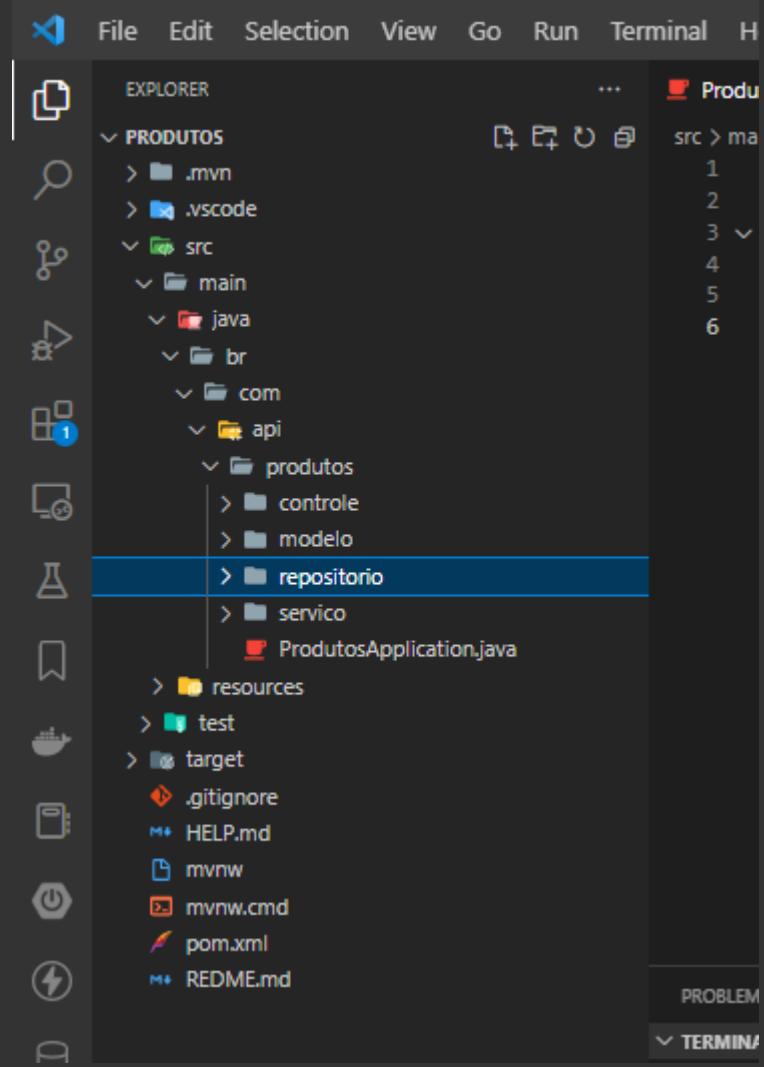
PROBLEMS OUTPUT TERMINAL

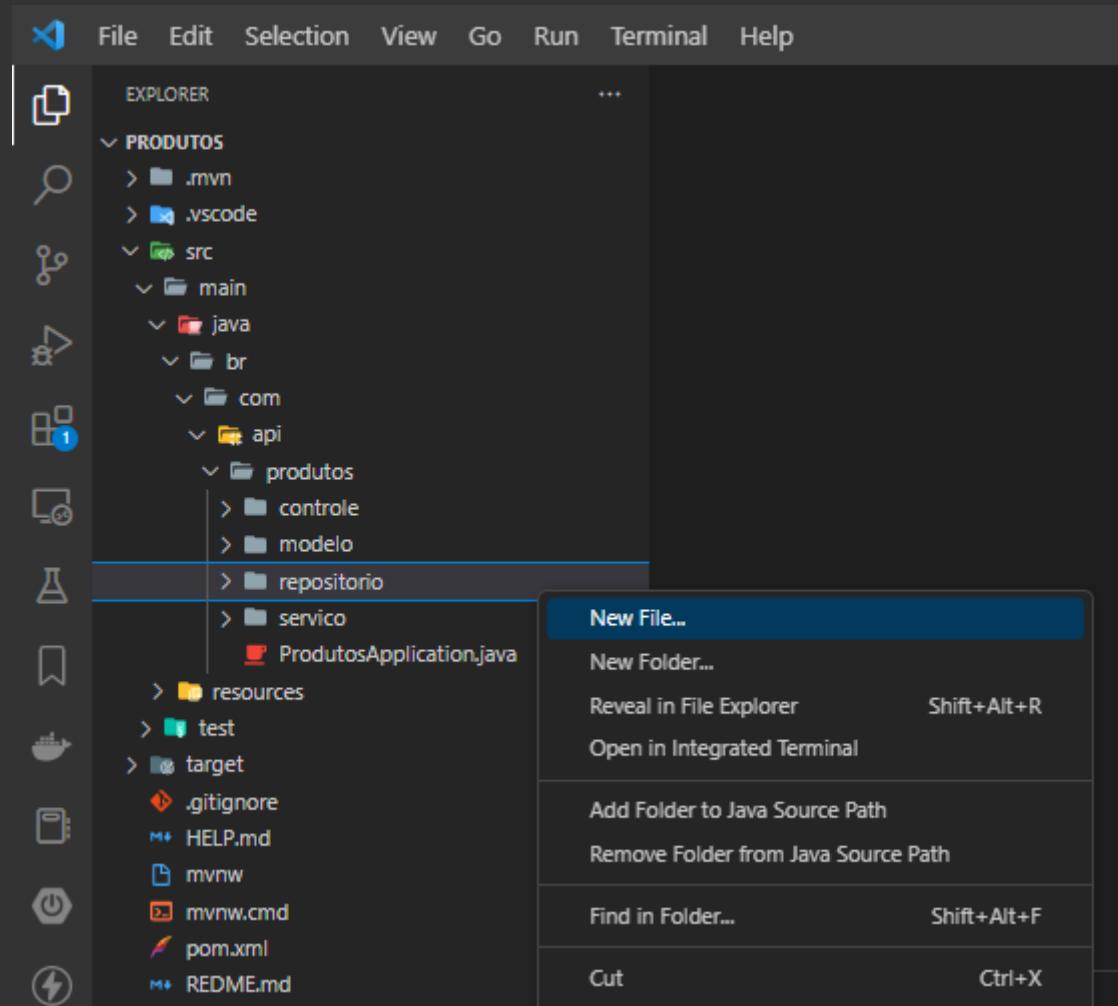
The screenshot shows the Visual Studio Code interface with a Java project open. The Explorer sidebar on the left displays the project structure under the 'PRODUTOS' folder:

- .mvn
- .vscode
- src
 - main
 - java
 - br
 - com
 - api
 - produtos
 - controle
 - modelo
 - servico
 - ProdutosApplication.java
 - resources
 - test
 - target
 - .gitignore
 - HELP.md
 - mvnw
 - mvnw.cmd
 - pom.xml
 - RFDMF.md



```
src > main > java > br > com > api > produtos > servico  
1 package br.com.api.produtos.servico;  
2  
3 public class ProdutoServico {  
4  
5 }  
6
```







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

M+ HELP.md

< mvnw

< mvnw.cmd

< pom.xml

M+ 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 class ProdutoRepositorio {  
4  
5 }  
6
```

PROBLEMS

OUTPUT

TERMINAL

▼ TERMINAL

File Edit Selection View Go Run Terminal Help

ProdutoRepository.java - produtos - Visual Studio Code

EXPLORER

PRODUTOS

- .mvn
- .vscode
- src
 - main
 - java
 - br
 - com
 - api
 - produtos
 - controle
 - modelo
 - repositorio
 - ProdutoRepository.java

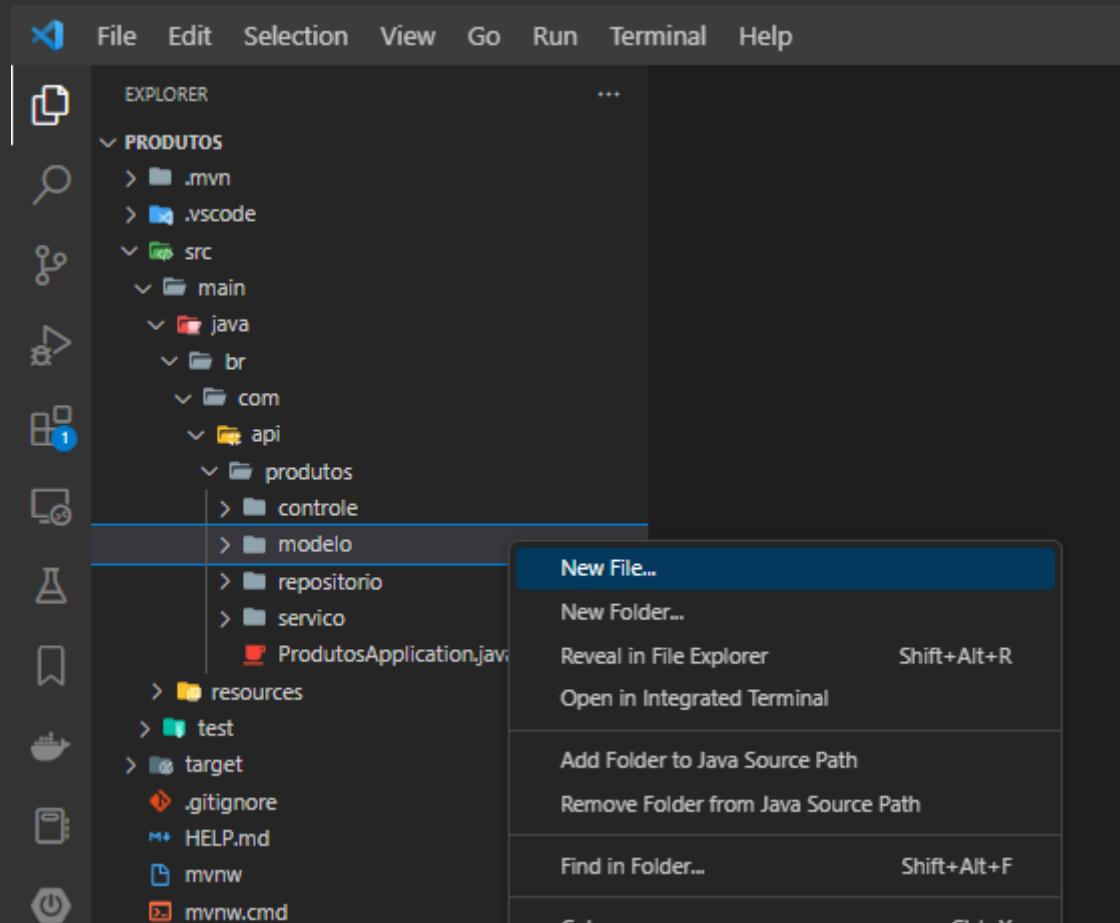
src > main > java > br > com > api > produtos > repositorio > ProdutoRepository.java > ...

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

Substitua class por interface
Pode salvar e fechar

PROBLEMS OUTPUT TERMINAL

TERMINAL





File Edit Selection View Go Run Terminal Help

RespostaModelo.java - produtos - Visual Studio Code



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

REDME.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

Save e pode fechar

PROBLEMS OUTPUT TERMINAL

TERMINAL

port 35729

#5
CONFIGURANDO O REPOSITORIO

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

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** ProdutoRepository.java - produtos - Visual Studio Code.
- Left Sidebar (Explorer):** Shows the project structure:
 - PRODUTOS
 - .mvn
 - .vscode
 - src
 - main
 - java
 - br
 - com
 - api
 - produtos
 - controle
 - modelo
 - repository
 - ProdutoRepository.java
 - servico
 - ProdutosApplication.java
 - resources
 - test
 - target
 - .gitignore
 - HELP.md
 - mvnw
 - mvnw.cmd
 - pom.xml
 - REDME.md
 - Central Area (Code Editor):** Displays the `ProdutoRepository.java` file content:

```
src > main > java > br > com > api > produtos > repositorio > ProdutoRepository.java > Language Support for Java(TM) by Red Hat > ProdutoRepository.java
1 package br.com.api.produtos.repositorio;
2
3 import org.springframework.data.repository.CrudRepository;
4 import org.springframework.stereotype.Repository;
5
6 import br.com.api.produtos.modelo.ProdutoModelo;
7
8 @Repository
9 public interface ProdutoRepository extends CrudRepository<ProdutoModelo, Long>{
10
11
12 }
```
 - Bottom Status Bar:** PROBLEMS 1, OUTPUT, TERMINAL.
 - Bottom Problems Panel:** Shows a single warning for the `@Repository` annotation:

```
Unnecessary '@Repository' vscode-spring-boot(JAVA_REPOSITORY) [Ln 8, Col 1]
```
 - Bottom Right:** Filter (e.g. text, **/*.ts, !**/node_modu...)

Text Overlay: Repare esse aviso no outro tutorial ensino a tirar

#6
CONFIGURANDO CONTROLE

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

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** ProdutoControle.java - SPRINGBOOT-REACT-2023 - Visual Studio Code
- Explorer View:** Shows the project structure under "SPRINGBOOT-REACT-2023".
 - Root: .vscode, .mvn, .vscode
 - produtos: .mvn, .vscode
 - src: .mvn, .vscode, main
 - java
 - br
 - com
 - api
 - produtos
 - controle
 - ProdutoControle.java
 - modelos
 - repositorio
 - servico
 - ProdutosApplication.java
 - resources
 - test
 - target
 - .gitignore
 - HELP.md
 - mvnw
 - mvnw.cmd
- Code Editor:** The file "ProdutoControle.java" is open, showing the following code:

```
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
```

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

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** ProdutosApplication.java - SPRINGBOOT-REACT-2023 - Visual Studio Code.
- Explorer View:** Shows the project structure under SPRINGBOOT-REACT-2023:
 - .vscode
 - produtos (selected)
 - .mvn
 - .vscode
 - src
 - main
 - java
 - br
 - com
 - api
 - produtos
 - controle
 - ProdutoControle.java
 - modelo
 - repositorio
 - servico
 - resources
 - test
 - target
- Code Editor:** Shows the content of 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 }
```
- Terminal:** Not visible in the screenshot.

Rode o projeto pra testar

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
- ProdutosApplication.java

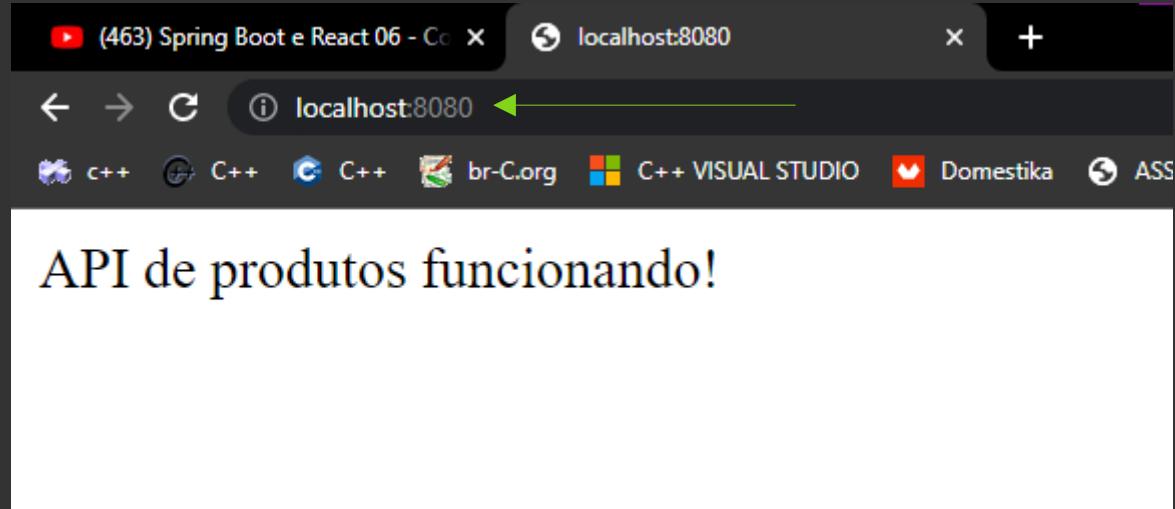
PROBLEMS 1 OUTPUT TERMINAL DEBUG CONSOLE

TERMINAL

```
on port 35729
2023-01-31T12:51:24.437-03:00 INFO 8012 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8
080 (http) with context path ''
2023-01-31T12:51:24.473-03:00 INFO 8012 --- [ restartedMain] b.com.api.produtos.ProdutosApplication : Started ProdutosApplication
in 11.34 seconds (process running for 12.72)
2023-01-31T12:51:46.599-03:00 INFO 8012 --- [nio-8080-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring Dispatch
erServlet 'dispatcherServlet'
2023-01-31T12:51:46.612-03:00 INFO 8012 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Initializing Servlet 'dispat
cherServlet'
2023-01-31T12:51:46.629-03:00 INFO 8012 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Completed initialization in
15 ms
```

Mesmo com esse warning o programa roda

Ln 1, Col 1 Tab Size: 4 UTF-8 Java Go Live 33°C Parc en... 12:51



#7
MODELO PARA VALIDAR REQUISIÇÕES

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



EXPLORER

SPRINGBOOT-REACT-2023

> .vscode

> produtos

> .mvn

> .vscode

> src

> main

> java

> br

> com

> api

> produtos

> controle

ProdutoControle.java M

> modelo

ProdutoModelo.java M

RespostaModelo.java M

> repositorio

> servico

ProdutosApplication.java

> OUTLINE

> TIMELINE

> JAVA PROJECTS

ProdutosApplication

> {} br.com.api.produtos.controle

ProdutoControle M

> {} br.com.api.produtos.modelo

ProdutoModelo M

RespostaModelo M

> MAVEN

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

```
1 package br.com.api.produtos.modelo;
2
3 import org.springframework.stereotype.Component;
4
5 import lombok.Getter;
6 import lombok.Setter;
7
8 // ANOTATION RESPONSAVEL POR INSTANCIAR OBJETOS
9 @Component
10 @Getter
11 @Setter
12 public class RespostaModelo {
13
14     // ATRIBUTO
15     private String mensagem;
16 }
```

PROBLEMS 1 OUTPUT TERMINAL

TERMINAL

ion : 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
2023-01-31T13:06:46.798-03:00 INFO 8012 --- [restartedMain] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on port 35729
2023-01-31T13:06:46.869-03:00 INFO 8012 --- [restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path ''
2023-01-31T13:06:46.914-03:00 INFO 8012 --- [restartedMain] br.com.api.produtos.ProdutosApplication : Started ProdutosApplication in 2.015 seconds (process running for 935.161)
2023-01-31T13:06:46.932-03:00 INFO 8012 --- [restartedMain] .ConditionEvaluationDeltaLoggingListener : Condition evaluation unchanged

#8 SERVIÇO PARA LISTAR PRODUTOS

#9
ROTA PARA PRODUTOS

File Edit Selection View Go Run Terminal Help ProdutoControle.java - SPRINGBOOT-REACT-2023 - Visual Studio Code

EXPLORER

SPRINGBOOT-REACT-2023

- .vscode
- produtos
- .mvn
- .vscode
- src
 - main
 - java
 - br
 - com
 - api
 - produtos
 - controle
 - modelos
 - repositorio
 - servico
 - ProdutoServico.java
 - ProdutosApplication.java
 - resources

OUTLINE

TIMELINE

JAVA PROJECTS

- ProdutoControle
 - br.com.api.produtos.modelo
 - ProdutoModelo
 - RespostaModelo
 - br.com.api.produtos.repositorio

MAVEN

PROBLEMS 1 OUTPUT TERMINAL

TERMINAL

: Condition evaluation unchanged

DEBUG CONSOLE

Ln 20, Col 5 Spaces: 4 UTF-8 CRLF { Java Go Live 34°C Parc en... 13:25

```
package br.com.api.produtos.controle;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RestController;

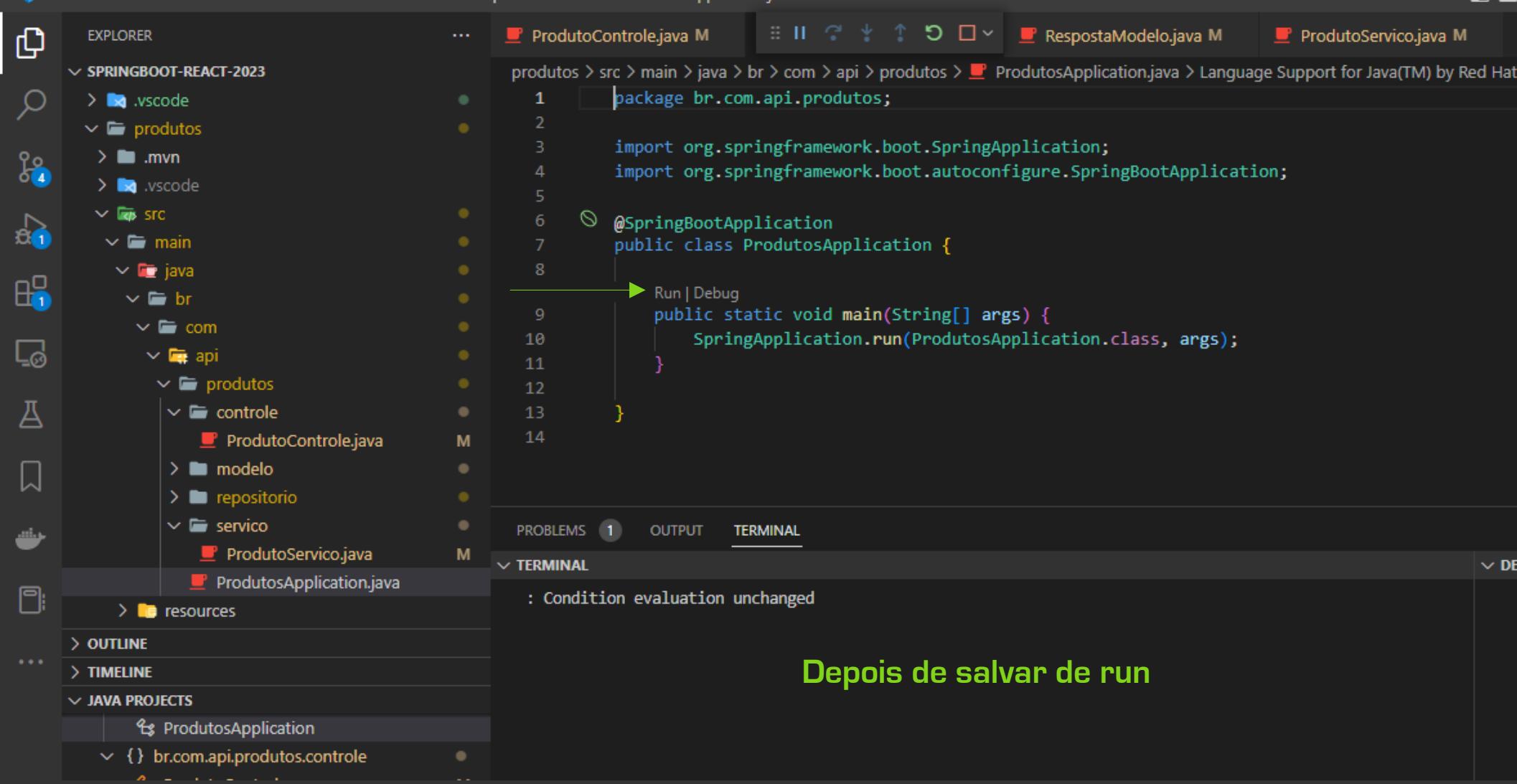
import br.com.api.produtos.modelo.ProdutoModelo;
import br.com.api.produtos.servico.ProdutoServico;

@RestController
public class ProdutoControle {

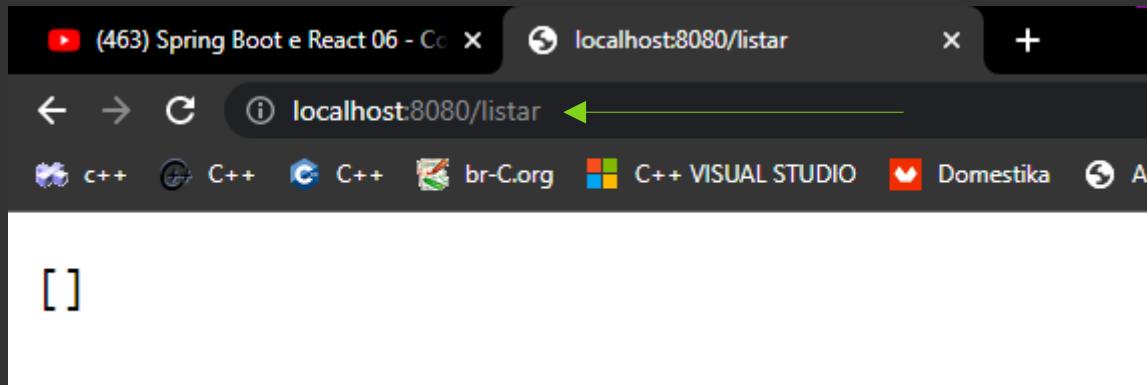
    @Autowired
    private ProdutoServico ps;

    @GetMapping("/listar")
    public Iterable<ProdutoModelo> listar(){
        return ps.listar();
    }

    // CRIANDO ROTAS
    @GetMapping("/")
    public String rota(){
        return "API de produtos funcionando!";
    }
}
```

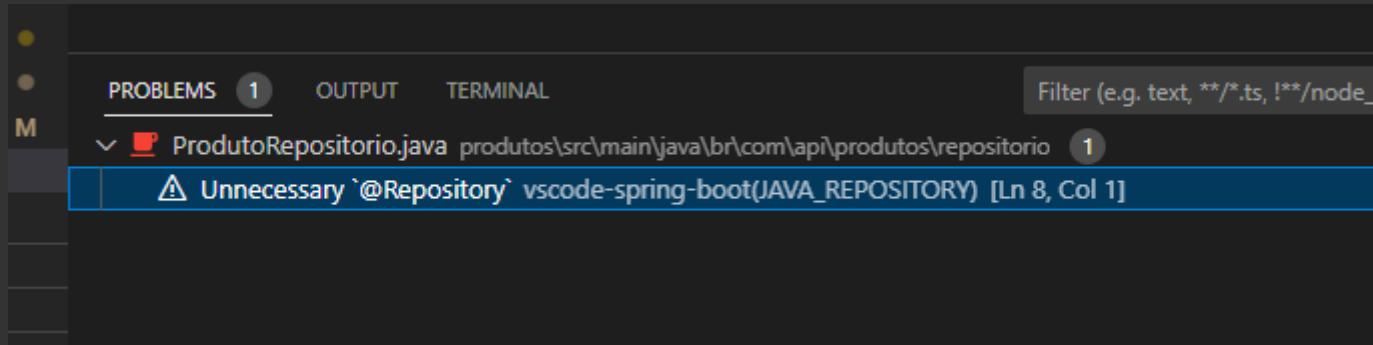


Depois de salvar de run



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

#10
SERVICO PARA CADASTRAR PRODUTOS



O ERRO ATE AQUI É ESSE E ESTA TUDO RODANDO

File Edit Selection View Go Run Terminal Help

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

PROBLEMS 1 OUTPUT TERMINAL

TERMINAL

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

```
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;
20
21     // METODO PARA LISTAR TODOS OS PRODUTOS
22     public Iterable<ProdutoModelo> listar() {
```

ADICIONE OS IMPORTS E TUDO MAIS

File Edit Selection View Go Run Terminal Help

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

EXPLORER

SPRINGBOOT-REACT-2023

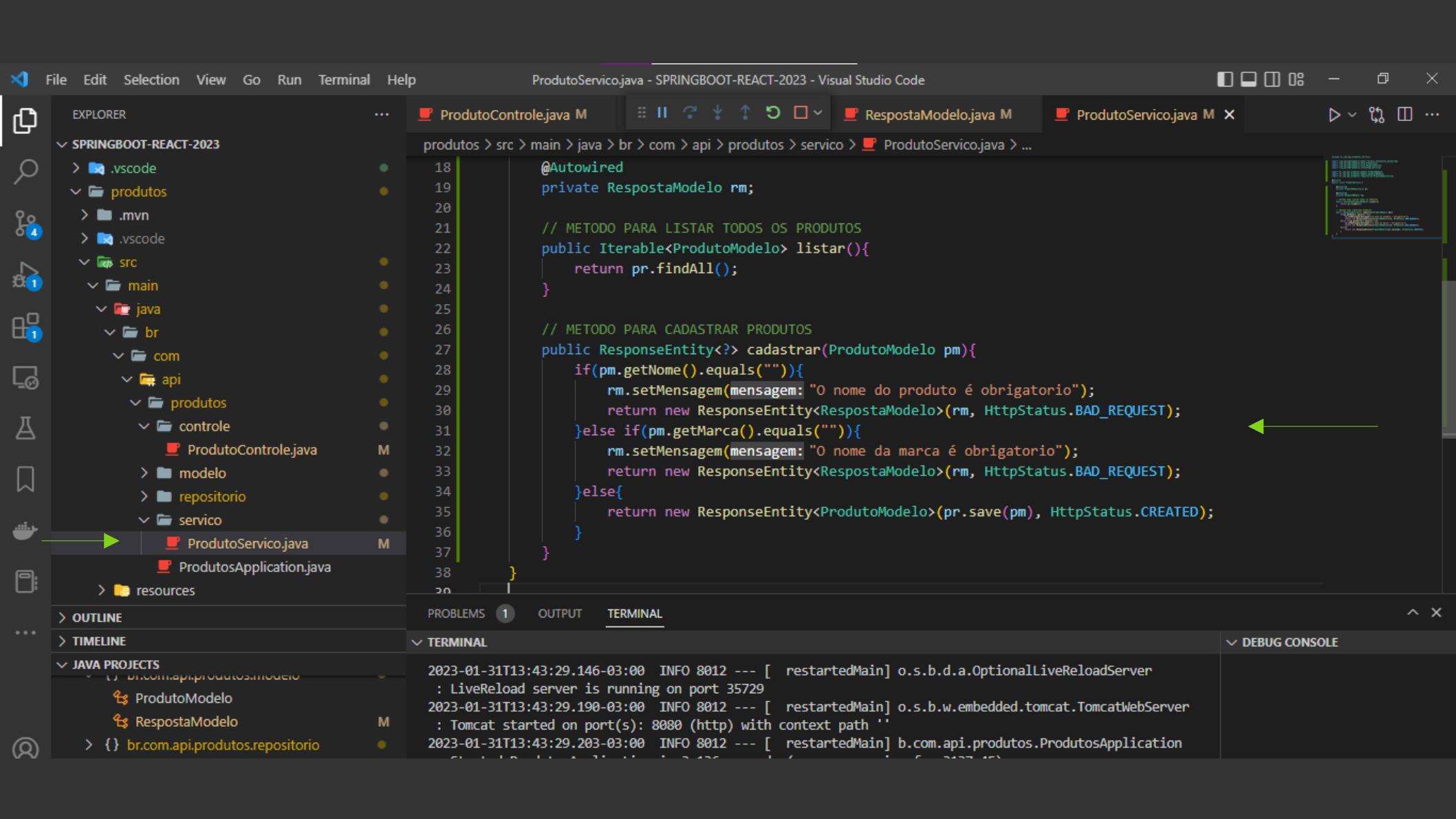
- .vscode
- produtos
 - .mvn
 - .vscode
- src
 - main
 - java
 - br
 - com
 - api
 - produtos
 - controle
 - ProdutoControle.java
 - modelo
 - repositorio
 - servico
 - ProdutoServico.java
 - ProdutosApplication.java
 - resources

PROBLEMS 1 OUTPUT TERMINAL

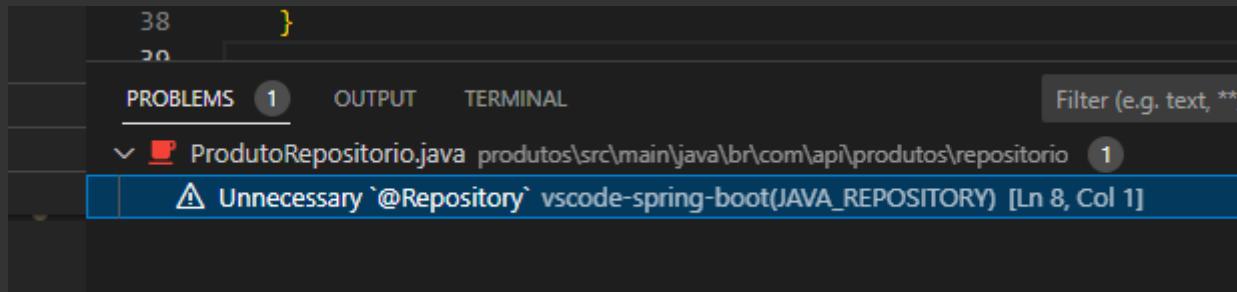
TERMINAL

```
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
```

DEBUG CONSOLE



Até aqui ele continua mas roda de boa



#11
ROTA PARA CADASTRAR PRODUTOS



EXPLORER

SPRINGBOOT-REACT-2023

produtos

.mvn

.vscode

src

main

java

br

com

api

produtos

controle

ProdutoControle.java

modelo

repository

servico

ProdutoServico.java

ProdutosApplication.java

resources

test

target

citanegro

> OUTLINE

> TIMELINE

JAVA PROJECTS

br.com.api.produtos

{ br.com.api.produtos.control

ProdutoControle

2

... ProdutoControle.java 2

RespostaModelo.java

ProdutoServico.java

README.md

```
 1 package br.com.api.produtos.control;
 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 ProdutoControle {
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

• ProdutoControle.java produtos\src\main\java\br\com\api\produtos\control 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]

• ProdutoRepository.java produtos\src\main\java\br\com\api\produtos\repository 1

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

Filter (e.g. text, **/*.ts, **/node_module)

inal Help

• ProdutoControle.java - SPRINGBOOT-REACT-2023 - Visual Studio Code

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

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

```
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     }
}
```

Os erros eram porque
faltavam os imports

PROBLEMS 1

OUTPUT

TERMINAL

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

✓ ProdutoRepository.java produtos/src/main/java(br\com\api\produtos\repositorio 1

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



EXPLORER

...

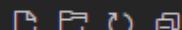
ProdutoControle.java M

RespostaModelo.java

ProdutosApplication.java X

ProdutoServico.java

SPRINGBOOT-REACT-2023



produtos > src > main > java > br > com > api > produtos > ProdutosApplication.java > Language Support for Java



.mvn



.vscode



produtos



main



java



br



com



api



produtos



controle

ProdutoControle.java M



modelo

ProdutoModelo.java

RespostaModelo.java



repositorio



servico

ProdutoServico.java

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 }
```

execute

PROBLEMS 1

OUTPUT

TERMINAL

TERMINAL

PS E:\SPRINGBOOT-REACT-2023> []

> OUTLINE

> TIMELINE

> JAVA PROJECTS

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

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** ProdutosApplication.java - SPRINGBOOT-REACT-2023 - Visual Studio Code.
- Explorer View:** Shows the project structure under 'SPRINGBOOT-REACT-2023'. Key files include `ProdutoControle.java`, `ProdutosApplication.java`, `ProdutoServico.java`, and `REDME.md`.
- Code Editor:** Displays the `ProdutosApplication.java` file, which contains the main class definition:

```
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 }
```

- Terminal:** Shows the output of the application run command. It includes logs from the application startup and the message "Aplicação rodando va no thunderclient".
- Debug Console:** Shows the selection of the 'powershell' terminal.

Aplicação rodando va no thunderclient

```
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.Prod
utosApplication : Started ProdutosApplication in 13.7 seconds (process running for 15.
18)
```

File Edit Selection View Go Run Terminal Help New Request - SPRINGBOOT-REACT-2023 - Visual Studio Code

THUNDER CLIENT

New Request

Activity Collections Env

filter activity

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

POST localhost:8080/pessoa 8 days ago

DEL localhost:8080/api/2 8 days ago

ProductControl.java M RespostaModelo.java New Request X ProdutoServico.java README.md

POST localhost:8080/cadastrar

Send

Status: Size: Time:

Response Headers Cookies Results Docs

Json XML Text Form Form-encode GraphQL Binary

Format

```
1 {  
2   "nome": "",  
3   "marca": ""  
4 }  
5
```

Send Request Ctrl + Enter

Import Curl Ctrl + U

Change Environment Ctrl + E

Git Sync Details

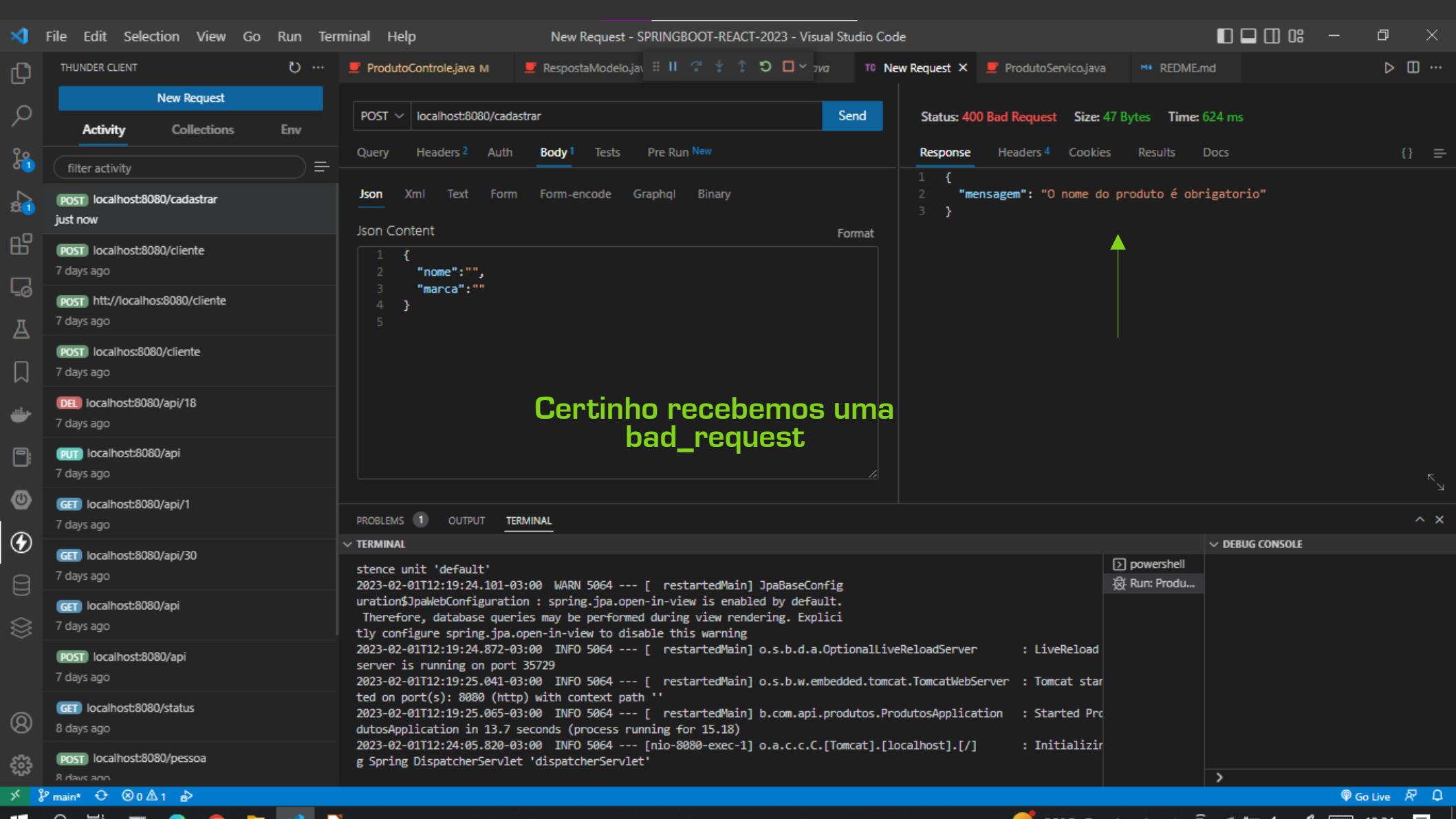
PROBLEMS 1 OUTPUT TERMINAL DEBUG CONSOLE

TERMINAL

```
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.OptionalLiveReloadServer      : 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 star  
ted on port(s): 8080 (http) with context path ''  
2023-02-01T12:19:25.065-03:00  INFO 5064 --- [ restartedMain] b.com.api.produtos.ProdutosApplication : Started Pro  
dutosApplication in 13.7 seconds (process running for 15.18)
```

powershell Run: Prod...

main Go Live



File Edit Selection View Go Run Terminal Help New Request - SPRINGBOOT-REACT-2023 - Visual Studio Code

THUNDER CLIENT

New Request

Activity Collections Env

filter activity

POST localhost:8080/cadastrar just now

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

POST localhost:8080/pessoa R三天前

ProductController.java M RespostaModelo.java JVA New Request X ProdutoServico.java README.md

POST localhost:8080/cadastrar Send

Query Headers 2 Auth Body 1 Tests Pre Run New

Json XML Text Form Form-encode GraphQL Binary

Json Content Format

```
1 {
2   "nome": "iPhone 13",
3   "marca": ""
4 }
```

Status: 400 Bad Request Size: 45 Bytes Time: 10 ms

Response Headers 4 Cookies Results Docs

```
1 {
2   "mensagem": "O nome da marca é obrigatorio"
3 }
```

VALIDAÇÃO DE DADOS CORRETA PRECISAMOS PASSAR OS DOIS PRA SER VALIDADO

PROBLEMS 1 OUTPUT TERMINAL

TERMINAL

```
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.OptionalLiveReloadServer      : 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 star
ted on port(s): 8080 (http) with context path ''
2023-02-01T12:19:25.065-03:00  INFO 5064 --- [ restartedMain] b.com.api.produtos.ProdutosApplication : Started Pro
ductosApplication in 13.7 seconds (process running for 15.18)
2023-02-01T12:24:05.820-03:00  INFO 5064 --- [nio-8080-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/]      : Initializin
g Spring DispatcherServlet 'dispatcherServlet'
```

DEBUG CONSOLE

powershell Run: Produ...

File Edit Selection View Go Run Terminal Help New Request - SPRINGBOOT-REACT-2023 - Visual Studio Code

THUNDER CLIENT

New Request

Activity Collections Env

filter activity

POST localhost:8080/cadastrar just now

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

POST localhost:8080/pessoa 8 days ago

ProductController.java M RespostaModelo.java JVA New Request X ProdutoServico.java README.md

POST localhost:8080/cadastrar Body 1 Tests Pre Run New

Status: 201 Created Size: 47 Bytes Time: 573 ms

Response Headers 4 Cookies Results Docs

```
1 {  
2   "codigo": 1,  
3   "nome": "iPhone 13",  
4   "marca": "Apple"  
5 }
```

Agora a validação de dados funciona

PROBLEMS 1 OUTPUT TERMINAL

TERMINAL

```
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.OptionalLiveReloadServer : 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 star  
ted on port(s): 8880 (http) with context path ''  
2023-02-01T12:19:25.065-03:00  INFO 5064 --- [ restartedMain] b.com.api.produtos.ProdutosApplication : Started Pro  
dutosApplication in 13.7 seconds (process running for 15.18)  
2023-02-01T12:24:05.820-03:00  INFO 5064 --- [nio-8080-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializ  
g Spring DispatcherServlet 'dispatcherServlet'
```

powershell Run: Produ...

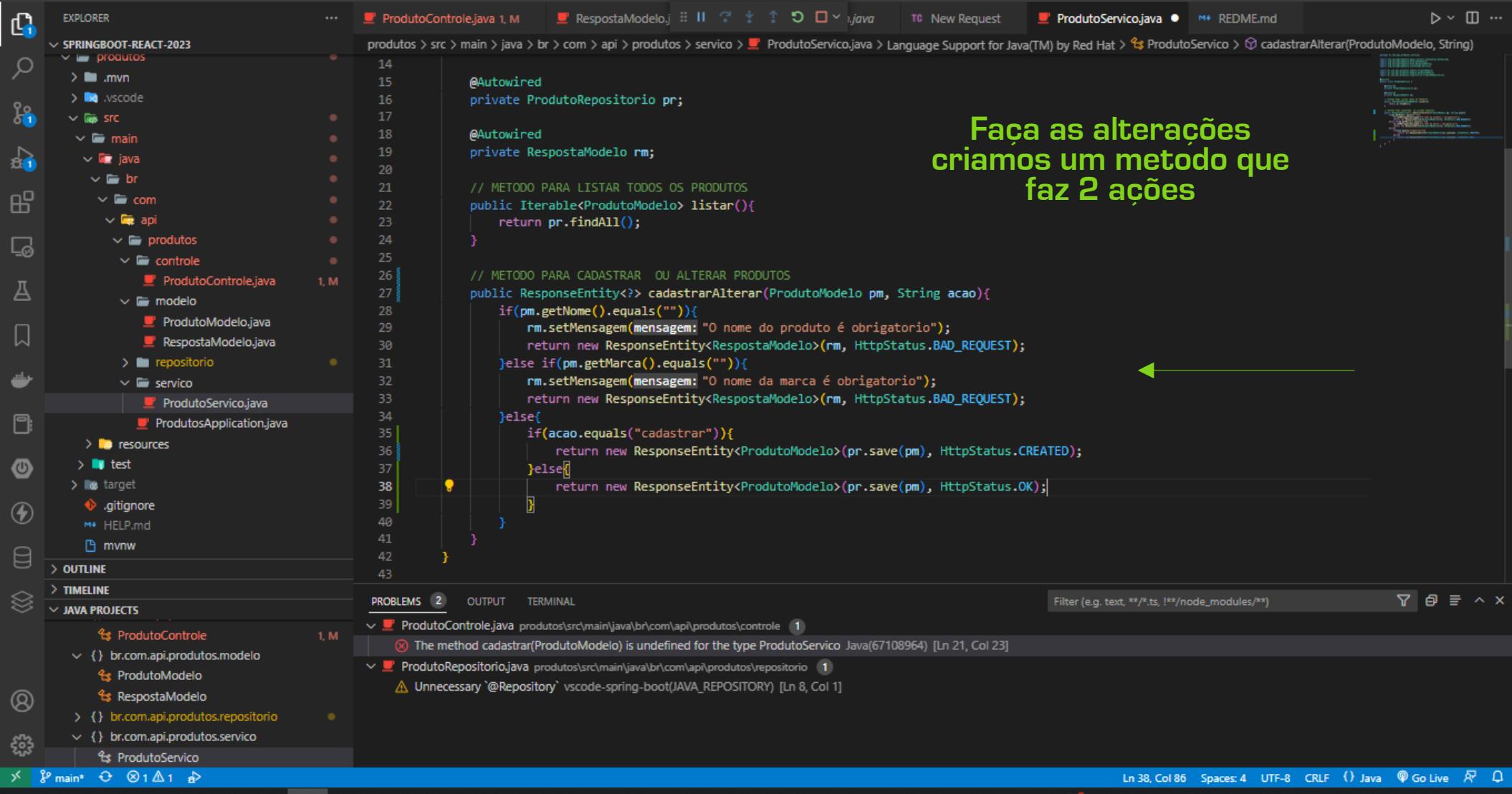
DEBUG CONSOLE

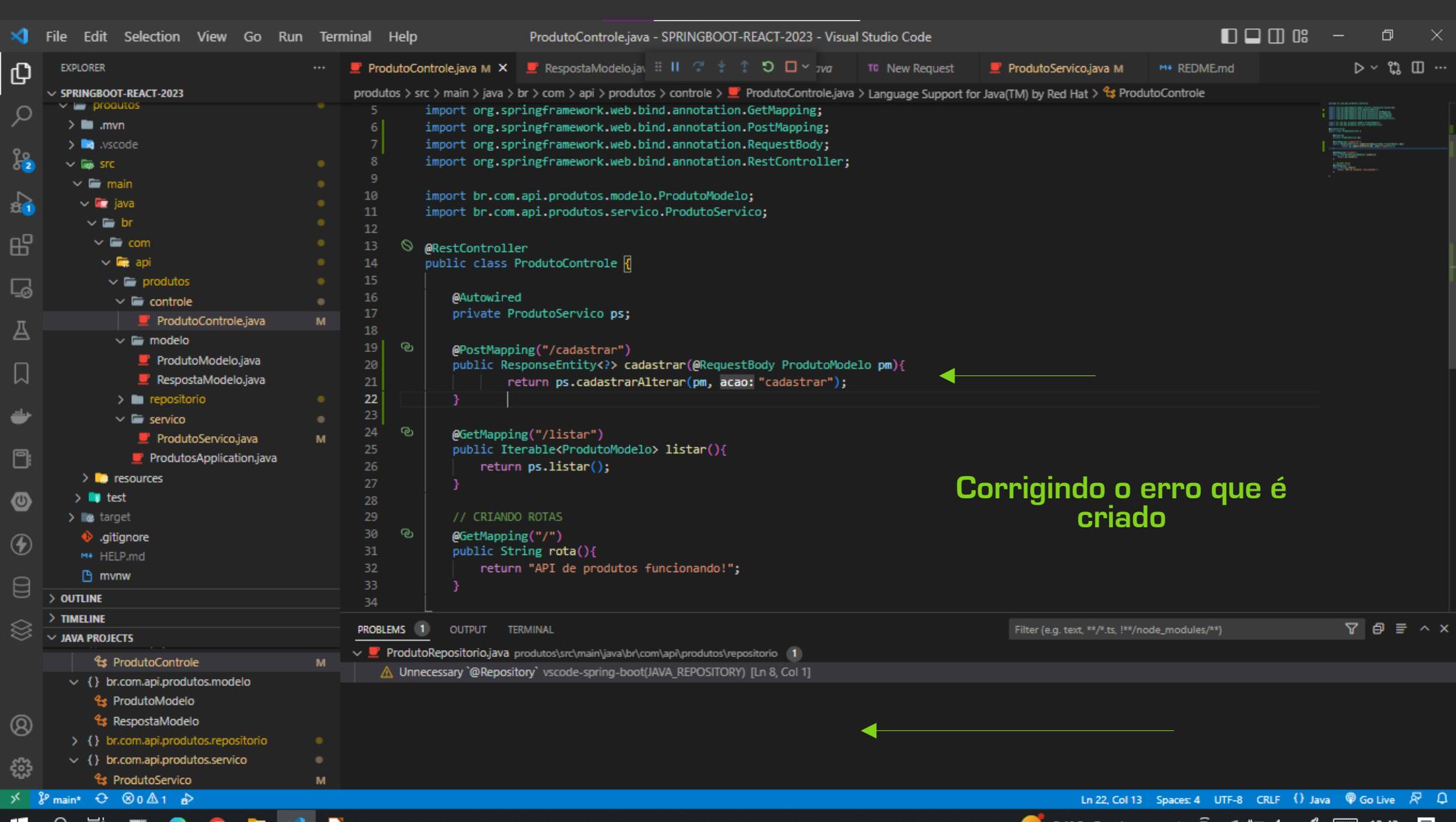
main* Go Live

33°C Ensolarado

12:26

#12
SERVIÇO PARA ALTERAR PRODUTO





#13
ROTA PARA ALTERAR PRODUTOS

File Edit Selection View Go Run Terminal Help

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

EXPLORER

SPRINGBOOT-REACT-2023

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

PROBLEMS OUTPUT TERMINAL

No problems have been detected in the workspace.

```
1 package br.com.api.produtos.repositorio;
2
3 import org.springframework.data.repository.CrudRepository;
4 import org.springframework.stereotype.Repository;
5
6 import br.com.api.produtos.modelo.ProdutoModelo;
7
8 // O GOOGLE DIZ QUE NÃO PRECISA USAR ISSO EM CLASSES QUE ESTENDEM DE JPA
9 @Repository
10 public interface ProdutoRepositorio extends CrudRepository<ProdutoModelo, Long>{
11
12 }
13
14 }
```

FUI COMENTAR A LINHA E O ERRO SUMIU

File Edit Selection View Go Run Terminal Help ProdutoControle.java - SPRINGBOOT-REACT-2023 - Visual Studio Code

EXPLORER

SpringBoot-React-2023

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

ProdutoControle.java M

ProdutoRepository M

p.java

New Request

ProdutoServico.java M

REDME.md

Language Support for Java(TM) by Red Hat

ProdutoControle

```
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.PutMapping;
8 import org.springframework.web.bind.annotation.RequestBody;
9 import org.springframework.web.bind.annotation.RestController;
10
11 import br.com.api.produtos.modelo.ProdutoModelo;
12 import br.com.api.produtos.servico.ProdutoServico;
13
14 @RestController
15 public class ProdutoControle {
16
17     @Autowired
18     private ProdutoServico ps;
19
20     @PutMapping("/alterar")
21     public ResponseEntity<?> alterar(@RequestBody ProdutoModelo pm){
22         return ps.cadastrarAlterar(pm, acao: "alterar");
23     }
24
25     @PostMapping("/cadastrar")
26     public ResponseEntity<?> cadastrar(@RequestBody ProdutoModelo pm){
27         return ps.cadastrarAlterar(pm, acao: "cadastrar");
28     }
29
30     @GetMapping("/listar")
```

OUTLINE

TIMELINE

JAVA PROJECTS

- ProdutoControle
 - br.com.api.produtos.modelo
 - ProdutoModelo
 - RespostaModelo
 - br.com.api.produtos.repository
 - ProdutoRepository
 - br.com.api.produtos.servico

PROBLEMS

OUTPUT

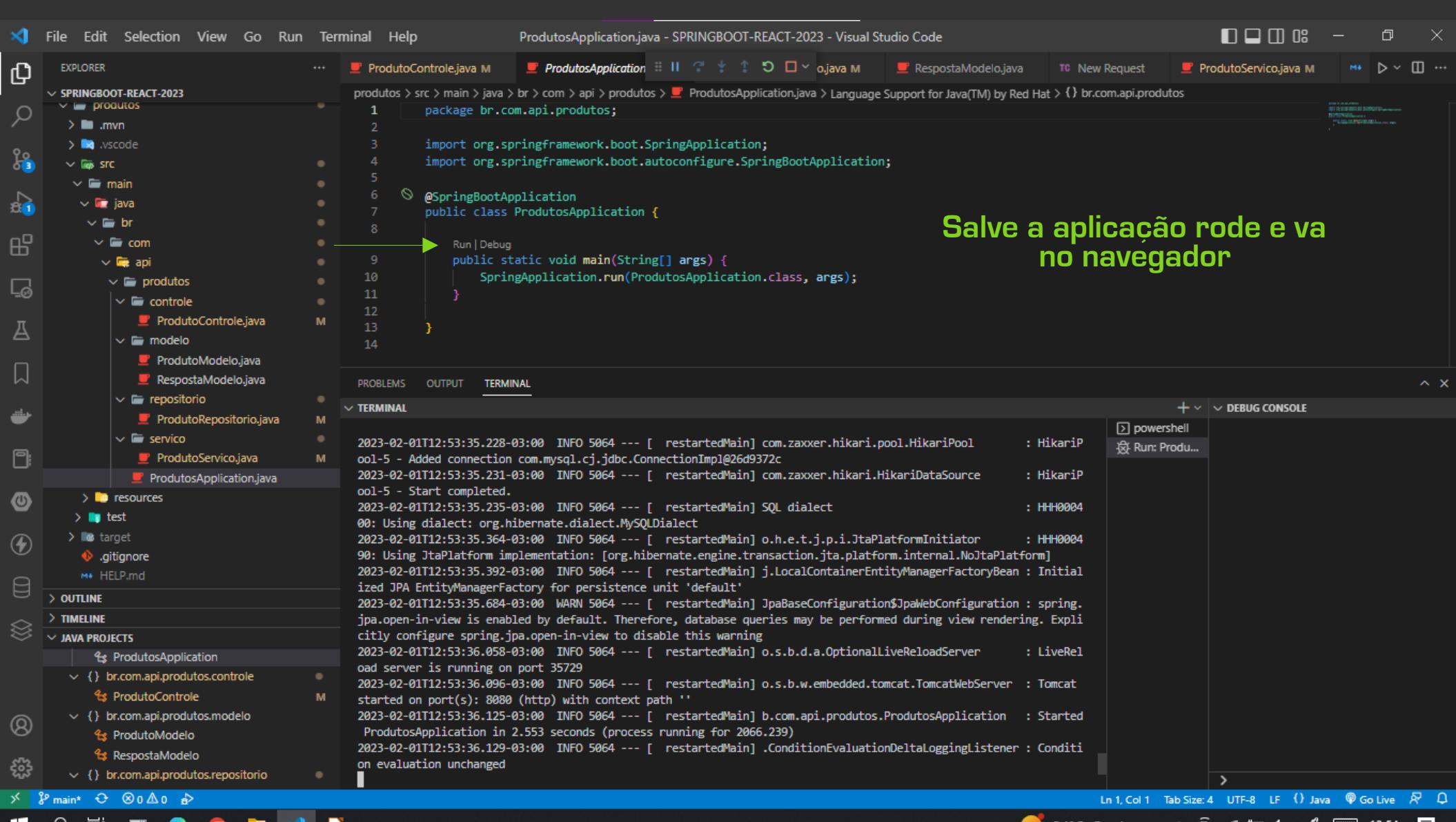
TERMINAL

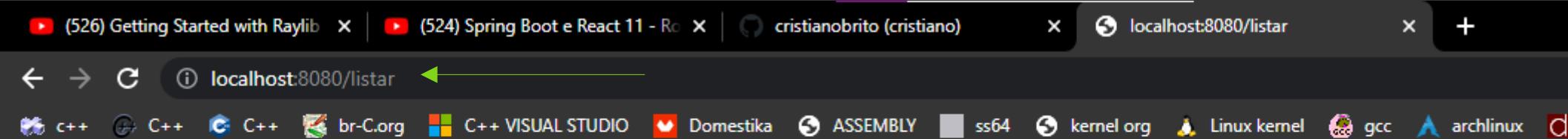
2023-02-01T12:19:25.041-03:00 INFO 5064 --- [restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path ''
2023-02-01T12:19:25.065-03:00 INFO 5064 --- [restartedMain] b.com.api.produtos.ProdutosApplication : Started dutosApplication in 13.7 seconds (process running for 15.18)
2023-02-01T12:24:05.820-03:00 INFO 5064 --- [nio-8080-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initial g Spring DispatcherServlet 'dispatcherServlet'
2023-02-01T12:24:05.821-03:00 INFO 5064 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Initial

powershell

Run: Produ...

Ln 24, Col 1 Spaces: 4 UTF-8 CRLF Java Go Live





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

Agora vamos no thunderclient alterar esse objeto

File Edit Selection View Go Run Terminal Help New Request - SPRINGBOOT-REACT-2023 - Visual Studio Code

THUNDER CLIENT

New Request

Activity Connections Env

filter activity

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

POST localhost:8080/pessoa 8 days ago

PUT localhost:8080/alterar

Send

Status: Size: Time:

Response Headers Cookies Results Docs

Json XML Text Form Form-encode GraphQL Binary

Format

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

Send Request Ctrl + Enter

Import Curl Ctrl + U

Change Environment Ctrl + E

Git Sync Details

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
```

DEBUG CONSOLE

powershell

Run: Produ...

File Edit Selection View Go Run Terminal Help New Request - SPRINGBOOT-REACT-2023 - Visual Studio Code

THUNDER CLIENT

New Request

Activity Collections Env filter activity

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 DEBUG CONSOLE

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...

Atualizando o navegador temos os dados alterados



A screenshot of a dark-themed browser window. The address bar shows the URL `localhost:8080/listar`. The main content area displays a JSON array:

```
[{"codigo":1,"nome":"Galaxy S22","marca":"Samsung"}]
```

#14
SERVIÇO PARA REMOVER PRODUTOS

File Edit Selection View Go Run Terminal Help • ProdutoServico.java - SPRINGBOOT-REACT-2023 - Visual Studio Code

EXPLORER ProdutosApplication.java New Request .java M RespostaModelo.java New Request ProdutoServico.java 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     // METODO PARA REMOVER PRODUTOS
43     public ResponseEntity<RespostaModelo> remover(long codigo){
44
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
```

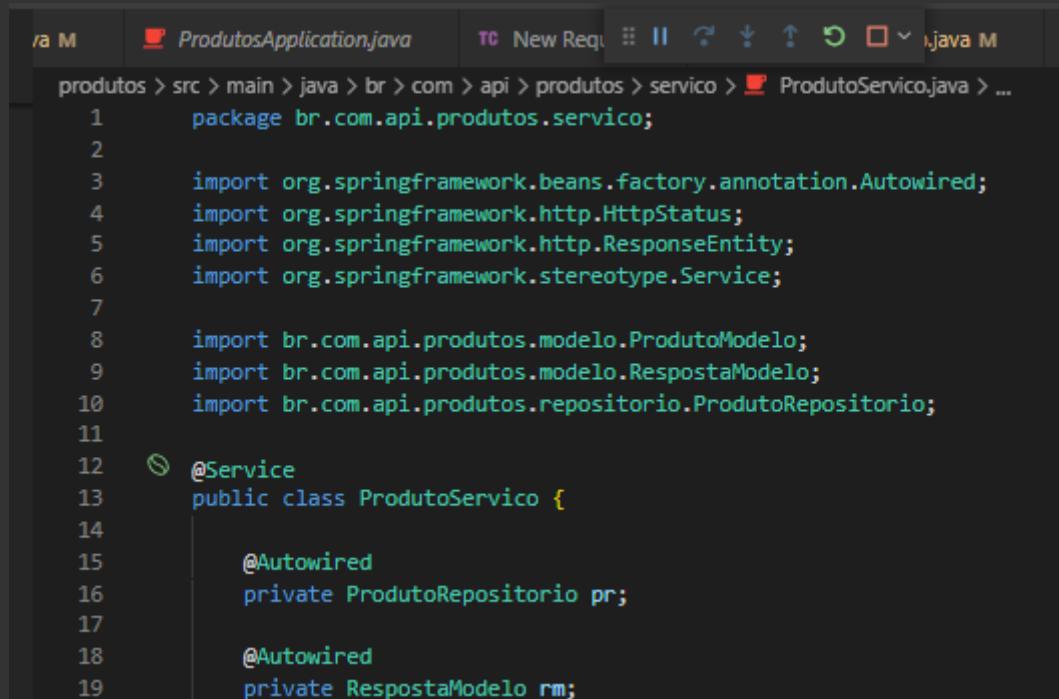
OUTLINE TIMELINE JAVA PROJECTS

PROBLEMS OUTPUT TERMINAL Filter (e.g. text, **/*.ts, !**/node_modules/**)

No problems have been detected in the workspace.

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

Uma espiadinha nos imports pra não ter duvida



A screenshot of a Java code editor showing the file `ProdutosApplication.java`. The code is as follows:

```
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 umplementar a rota para a exclusão

#15
ROTA PARA REMOVER PRODUTOS

File Edit Selection View Go Run Terminal Help

• ProdutoControle.java - SPRINGBOOT-REACT-2023 - Visual Studio Code

EXPLORER

SpringBoot-React-2023

produtos

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

ProdutoControle.java M

ProdutosApplication M

ProdutoRepositorio.java M

RespostaModelo.java

New Request

Prod

Language Support for Java(TM) by Red Hat

ProdutoControle

```
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.DeleteMapping;
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.PutMapping;
10 import org.springframework.web.bind.annotation.RequestBody;
11 import org.springframework.web.bind.annotation.RestController;
12
13 import br.com.api.produtos.modelo.ProdutoModelo;
14 import br.com.api.produtos.modelo.RespostaModelo;
15 import br.com.api.produtos.servico.ProdutoServico;
16
17 @RestController
18 public class ProdutoControle {
19
20     @Autowired
21     private ProdutoServico ps;
22
23     @DeleteMapping("/remover/{codigo}")
24     public ResponseEntity<RespostaModelo> remover(@PathVariable long codigo){
25         return ps.remover(codigo);
26     }
27
28     @PutMapping("/alterar")
29     public ResponseEntity<RespostaModelo> alterar(@RequestBody ProdutoModelo pm){
30         return ps.cadastrarAlterar(pm, acao: "alterar");
31     }
32
33     @PostMapping("/cadastrar")
34     public ResponseEntity<RespostaModelo> cadastrar(@RequestBody ProdutoModelo pm){
35         return ps.cadastrarAlterar(pm, acao: "cadastrar");
36     }
}
```

OUTLINE

TIMELINE

JAVA PROJECTS

- ProdutoControle M
 - {} br.com.api.produtos.modelo
 - {} br.com.api.produtos.repository
 - {} br.com.api.produtos.servico

PROBLEMS

OUTPUT

TERMINAL

No problems have been detected in the workspace.

Filter (e.g. text, **/*.ts, !**/node_modules/**)

Ln 27, Col 1 Spaces: 4 UTF-8 CRLF Java Go Live

Salve atualize a pagina e vamos testar remover esse produto

Vamos remover

A screenshot of a browser window with a dark theme. The title bar shows four tabs: "(527) Getting Started with Raylib", "(527) Spring Boot e React 11 - Ro", "cristianobrito (cristiano)", and "localhost:8080/listar". The active tab is "localhost:8080/listar". The address bar also displays "localhost:8080/listar". Below the address bar is a navigation bar with icons for back, forward, and search. The main content area contains the following JSON response:

```
[{"codigo":1,"nome":"Galaxy S22","marca":"Samsung"}]
```

File Edit Selection View Go Run Terminal Help New Request - SPRINGBOOT-REACT-2023 - Visual Studio Code

THUNDER CLIENT

New Request

Activity Collections Env

filter activity

DEL localhost:8080/remover/1 just now

PUT localhost:8080/alterar 20 mins ago

POST localhost:8080/cadastrar 54 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

DELETE localhost:8080/remover/1

Send

Status: 200 OK Size: 50 Bytes Time: 198 ms

Response Headers Cookies Results Docs

```
1 {  
2   "mensagem": "O produto foi removido com sucesso!"  
3 }
```

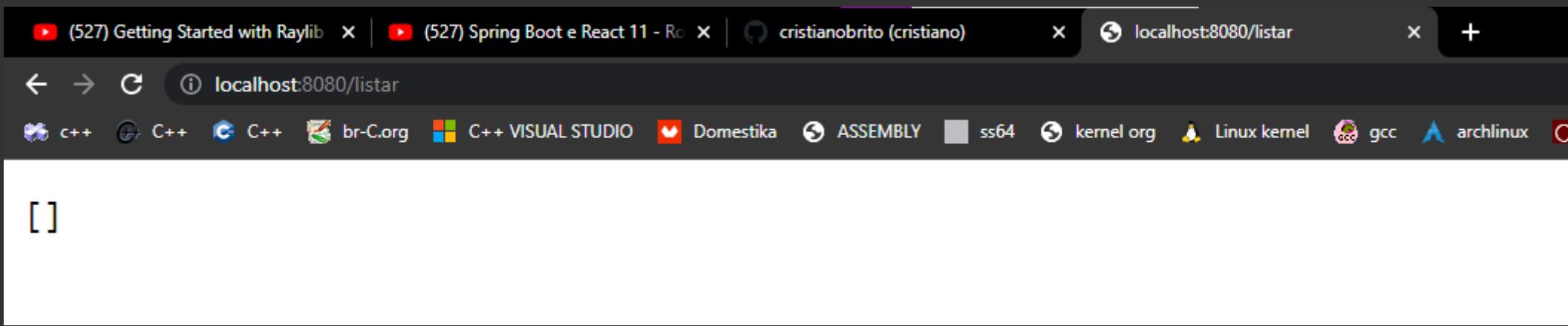
PROBLEMS OUTPUT TERMINAL

No problems have been detected in the workspace.

Filter (e.g. text, **/*.ts, !**/node_modules/**)

main* Go Live

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



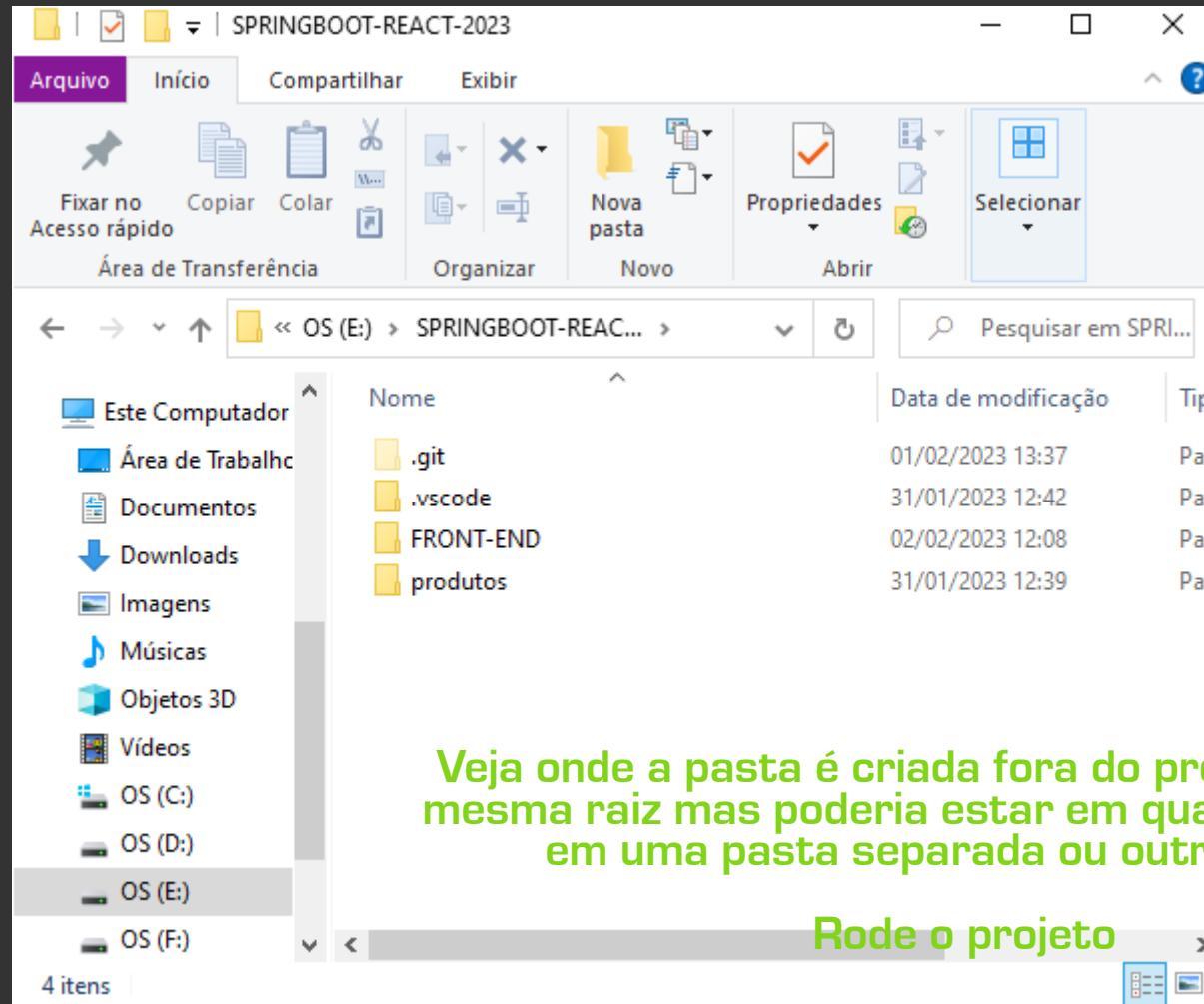
#16
CORS

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

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** Cors.html - SPRINGBOOT-REACT-2023 - Visual Studio Code.
- Explorer:** Shows a project structure under SPRINGBOOT-REACT-2023:
 - .vscode
 - FRONT-END
 - Cors.html
 - produtos
- Editor:** The Cors.html file is open, displaying the following code:

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>Teste CORS</title>
8
9      <script>
10         fetch('http://localhost:8080/listar')    // Realiza a requisição
11             .then(produtos => produtos.json())    // Converte o valor recebido em JSON
12             .then(retorno => console.log(retorno)) // Exibindo os produtos
13
14     </script>
15
16 </head>
17 <body>
18
19 </body>
20 </html>
```
- Bottom Center Text:** Crie uma pasta FRONT-END
E dentro dela o arquivo Cors.html
- Problems View:** Shows one warning in ProdutoRepository.java:

```
Unnecessary '@Repository' vscode-spring-boot(JAVA_REPOSITORY) [Ln 9, Col 1]
```
- Bottom Status Bar:** Ln 21, Col 8, Spaces: 4, UTF-8, CRLF, HTML, Go Live, 32°C Pred. num., 12:12.



File Edit Selection View Go Run Terminal Help ProdutosApplication.java - SPRINGBOOT-REACT-2023 - Visual Studio Code

EXPLORER

SpringBoot-React-2023

- .vscode
- FRONT-END
 - Cors.html
- produtos
 - .mvn
 - .vscode
- src
 - main
 - java
 - br
 - com
 - api
 - produtos
 - controle
 - modelo
 - repository
 - ProdutoRepositorio.java

- resources
- test
- target
- .gitignore
- HELP.md
- mvnw

OUTLINE

TIMELINE

JAVA PROJECTS

- br.com.api.produtos
 - ProdutosApplication
 - br.com.api.produtos.controlle
 - ProdutoControle
 - br.com.api.produtos.modelo
 - br.com.api.produtos.repository
 - ProdutoRepositorio

PROBLEMS 1

OUTPUT TERMINAL

Filter (e.g. text, **/*.ts, !**/node_modules/**)

PRODUTOSAPPLICATION.JAVA

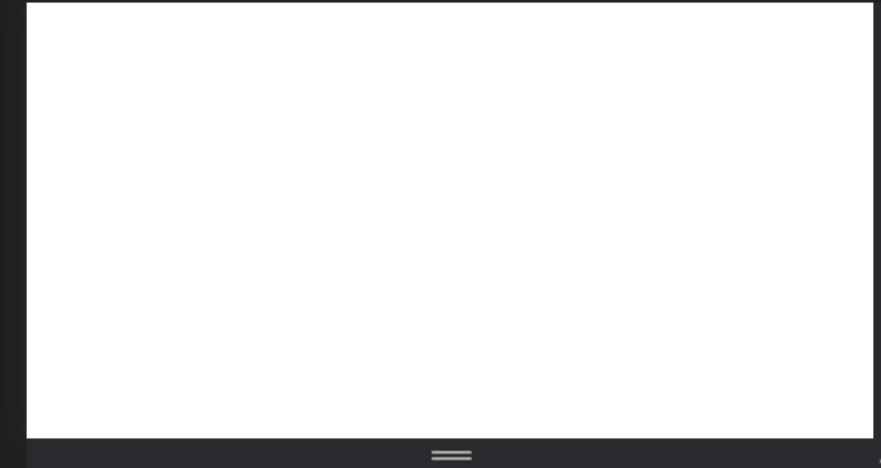
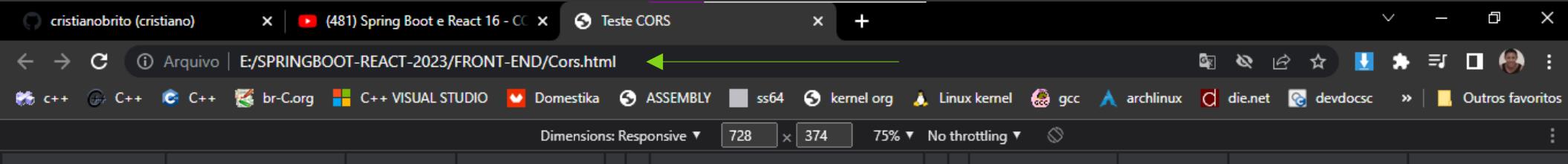
1 package br.com.api.produtos;
2
3 import org.springframework.boot.SpringApplication;
4 import org.springframework.boot.autoconfigure.SpringBootApplication;
5
6 @SpringBootApplication
7 public class ProdutosApplication {
8 public static void main(String[] args) {
9 SpringApplication.run(ProdutosApplication.class,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

PRODUTOREPOSITORY.JAVA

Unnecessary '@Repository' vscode-spring-boot(JAVA_REPOSITORY) [Ln 9, Col 1]

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

32°C Pred. nu... 12:16



```
✖ Failed to load resource: net::ERR_CONNECTION_REFUSED
✖ Uncaught (in promise) TypeError: Failed to fetch
  at Cors.html:11:9
✖ Failed to load resource: net::ERR_FILE_NOT_FOUND
>
```

localhost:8080/listar:1 ⓘ

Cors.html:11 ⓘ

gen204:1 ⓘ

Vamos resolver o problema de bloqueio do cors



File Edit Selection View Go Run Terminal Help ProdutoControle.java - SPRINGBOOT-REACT-2023 - Visual Studio Code

EXPLORER

SpringBoot-React-2023

- .vscode
- FRONT-END
 - Cors.html
- produtos
 - .mvn
 - .vscode
- src
 - main
 - java
 - br
 - com
 - api
 - produtos
 - controle
 - ProdutoControle.java
 - modelos
 - repository
 - ProdutoRepository.java
 - servico
 - ProdutosApplication.java
 - resources
 - test
 - target
 - .gitignore
 - HELP.md

OUTLINE

TIMELINE

JAVA PROJECTS

 - br.com.api.produtos
 - ProdutosApplication
 - br.com.api.produtos.controle
 - ProdutoControle
 - br.com.api.produtos.modelo
 - br.com.api.produtos.repository
 - ProdutoRepository

TERMINAL

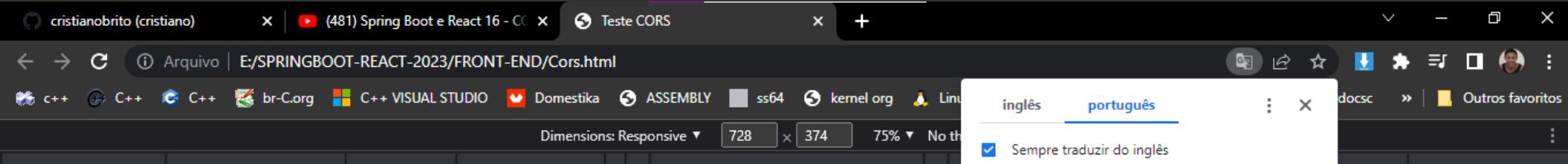
DEBUG CONSOLE

Language Support for Java(TM) by Red Hat

32°C Pred. nu... 12:22

```
2  
3     import org.springframework.beans.factory.annotation.Autowired;  
4     import org.springframework.http.ResponseEntity;  
5     import org.springframework.web.bind.annotation.CrossOrigin; ←  
6     import org.springframework.web.bind.annotation.DeleteMapping;  
7     import org.springframework.web.bind.annotation.GetMapping;  
8     import org.springframework.web.bind.annotation.PathVariable;  
9     import org.springframework.web.bind.annotation.PostMapping;  
10    import org.springframework.web.bind.annotation.PutMapping;  
11    import org.springframework.web.bind.annotation.RequestBody;  
12    import org.springframework.web.bind.annotation.RestController;  
13  
14    import br.com.api.produtos.modelo.ProdutoModelo;  
15    import br.com.api.produtos.modelo.RespostaModelo;  
16    import br.com.api.produtos.servico.ProdutoServico;  
17  
18    @RestController  
19    @CrossOrigin(origins = "*") ← // (origins = "http://localhost:3000") pode ser a url completa o * libera todas as permissões  
20    public class ProdutoControle {  
21        @Autowired  
22        private ProdutoServico ps;  
23  
24        // {PEGA O CODIGO}  
25        @DeleteMapping("/remover/{codigo}")  
26        public ResponseEntity<RespostaModelo> remover(@PathVariable long codigo){  
27            return ps.remover(codigo);  
28        }  
29    }
```

Adicionamos a annotation e seu import



Elements Console Sources Network Performance Memory Application Security Lighthouse Recorder Performance insights

Default levels 1 Issue: 1 hidden

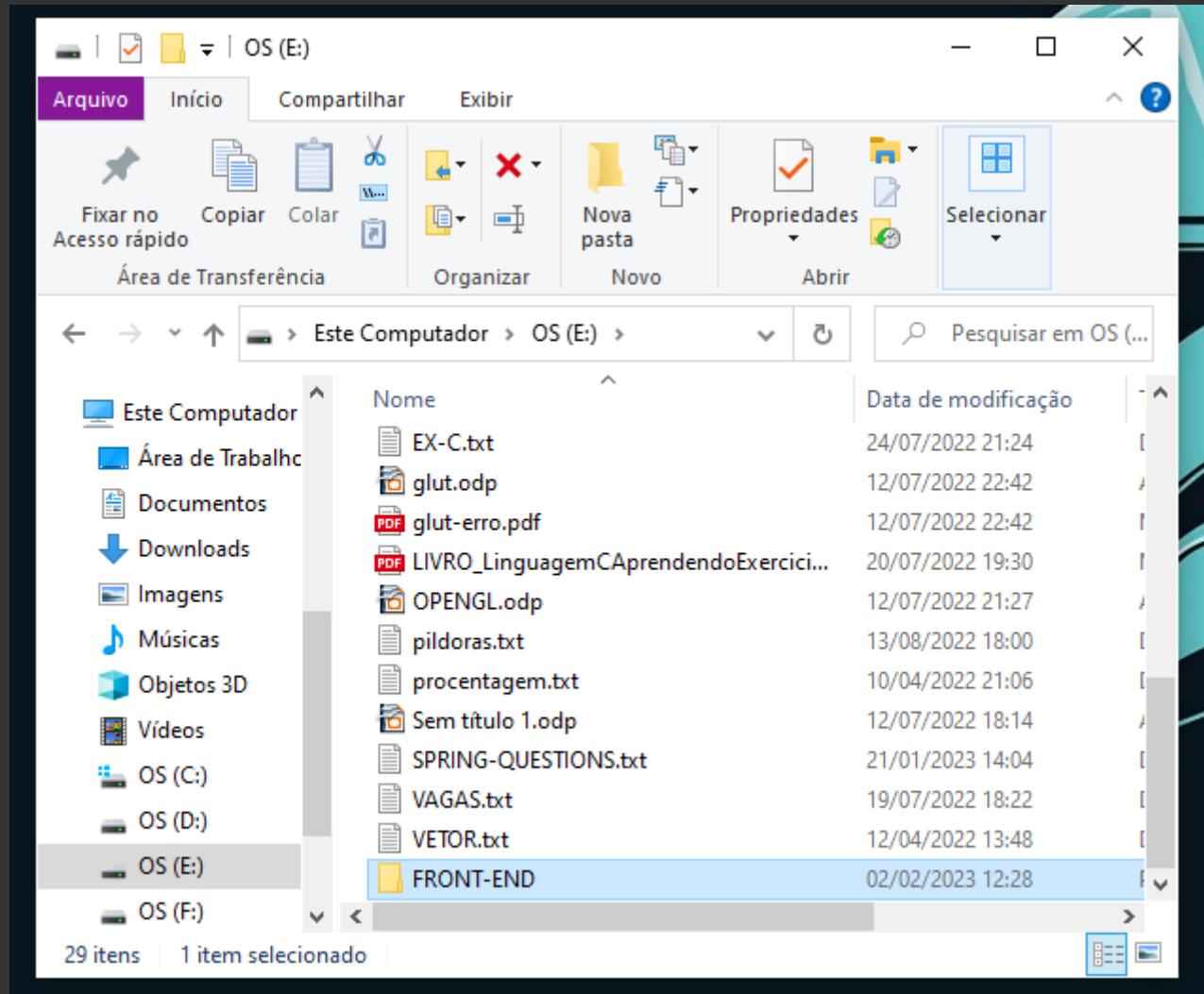
top Filter

ERR_FILE_NOT_FOUND 20230124 translate.google.com:ogId=vTE 20230124:1

Atualizando a pagina temos o objeto



#17
CRIANDO PROJETO REACT



**CREIE UMA
NOVA
PASTA E
ABRA COM
O CODE**

File Edit Selection View Go Run

Terminal Help

Get Started - FRONT-END - Visual Studio Code

New Terminal **Ctrl+Shift+'**

Split Terminal **Ctrl+Shift+5**

Run Task...

Run Build Task... **Ctrl+Shift+B**

Run Active File

Run Selected Text

Show Running Tasks...

Restart Running Task...

Terminate Task...

Configure Tasks...

Configure Default Build Task...

Open Folder...

Clone Git Repository...

Recent

SPRINGBOOT-REACT-2023 E:\

produtos E:\SPRINGBOOT-REACT-2023

NODE-BASICS E:\

json-html E:\

ESTUDO F:\

More...

udio Code

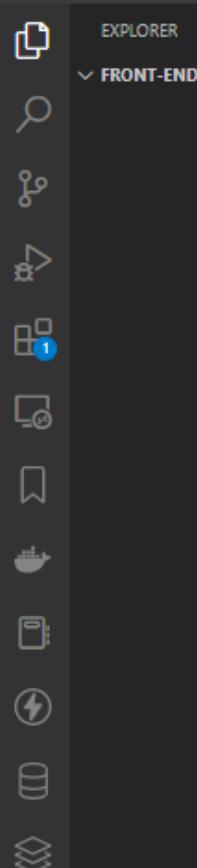
ved

Walkthroughs

Getting Started with Spring Boot in VS Co

Get Started with Java Development **Update**

More...

... **Get Started** X**Start**

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

Recent

- SPRINGBOOT-REACT-2023 E:\
- produtos E:\SPRINGBOOT-REACT-2023
- NODE-BASICS E:\
- json-html E:\
- ESTUDO F:\
- More...

 Show welcome page on startup

PROBLEMS OUTPUT TERMINAL

TERMINAL

PS E:\FRONT-END> npx create-react-app front

 powershell + DEBUG CONSOLE

**De o comando
Npx create-react-app front
Onde front é o nome do nosso projeto
De enter e espere pois demora um pouco**

File Edit Selection View Go Run Terminal Help Get Started - FRONT-END - Visual Studio Code

EXPLORER

FRONT-END

front

- > node_modules
- > public
- > src
- ↳ .gitignore
- ↳ package-lock.json
- ↳ package.json
- ❶ README.md

Start

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

Recent

SPRINGBOOT-REACT-2023 E:\
produtos E:\SPRINGBOOT-REACT-2023

PROBLEMS OUTPUT TERMINAL

TERMINAL

```
Created git commit.  
  
Success! Created front at E:\FRONT-END\front  
Inside that directory, you can run several commands:  
  
npm start  
Starts the development server.  
  
npm run build  
Bundles the app into static files for production.  
  
npm test  
Starts the test runner.  
  
npm run eject  
Removes this tool and copies build dependencies, configuration files  
and scripts into the app directory. If you do this, you can't go back!  
  
We suggest that you begin by typing:
```

cd front
npm start

Happy hacking!

PS E:\FRONT-END>

Walkthroughs

Getting Started with Spring Boot in VS Code New

Get Started with Java Development Updated

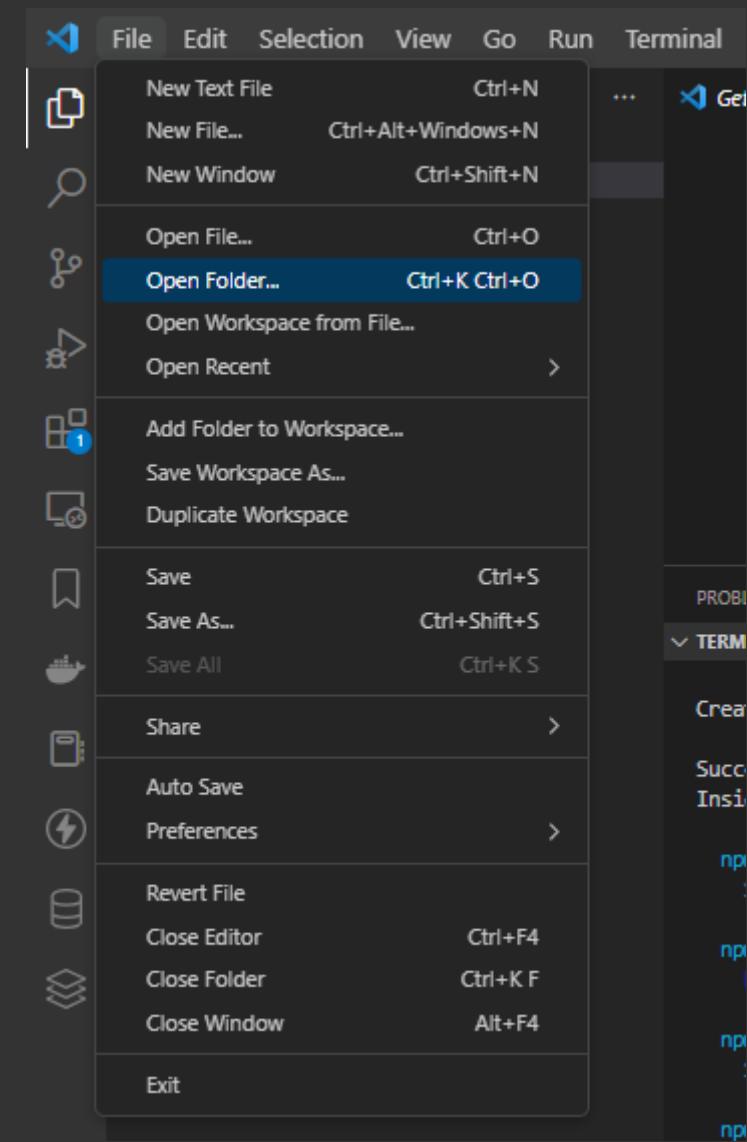
More...

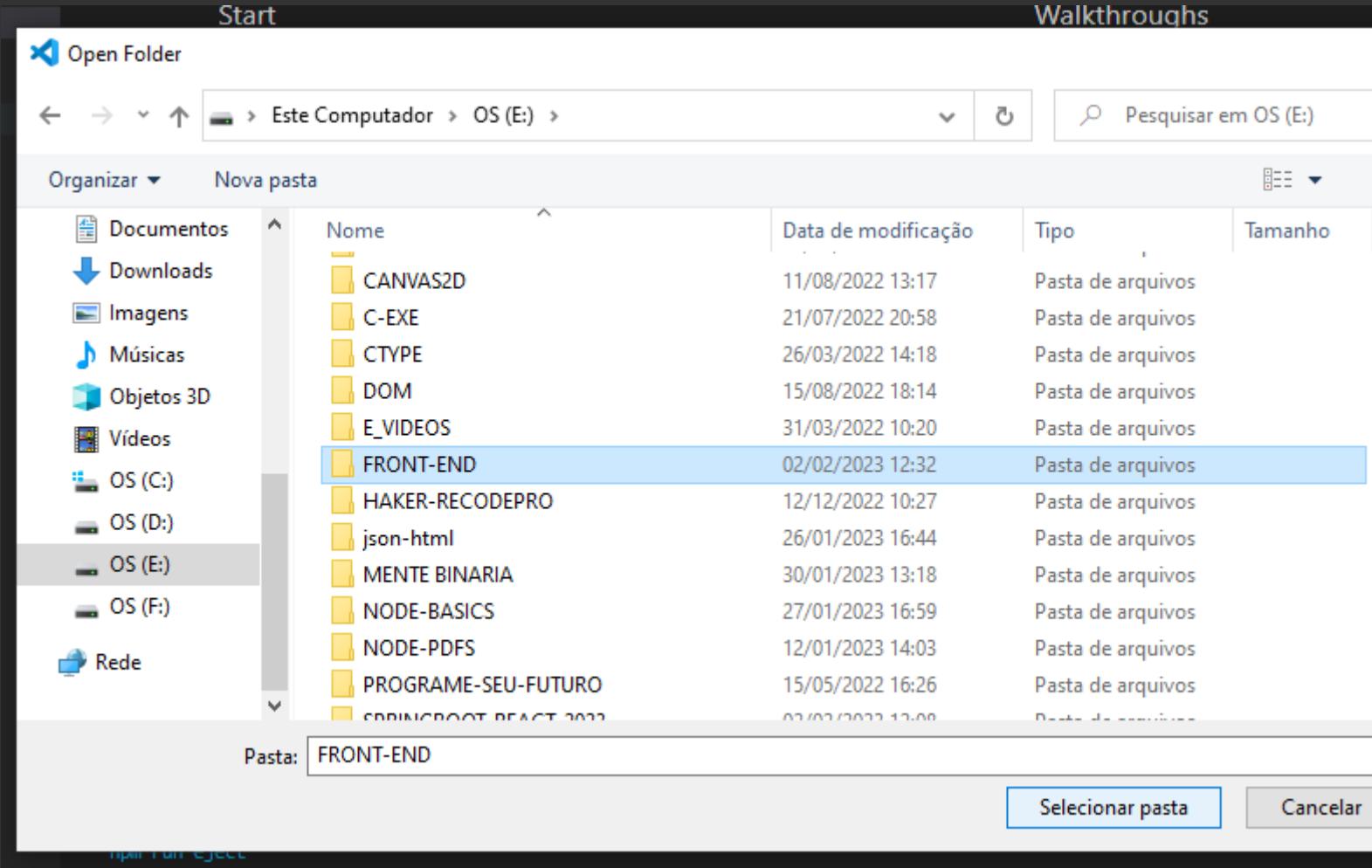
DEBUG CONSOLE

Por fim temos o projeto criado

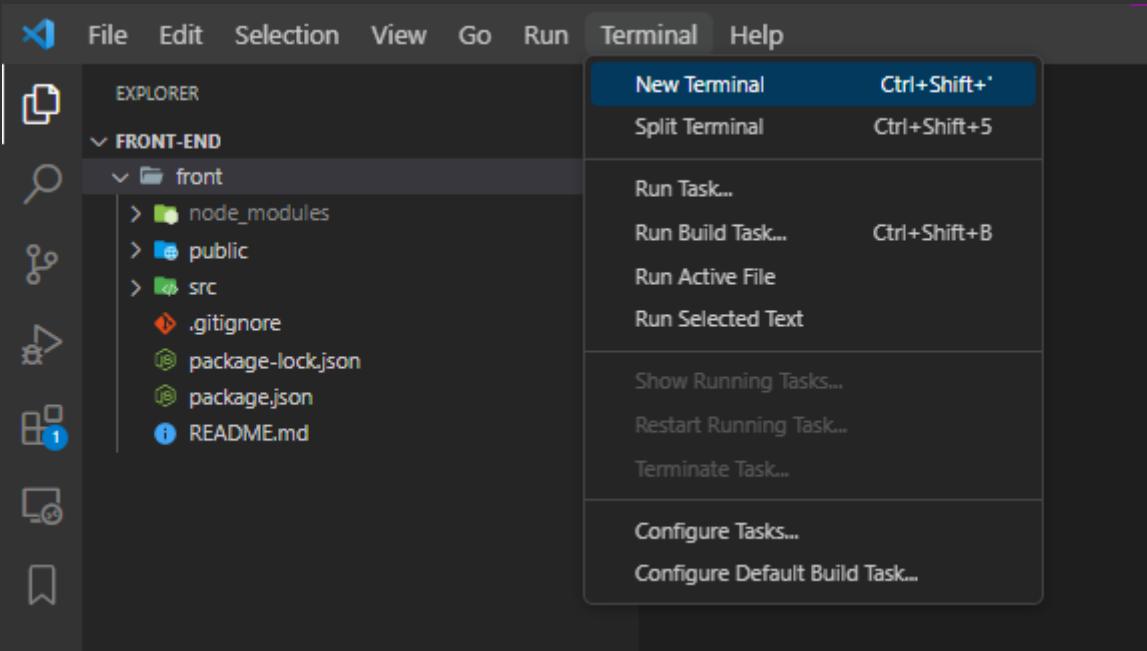
Podemos rodar o projeto acessando a pasta front e dando o comando npm start ou assim que segue...

31°C Pred. nu... 12:36





E selecionamos a pasta do projeto



The screenshot shows the VS Code interface with the terminal tab selected. The terminal window displays the command 'PS E:\FRONT-END> npm start'. To the right of the terminal, there are two small preview windows labeled 'powershell'.

E damos o comando **npm start**
Obs; nesse diretorio deu erro
Dai fiz:
Cd front
E dentro da pasta front dei o
 npm start
Ai deu bom!!

PROBLEMS OUTPUT TERMINAL

▼ TERMINAL

```
npm ERR! code ENOENT
npm ERR! syscall open
npm ERR! path E:\FRONT-END\package.json
npm ERR! errno -4058
npm ERR! enoent ENOENT: no such file or directory, open 'E:\FRONT-END\package.json'
npm ERR! enoent This is related to npm not being able to find a file.
npm ERR! enoent
```

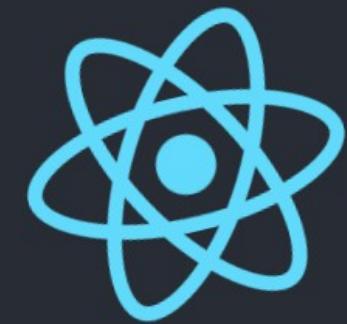
```
npm ERR! A complete log of this run can be found in:
Compiled successfully!
```

You can now view `front` in the browser.

```
Local:          http://localhost:3000
On Your Network: http://192.168.239.1:3000
```

Note that the development build is not optimized.
To create a production build, use `npm run build`.

```
webpack compiled successfully
```

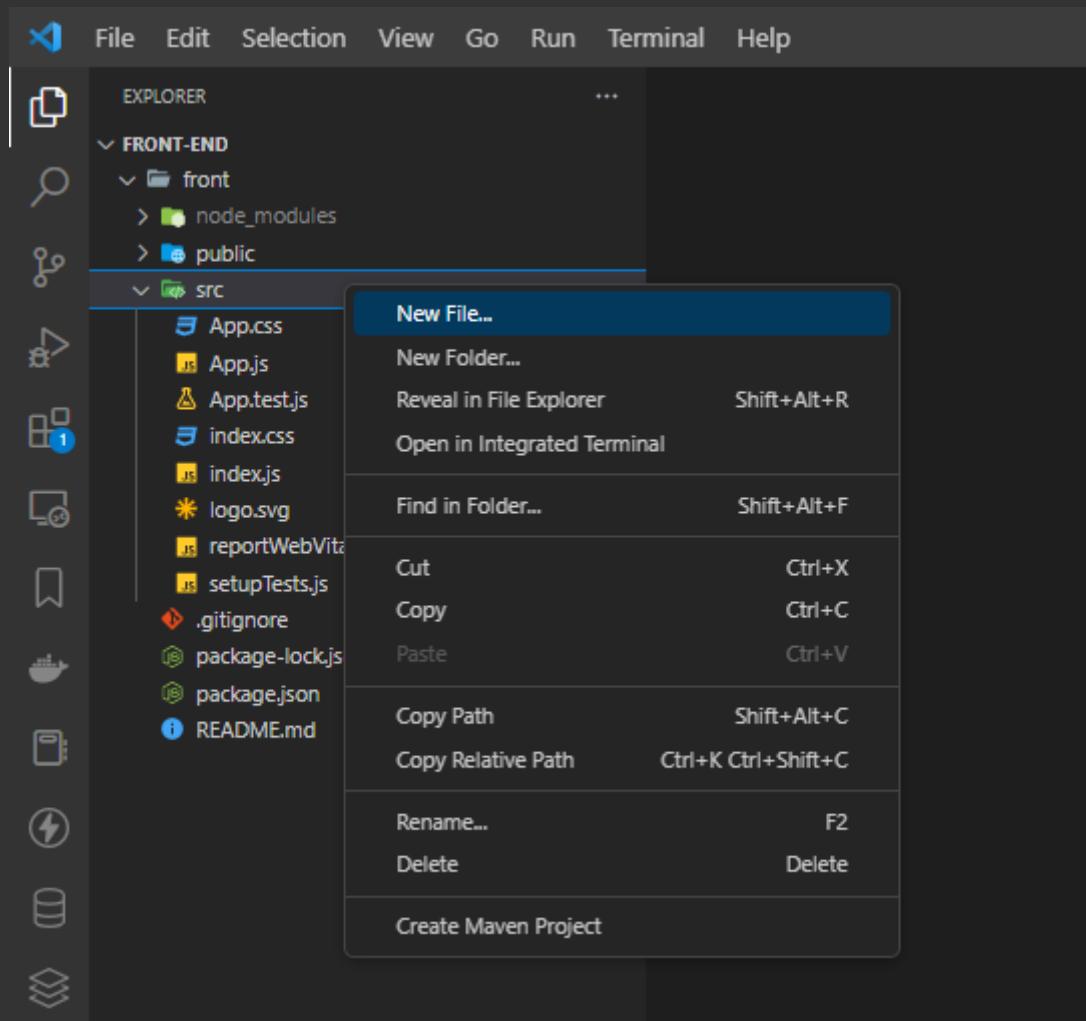


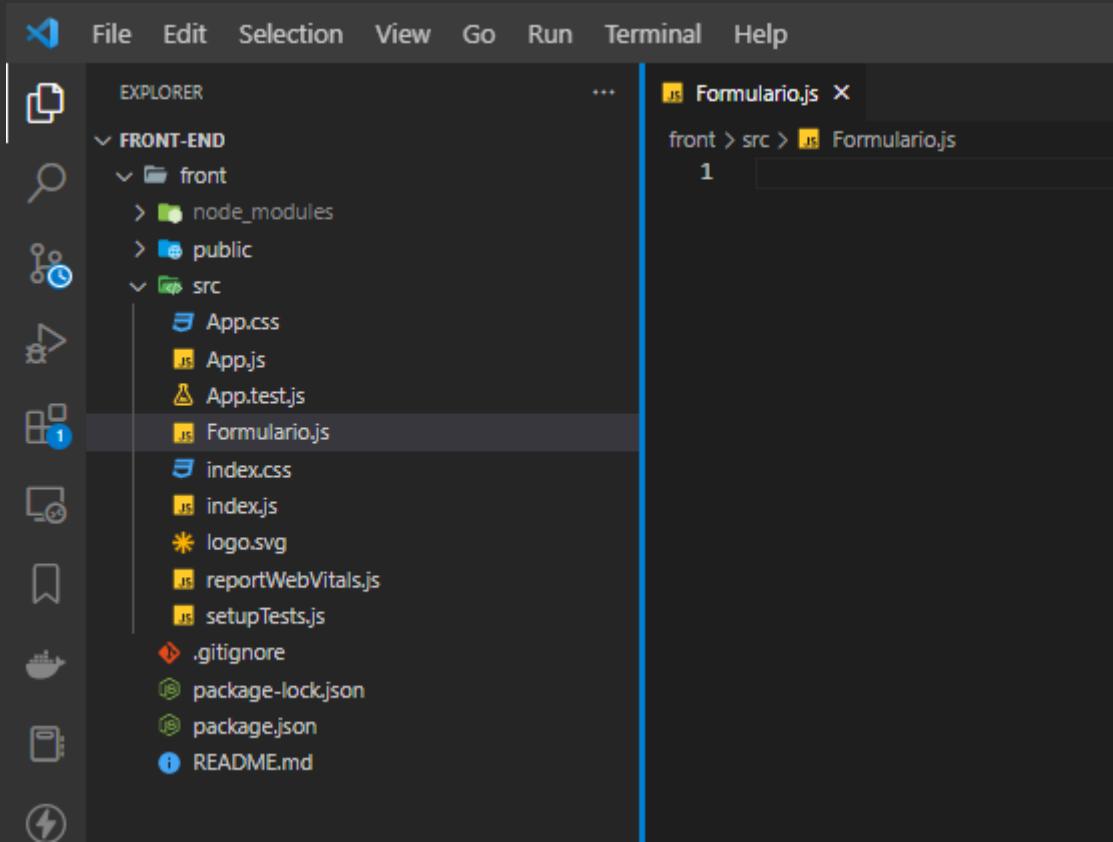
Edite `src/App.js` e salve para recarregar.

Aprenda Reagir

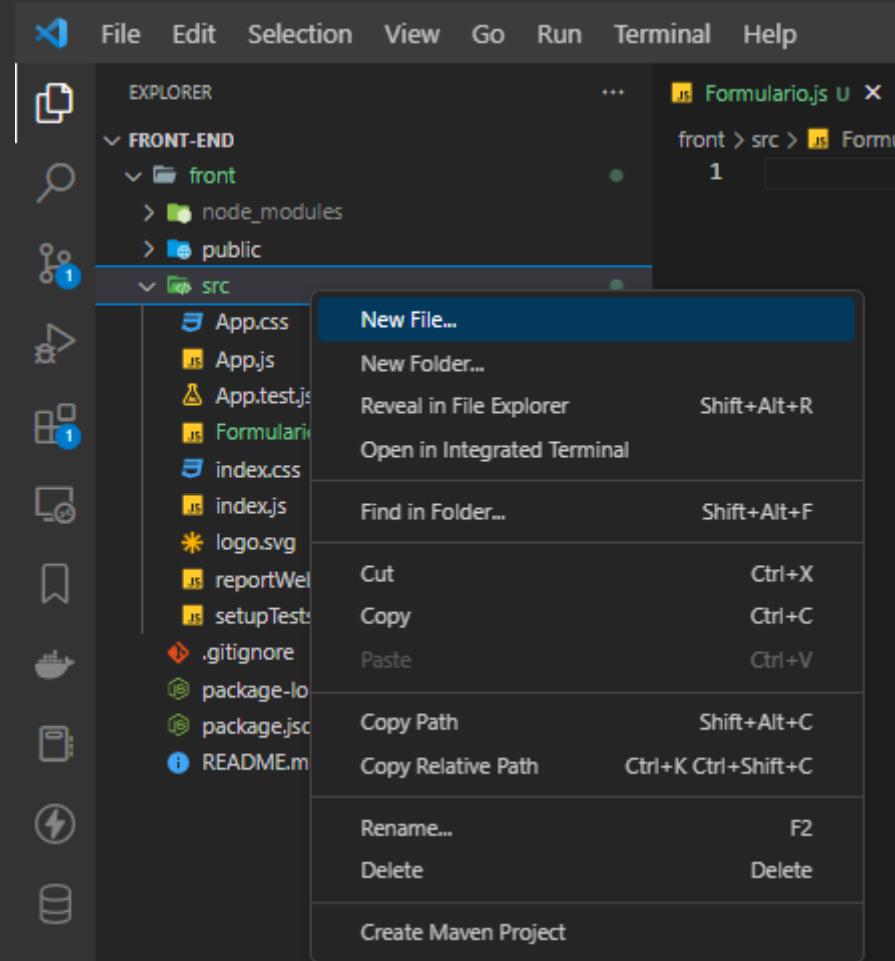
Projeto rodando

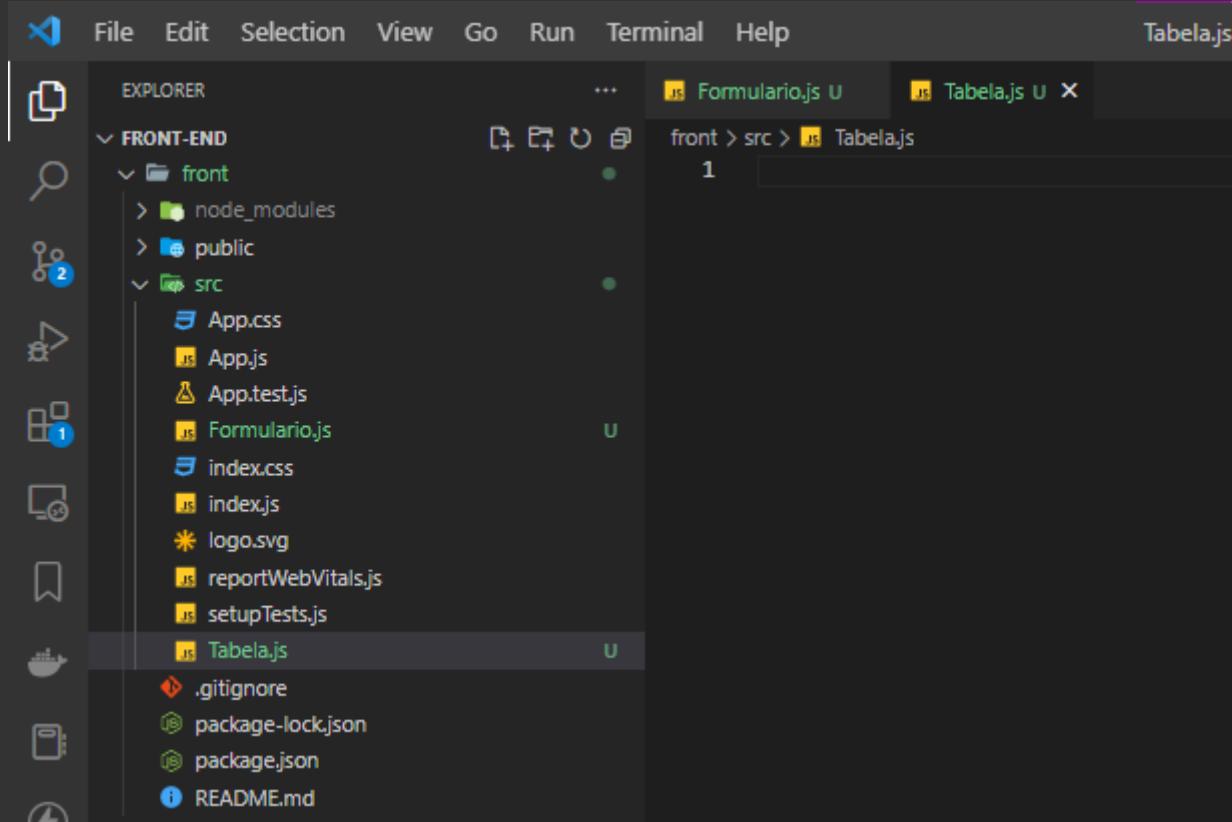
#18
CRIANDO COMPONENTES



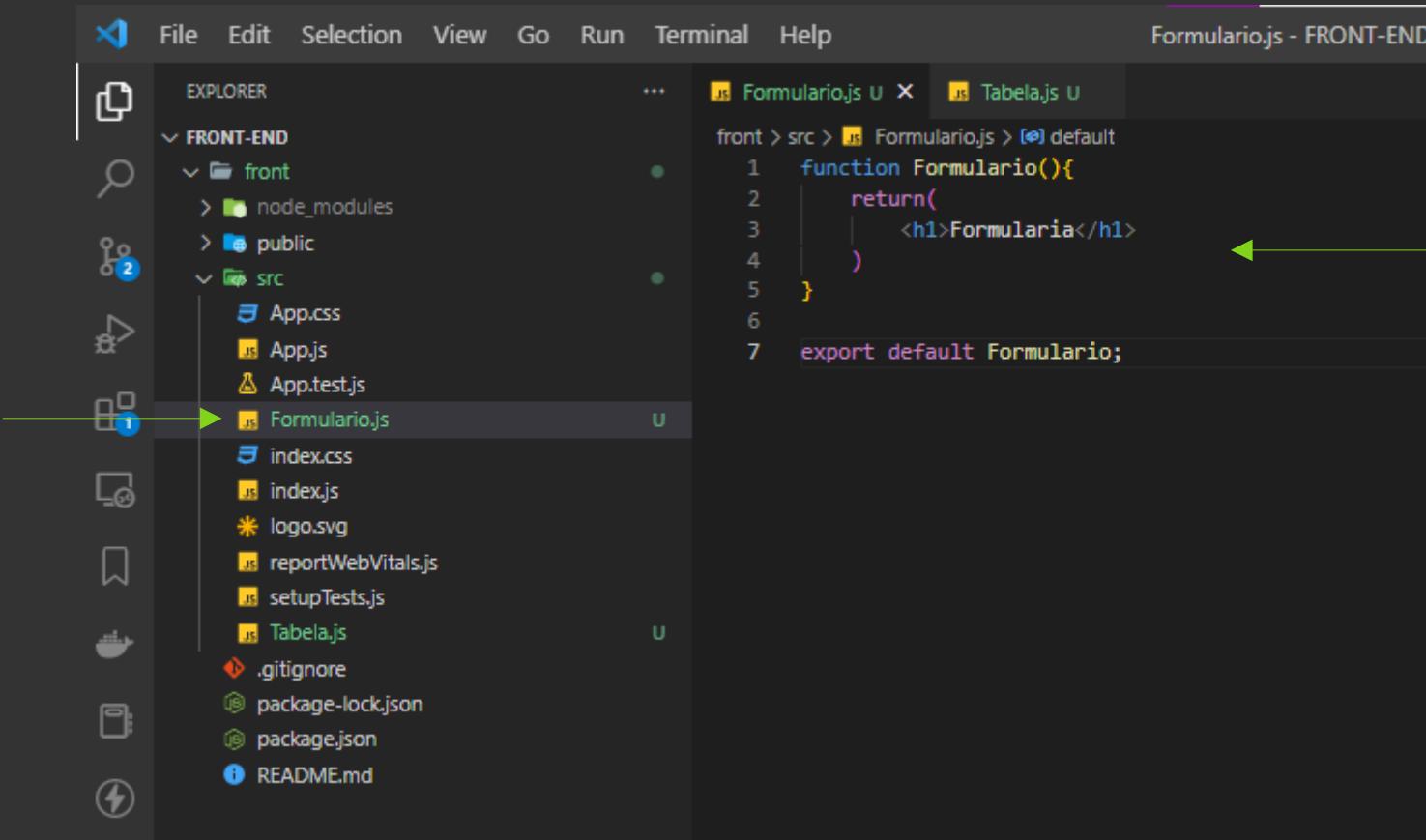


Criamos o arquivo **Formulario.js** dentro da pasta **src**





Dentro de src criamos o arquivo Tabela.js



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

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** Formulario.js - FRONT-END
- Explorer Pane:** Shows the project structure under 'FRONT-END'. The 'src' folder contains 'App.css', 'App.js', 'App.test.js', 'Formulario.js' (which is selected), 'index.css', 'index.js', 'logo.svg', 'reportWebVitals.js', 'setupTests.js', 'Tabela.js', '.gitignore', 'package-lock.json', 'package.json', and 'README.md'. A green arrow points from the Explorer pane to the Editor pane.
- Editor Pane:** Displays the content of 'Formulario.js'. The code is as follows:

```
front > src > Formulario.js > default
1  function Formulario(){
2    return(
3      <h1>Formularia</h1>
4    )
5  }
6
7 export default Formulario;
```

A green arrow points from the Editor pane back to the Explorer pane.

A screenshot of the Visual Studio Code (VS Code) interface. The window title is "Tabela.js - F". The menu bar includes File, Edit, Selection, View, Go, Run, Terminal, and Help. The Explorer sidebar on the left shows a project structure under "FRONT-END": "front" (containing node_modules, public, and src), "src" (containing App.css, App.js, App.test.js, Formulario.js, index.css, index.js, logo.svg, reportWebVitals.js, setupTests.js), and a file "Tabela.js" which is currently selected, indicated by a green arrow pointing to it. The main editor area displays the code for "Tabela.js":

```
front > src > Tabela.js > [o] default
1 function Tabela(){
2     return(
3         <h1>Tabela</h1>
4     )
5 }
6
7 export default Tabela;
```

File Edit Selection View Go Run Terminal Help

App.js - FRONT-END - Visual Studio Code

EXPLORER

FRONT-END

front

node_modules

public

src

App.css

App.js

App.test.js

Formulario.js

index.css

index.js

logo.svg

reportWebVitals.js

setupTests.js

Tabela.js

.gitignore

package-lock.json

package.json

README.md

Formulario.js U

Tabela.js U

App.js X

```
front > src > App.js > ...
1 import logo from './logo.svg';
2 import './App.css';
3
4 function App() {
5   return (
6     <div className="App">
7       <header className="App-header">
8         <img src={logo} className="App-logo" alt="logo" />
9         <p>
10           Edit <code>src/App.js</code> and save to reload.
11         </p>
12         <a
13           className="App-link"
14           href="https://reactjs.org"
15           target="_blank"
16           rel="noopener noreferrer"
17         >
18           Learn React
19         </a>
20       </header>
21     </div>
22   );
23 }
24
25 export default App;
26
```

Vamos apagar tudo e só deixar
a div para podermos ver os
dados que acabamos de linkar

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

- File Menu:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** App.js - FRONT-END - Visual
- Explorer Bar:** Shows the project structure under "FRONT-END":
 - front
 - node_modules
 - public
 - src
 - App.css
 - App.js
 - App.test.js
 - Formulario.js
 - index.css
 - index.js
 - logo.svg
 - reportWebVitals.js
 - setupTests.js
 - Tabela.js
 - .gitignore
 - package-lock.json
 - package.json
 - README.md
- Code Editor:** The "App.js" file is open, showing the following code:

```
front > src > App.js > App
1 import logo from './logo.svg';
2 import './App.css';
3
4 function App() {
5   return [
6     <div className="App">
7       |
8       </div>
9     ];
10 }
11
12 export default App;
13
```

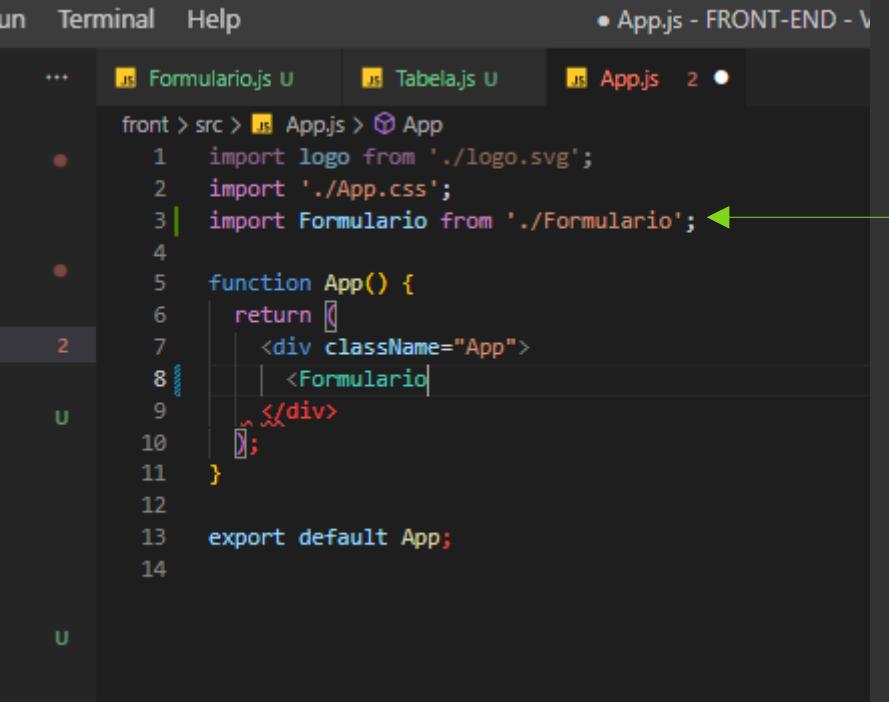
A green arrow points from the status bar icon to the line separator between lines 7 and 8.

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

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** • App.js - FRONT-END - Visual Studio Code
- Explorer View:** Shows a file tree under "FRONT-END".
 - front
 - node_modules
 - public
 - src
 - App.css
 - App.js (highlighted)
 - App.test.js
 - Formulario.js (highlighted)
 - index.css
 - index.js
 - logo.svg
 - reportWebVitals.js
 - setupTests.js
 - Tabela.js
 - .gitignore
 - package-lock.json
 - package.json
 - README.md
- Code Editor:** The "App.js" file is open.

```
front > src > App.js > App
1 import logo from './logo.svg';
2 import './App.css';
3
4 function App() {
5   return (
6     <div className="App">
7       <For>
8         <div>[&gt; FocusEvent
9           [&gt; FontFace
10          [&gt; FontFaceSet
11            [&gt; FontFaceSetLoadEvent
12              [&gt; FormData
13                [&gt; FormDataEvent
14                  [&gt; Formulario
15                    [&gt; focus
16                      [&gt; Float32Array
17                        [&gt; Float64Array
18                          [&gt; Function
19                            [&gt; parseFloat
```
- IntelliSense Pop-up:** A tooltip is displayed at the bottom right of the editor, showing suggestions for the word "Formulario". It includes:
 - Add import from "./Formulario"
 - (alias) function Formulario(): any
 - export default FormularioA specific suggestion, ".Formulario", is highlighted in blue.

Se digitarmos as primeiras letras e aparecer ele mesmo importa se não temos que importar manualmente



```
File: App.js - FRONT-END - VSCODE
  1 import logo from './logo.svg';
  2 import './App.css';
  3 import Formulario from './Formulario'; ←
  4
  5 function App() {
  6   return [
  7     <div className="App">
  8       <Formulario>
  9       ^</div>
 10     ];
 11   }
 12
 13 export default App;
 14
```

O importe

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

- File Explorer (Left):** Shows the project structure under "FRONT-END".
 - "front" folder contains "node_modules" and "public".
 - "src" folder contains "App.css", "App.js" (highlighted), "App.test.js", "Formulario.js", "index.css", "index.js", "logo.svg", "reportWebVitals.js", "setupTests.js", and "Tabela.js".
 - Other files include ".gitignore", "package-lock.json", "package.json", and "README.md".
- Terminal (Top Right):** Shows the command "• App.js - FRONT-END".
- Code Editor (Right):** Displays the content of "App.js".

```
front > src > App.js > App
1 import logo from './logo.svg';
2 import './App.css';
3 import Formulario from './Formulario';
4
5 function App() {
6   return [
7     <div className="App">
8       <Formulario /> ←
9     </div>
10    ];
11 }
12
13
14 export default App;
15
```

A green arrow points to the closing brace of the "Formulario />" line.

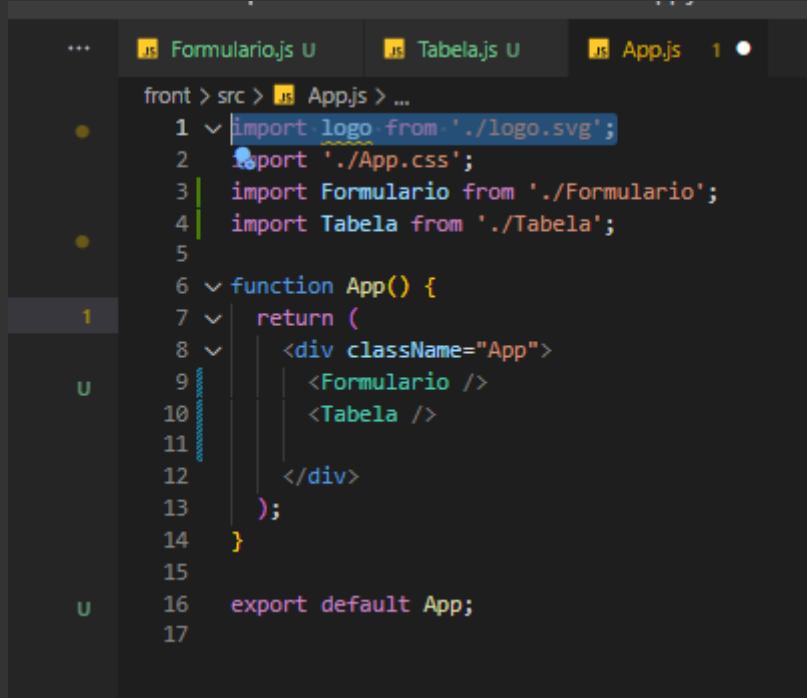
Fazemos a mesma coisa pra tabela

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

- File Explorer (Left):** Shows the project structure under "FRONT-END".
 - front**: Contains node_modules and public.
 - src**: Contains App.css, App.js (highlighted), App.test.js, Formulario.js, index.css, index.js, logo.svg, reportWebVitals.js, setupTests.js, Tabela.js, .gitignore, package-lock.json, package.json, and README.md.
- Terminal (Top Right):** Shows the command "• App.js - FRONT-END".
- Code Editor (Right):** Displays the content of App.js.

```
front > src > App.js > App
1 import logo from './logo.svg';
2 import './App.css';
3 import Formulario from './Formulario';
4 import Tabela from './Tabela'; ←
5
6 function App() {
7   return [
8     <div className="App">
9       <Formulario />
10      <Tabela /> ←
11     </div>
12   ];
13 }
14
15
16 export default App;
17
```

A yellow arrow points to the closing brace of the `<Tabela />` tag at line 10.



```
...  JS Formulario.js U  JS Tabela.js U  JS App.js  1 ●
front > src > JS App.js > ...
1 ✓ import logo from './logo.svg';
2 export './App.css';
3 | import Formulario from './Formulario';
4 | import Tabela from './Tabela';
5
6 ✓ function App() {
7   return (
8     <div className="App">
9       <Formulario />
10      <Tabela />
11    </div>
12  );
13}
14
15
16 export default App;
17
```

Apague esse importe do logo

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

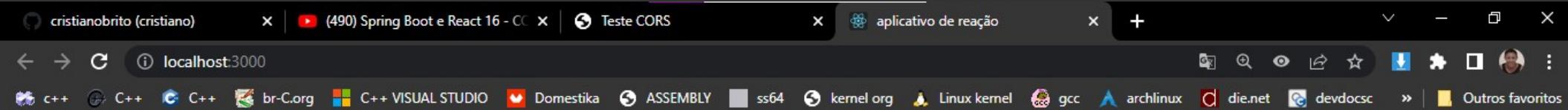
- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** App.js - FRONT-END - Visual Studio
- Explorer View:** Shows a file tree for a project named "front". The "src" folder contains files: App.css, App.js (selected), App.test.js, Formulario.js, index.css, index.js, logo.svg, reportWebVitals.js, setupTests.js, Tabela.js, .gitignore, package-lock.json, package.json, and README.md. There are 3 untracked files indicated by a blue circle with a '3'.
- Code Editor:** Displays the content of App.js. The code defines a functional component "App" that returns a div with two children: "Formulario" and "Tabela". It also imports "App.css" and the other components from their respective files.

```
import './App.css';
import Formulario from './Formulario';
import Tabela from './Tabela';

function App() {
  return (
    <div className="App">
      <Formulario />
      <Tabela />
    </div>
  );
}

export default App;
```

Salve e va no navegador



Fórmula

tabela



#19
ESTRUTURA DO FORMULARIO

File Edit Selection View Go Run Terminal Help

Formulario.js - FRONT

EXPLORER

FRONT-END

front

node_modules

public

src

App.css

App.js

App.test.js

Formulario.js

index.css

index.js

logo.svg

reportWebVitals.js

setupTests.js

Tabela.js

.gitignore

package-lock.json

package.json

README.md

```
function Formulario(){
    return(
        <h1>Formularia</h1>
    )
}

export default Formulario;
```

Remova o h1 pois vamos colocar os dados do formulario

File Edit Selection View Go Run Terminal Help

Formulario.js - FRONT-END - Visual Studio Code

EXPLORER

FRONT-END

- front
- node_modules
- public
- src
 - App.css
 - App.js
 - App.test.js
 - Formulario.js
 - index.css
 - index.js
 - logo.svg
 - reportWebVitals.js
 - setupTests.js
 - Tabela.js
- .gitignore
- package-lock.json
- package.json
- README.md

front > src > Formulario.js > Formulario

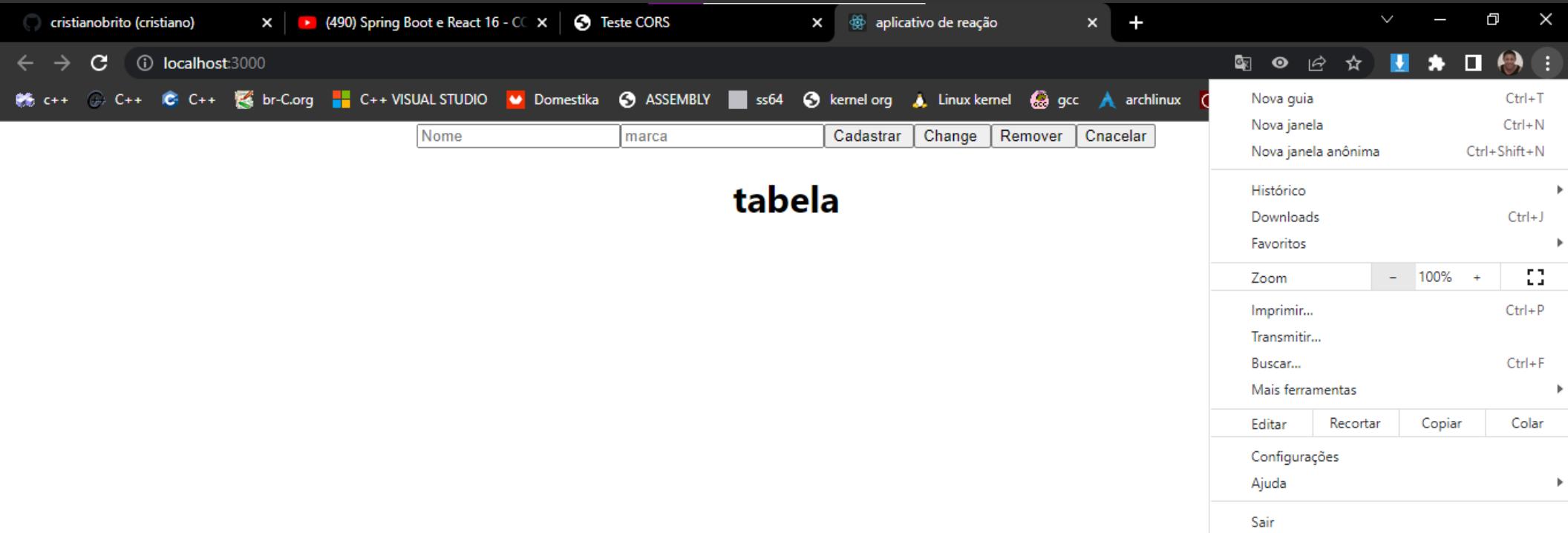
```
1 function Formulario(){
2     return(
3         <form>
4             <input type='text' placeholder='Nome' />
5             <input type='text' placeholder='Marca' />
6
7             <input type='button' value='Cadastrar' />
8             <input type='button' value='Alterar' />
9             <input type='button' value='Remover' />
10            <input type='button' value='Cnacelar' />
11        </form>
12    }
13
14
15 export default Formulario;
```

Digite salve e va no navegador

A screenshot of a browser window with a dark theme. The address bar shows the URL `localhost:3000`. The page content includes a search input field with placeholder text "Nome" and "marca", followed by several buttons: "Cadastrar", "Change", "Remover", and "Cnacelar". The browser's toolbar and various tabs are visible at the top.

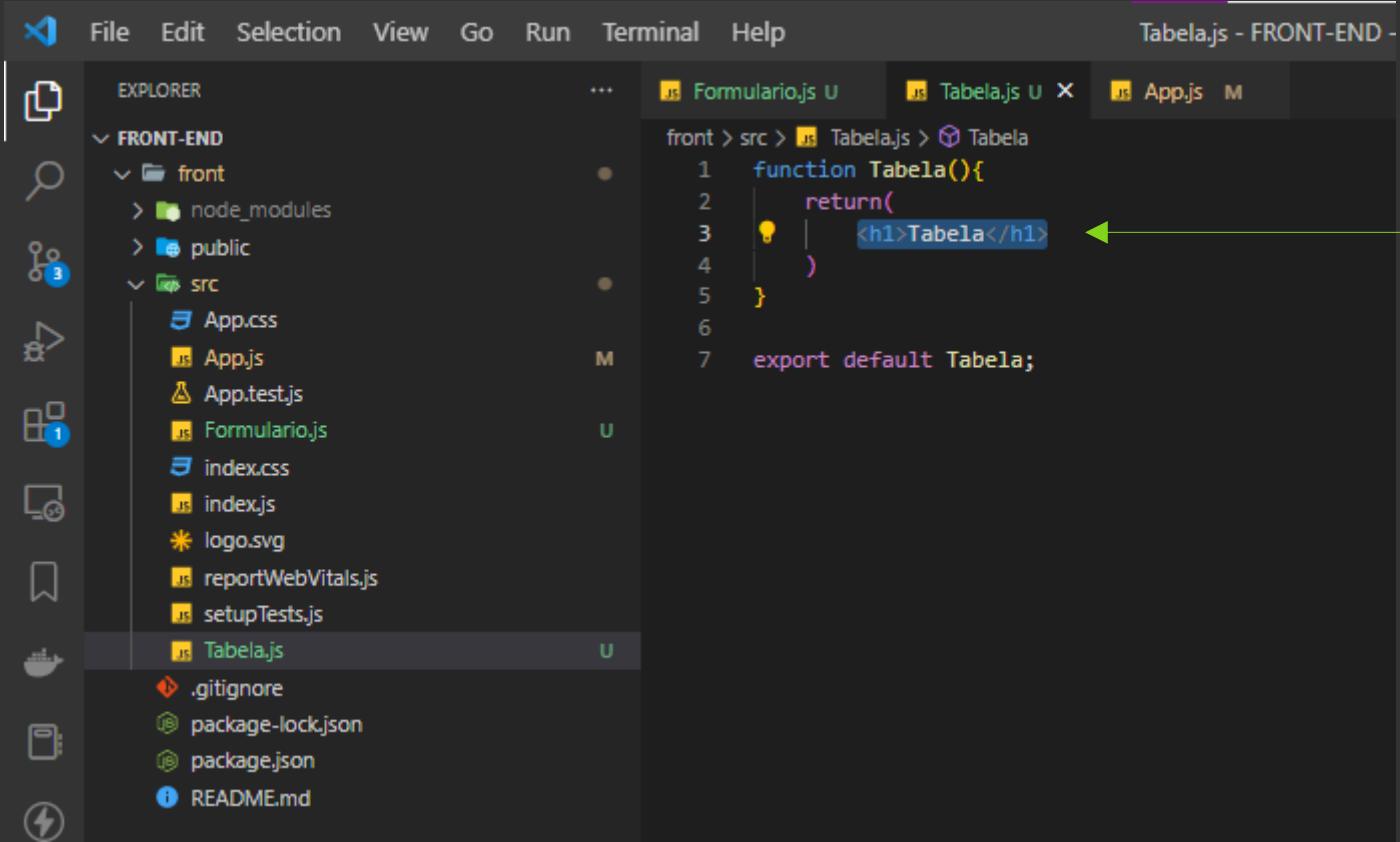
Nome marca Cadastrar Change Remover Cnacelar

tabela



Diminui o zoom pra ficar melhor

#20
ESTRUTURA DA TABELA



File Edit Selection View Go Run Terminal Help

Tabela.js - FRONT-END -

EXPLORER

FRONT-END

front

- node_modules
- public
- src

- App.css
- App.js
- App.test.js
- Formulario.js
- index.css
- index.js
- logo.svg
- reportWebVitals.js
- setupTests.js
- Tabela.js

.gitignore

package-lock.json

package.json

README.md

```
front > src > Tabela.js > Tabela
1  function Tabela(){
2    return(
3      |
4    )
5 }
6
7 export default Tabela;
```

A red arrow points to the opening `<h1>` tag in the code.

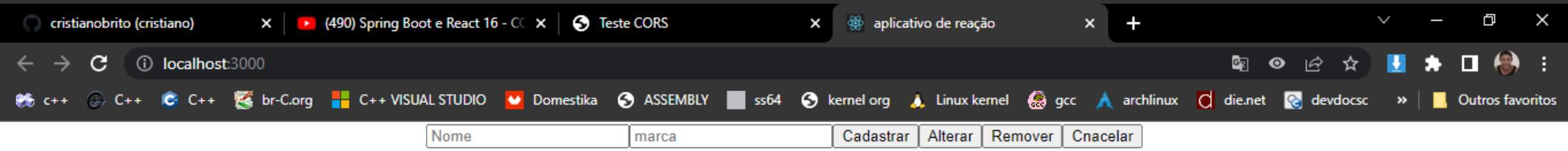
REMOVA ESSE H1

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

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** Tabela.js - FRONT-END - Visual Studio Code
- Explorer View (Left):** Shows a file tree for a "FRONT-END" project. The "front" folder contains "node_modules" and "public". The "src" folder contains "App.css", "App.js", "App.test.js", "Formulario.js", "index.css", "index.js", "logo.svg", "reportWebVitals.js", "setupTests.js", and "Tabela.js". It also lists ".gitignore", "package-lock.json", "package.json", and "README.md".
- Code Editor (Right):** The "Tabela.js" file is open. The code defines a functional component "Tabela" that returns a table with four columns: "#", "Nome", "Marca", and "Selecionar". The "Selecionar" column contains a placeholder text "Select".
- Status Bar (Bottom):** A green message in bold text: "Save and go to the browser".

```
function Tabela(){
  return(
    <table>
      <thead>
        <tr>
          <th>#</th>
          <th>Nome</th>
          <th>Marca</th>
          <th>Selecionar</th>
        </tr>
      </thead>
      <tbody>
        <tr>
          <td></td>
          <td></td>
          <td></td>
          <td></td>
        </tr>
      </tbody>
    </table>
  )
}

export default Tabela;
```



Nome marca selecionar

#21
ESTILIZANDO COMPONENTES

getbootstrap.com/docs/5.2/getting-started/introduction/#cdn-links

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

Docs Examples Icons Themes Blog Search CTRL K

inglês português Sempre traduzir do inglês Google Translate

v5.2

Getting started

Introduction

Download

Contents

Browsers & devices

JavaScript

Webpack

Parcel

Vite

Accessibility

RFS

RTL

Contribute

Customize

Overview

Sass

Options

Color

CDN links

As reference, here are our primary CDN links.

| Description | URL |
|-------------|---|
| CSS | https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/bootstrap.min.css |
| JS | https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/js/bootstrap.bundle.min.js |

You can also use the CDN to fetch any of our [additional builds listed in the Contents page](#).

Next steps

- Read a bit more about some [important global environment settings](#) that Bootstrap utilizes.
- Read about what's included in Bootstrap in our [contents section](#) and the list of [components that require JavaScript](#) below.
- Need a little more power? Consider building with Bootstrap by [including the source files via package manager](#).
- Looking to use Bootstrap as a module with `<script type="module">`? Please refer to our [using Bootstrap as a module](#) section.

LINK DO
BOOTSTRAP

CDN links

As reference, here are our primary CDN links.

| Description | URL |
|-------------|---|
| CSS | https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/bootstrap.min.css |
| JS | https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/js/bootstrap.bundle.min.js |

You can also use the CDN to fetch any of our additional builds listed in the [Contents](#) page.

Next steps

- Read a bit more about some [important global environment settings](#) that Bootstrap utilizes.
 - Read about what's included in Bootstrap in our [contents section](#) and the list of [components that require JavaScript](#) below.
 - Need a little more power? Consider building with Bootstrap by [including the source files via package manager](#).
 - Looking to use Bootstrap as a module with `<script type="module">`? Please refer to our [using Bootstrap as a module](#) section.

Community

Copy o link do css mas se fosse usar javascript copiaria tambem o js

← → ⌂ 🔍 getbootstrap.com

c++ C++ C++ br-C.org C++ VISUAL STUDIO Domestika ASSEMBLY ss64 kernel org Linux kernel gcc archlinux die.net devdocs Outros favoritos

B Documentos Exemplos Ícones Temas blog

v5.3

Instalar via gerenciador de pacotes

Instale os arquivos Sass e JavaScript de origem do Bootstrap via npm, RubyGems, Composer ou Meteor. As instalações gerenciadas por pacote não incluem documentação ou nossos scripts de compilação completos. Você também pode [usar nosso repositório de modelos npm](#) para gerar rapidamente um projeto Bootstrap via npm.

```
$ npm install bootstrap@5.3.0-alpha1
```

```
$ gem install bootstrap -v 5.3.0-alpha1
```

[Leia nossos documentos de instalação](#) para obter mais informações e gerenciadores de pacotes adicionais.

Incluir via CDN

Quando você só precisa incluir o CSS ou JS compilado do Bootstrap, você pode usar [jsDelivr](#). [Veja-o em ação](#) em nosso [início rápido](#) simples ou [navegue pelos exemplos](#) para iniciar seu próximo projeto. Você também pode optar por incluir Popper e nosso JS [separadamente](#).

```
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css" rel="stylesheet">
```

```
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js" integrity="sha384-KnHt8GjUdM8/2Z4RwQfLXoBjEz+qkxV0CkqYmK4OyqD8W3iNqPZ+D8H0J+q0" crossorigin="anonymous">
```

Copiar para área de transferência

Copie daqui e cole lá

Leia nossos guias de primeiros passos

Comence a incluir os arquivos de origem do Bootstrap em um novo projeto com nossos guias oficiais

32°C Pred. nu... 13:28

File Edit Selection View Go Run Terminal Help

index.html - FRONT-END - Visual Studio Code

EXPLORER

FRONT-END

front > public > index.html

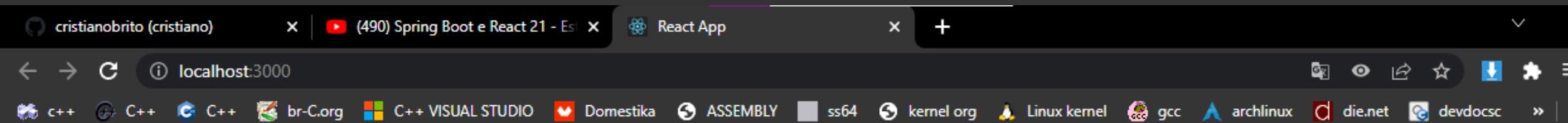
Formulario.js U Tabela.js U index.html M App.js M

```
front > public > index.html > html > head > link
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="utf-8" />
5      <link rel="icon" href="%PUBLIC_URL%/favicon.ico" />
6      <meta name="viewport" content="width=device-width, initial-scale=1" />
7      <meta name="theme-color" content="#000000" />
8      <meta
9          name="description"
10         content="Web site created using create-react-app"
11     />
12     <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-Gh"
13     <link rel="apple-touch-icon" href="%PUBLIC_URL%/logo192.png" />
14     <!--
15         manifest.json provides metadata used when your web app is installed on a
16         user's mobile device or desktop. See https://developers.google.com/web/fundamentals/web-app-manifest/
17     -->
18     <link rel="manifest" href="%PUBLIC_URL%/manifest.json" />
19     <!--
20         Notice the use of %PUBLIC_URL% in the tags above.
21         It will be replaced with the URL of the 'public' folder during the build.
22         Only files inside the 'public' folder can be referenced from the HTML.
23
24         Unlike "/favicon.ico" or "favicon.ico", "%PUBLIC_URL%/favicon.ico" will
25         work correctly both with client-side routing and a non-root public URL.
26         Learn how to configure a non-root public URL by running `npm run build`.
27     -->
28 
```

Output (Ctrl+Shift+U) : App</title>

PROBLEMS OUTPUT TERMINAL

Salve e va no navegador



Vamos estilizar

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

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** Formulario.js - FRONT-END - Visual Studio Code
- Explorer View:** Shows the project structure under "FRONT-END".
 - "front" folder contains "node_modules" and "public".
 - "src" folder contains "App.css", "App.js", "App.test.js", "Formulario.js" (selected), "index.css", "index.js", "logo.svg", "reportWebVitals.js", "setupTests.js", "Tabela.js".
 - Global files: ".gitignore", "package-lock.json", "package.json", "README.md".
- Code Editor:** Displays the content of "Formulario.js".

```
function Formulario(){
  return(
    <form>
      <input type='text' placeholder='Nome' className='form-control' />
      <input type='text' placeholder='Marca' className='form-control' />

      <input type='button' value='Cadastrar' />
      <input type='button' value='Alterar' />
      <input type='button' value='Remover' />
      <input type='button' value='Cancelar' />
    </form>
  )
}

export default Formulario;
```

Adicione salve e va no navegador

cristianobrito (cristiano) | (491) Spring Boot e React 21 - Es | aplicativo de reação

localhost:3000

c++ C++ C++ br-C.org C++ VISUAL STUDIO Domestika ASSEMBLY ss64 kernel org Linux kernel gcc archlinux die.net devdocsc Outros favoritos

Nome: marca

Cadastrar Alterar Remover Cancelar

Nome marca selecionar

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

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** Formulario.js - FRONT-END - Visual Studio Code
- Explorer:** Shows the project structure under "FRONT-END":
 - front (directory)
 - node_modules
 - public
 - src (directory)
 - App.css
 - App.js
 - App.test.js
 - Formulario.js (selected)
 - index.css
 - index.js
 - logo.svg
 - reportWebVitals.js
 - setupTests.js
 - Tabela.js
 - .gitignore
 - package-lock.json
 - package.json
 - README.md
- Code Editor:** The "Formulario.js" file is open, showing the following code:

```
function Formulario(){
  return(
    <form>
      <input type='text' placeholder='Nome' className='form-control' />
      <input type='text' placeholder='Marca' className='form-control' />

      <input type='button' value='Cadastrar' className='btn btn-primary' />
      <input type='button' value='Alterar' className='btn btn-warning' />
      <input type='button' value='Remover' className='btn btn-danger' />
      <input type='button' value='Cancelar' className='btn btn-secondary' />
    </form>
  )
}

export default Formulario;
```

Save e va no navegador

cristianobrito (cristiano) | (491) Spring Boot e React 21 - Es... | aplicativo de reação

localhost:3000

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

Nome
marca

Cadastrar Alterar Remover Cancelar

Nome marca selecionar

File Edit Selection View Go Run Terminal Help

Tabela.js - FRONT-END - Visual Studio Code

EXPLORER

FRONT-END

- front
- node_modules
- public
- src
 - App.css
 - App.js
 - App.test.js
 - Formulario.js
 - index.css
 - index.js
 - logo.svg
 - reportWebVitals.js
 - setupTests.js
- Tabela.js
- .gitignore
- package-lock.json
- package.json
- README.md

front > src > Tabela.js > Tabela

```
1 function Tabela(){
2     return(
3         <table className='table'>
4             <thead>
5                 <tr>
6                     <th>#</th>
7                     <th>Nome</th>
8                     <th>Marca</th>
9                     <th>Selecionar</th>
10                </tr>
11            </thead>
12            <tbody>
13                <tr>
14                    <td></td>
15                    <td></td>
16                    <td></td>
17                    <td></td>
18                </tr>
19            </tbody>
20        </table>
21    }
22}
23
24 export default Tabela;
```

cristianobrito (cristiano) x | (491) Spring Boot e React 21 - Es x aplicativo de reação x +

localhost:3000

c++ C++ C++ br-C.org C++ VISUAL STUDIO Domestika ASSEMBLY ss64 kernel org Linux kernel gcc archlinux die.net devdocsc » Outros favoritos

Nome
marca

Cadastrar Alterar Remover Cancelar

| # | Nome | marca | selecionar |
|---|------|-------|------------|
|---|------|-------|------------|

File Edit Selection View Go Run Terminal Help App.css - FRONT-END - Visual Studio Code

FRONT-END

front > src > App.css > App

```
1 .App {  
2   text-align: center;  
3 }  
4  
5 .App-logo {  
6   height: 40vmin;  
7   pointer-events: none;  
8 }  
9  
10 @media (prefers-reduced-motion: no-preference) {  
11   .App-logo {  
12     animation: App-logo-spin infinite 20s linear;  
13   }  
14 }  
15  
16 .App-header {  
17   background-color: #282c34;  
18   min-height: 100vh;  
19   display: flex;  
20   flex-direction: column;  
21   align-items: center;  
22   justify-content: center;  
23   font-size: calc(10px + 2vmin);  
24   color: white;  
25 }  
26  
27 .App-link {  
28   color: #61dafb;
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

TERMINAL

```
npm ERR! errno -4058  
npm ERR! enoent ENOENT: no such file or directory, open 'E:\FRONT-END\package.json'  
npm ERR! enoent This is related to npm not being able to find a file.  
npm ERR! enoent  
  
npm ERR! A complete log of this run can be found in:  
Compiled successfully!
```

DEBUG CONSOLE

powershell node

master* You can now view front in the browser.

Ln 1, Col 1 Spaces: 2 UTF-8 LF CSS Go Live

33°C Pred. nu... 13:39

The screenshot shows the Visual Studio Code interface. The Explorer sidebar on the left displays a project structure under 'FRONT-END'. The 'src' folder contains files: App.css, App.js (selected), App.test.js, Formulario.js, index.css, index.js, logo.svg, reportWebVitals.js, setupTests.js, and Tabela.js. The 'front' folder contains node_modules, public, and src. The 'File' bar at the top shows 'App.js - FRONT-END - Visual Studio C'. The code editor on the right shows the following code:

```
front > src > App.js > App
1 import './App.css';
2 import Formulario from './Formulario';
3 import Tabela from './Tabela';
4
5 function App() {
6   return (
7     <div className="App">
8       <Formulario />
9       <Tabela />
10    </div>
11  );
12}
13
14
15 export default App;
```

A green arrow points from the 'App.js' icon in the Explorer to the 'className' prop in the code editor. A green text overlay at the bottom reads 'Remova tambem o calssName do App.js'.

Remova tambem o calssName do App.js

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

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** App.js - FRONT-END - Visual Studio
- Explorer View:** Shows the project structure under "FRONT-END".
 - front (Folder)
 - node_modules
 - public
 - src (Folder)
 - App.css
 - App.js (Selected)
 - App.test.js
 - Formulario.js
 - index.css
 - index.js
 - logo.svg
 - reportWebVitals.js
 - setupTests.js
 - Tabela.js
- Code Editor:** Displays the content of App.js.

```
front > src > App.js > ...
1 import './App.css';
2 import Formulario from './Formulario';
3 import Tabela from './Tabela';
4
5 function App() {
6   return (
7     <div> <Formulario />
8     <Tabela />
9   </div>
10 }
11
12
13 }
14
15 export default App;
16
```

The screenshot shows a dark-themed instance of Visual Studio Code. The top navigation bar includes File, Edit, Selection, View, Go, Run, Terminal, and Help. The title bar indicates the current file is App.css - FRONT-END - Visual Studio Code.

The Explorer sidebar on the left lists the project structure:

- FRONT-END
- front
 - node_modules
 - public
 - src
 - App.css
 - App.js
 - App.test.js
 - Formulario.js
 - index.css
 - index.js
 - logo.svg
 - reportWebVitals.js
 - setupTests.js
 - Tabela.js
- .gitignore
- package-lock.json
- package.json
- README.md

The main code editor area displays the following CSS code:

```
front > src > App.css > form
1 form{
2   width: 500px;
3   margin: 30px auto;
4 }
```

Screenshot of a web browser showing a form and a table.

The browser tabs are:

- cristianobrito (cristiano)
- (491) Spring Boot e React 21 - Es
- aplicativo de reação

The address bar shows `localhost:3000`.

The bookmarks bar includes:

- c++
- C++
- C++
- br-C.org
- C++ VISUAL STUDIO
- Domestika
- ASSEMBLY
- ss64
- kernel org
- Linux kernel
- gcc
- archlinux
- die.net
- devdocsc
- Outros favoritos

The main content area displays a modal dialog with the following fields:

- Nome: input field
- marca: input field

Below the modal are four buttons:

- Cadastrar (blue)
- Alterar (yellow)
- Remover (red)
- Cancelar (gray)

Below the modal, there is a table with the following structure:

| # | Nome | marca | selecionar |
|----|----------|-------|------------|
| 1 | BMW | | |
| 2 | Fiat | | |
| 3 | VW | | |
| 4 | Mercedes | | |
| 5 | Audi | | |
| 6 | Lexus | | |
| 7 | BMW | | |
| 8 | Fiat | | |
| 9 | VW | | |
| 10 | Mercedes | | |
| 11 | Audi | | |
| 12 | Lexus | | |

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

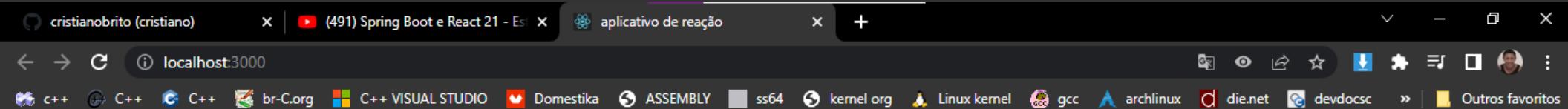
- File Menu:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** App.css - FRONT-END - Visual Studio Code.
- Explorer Bar:** Shows the project structure under "FRONT-END".
 - front**: Contains node_modules, public, and src.
 - src**: Contains App.css (selected), App.js, App.test.js, Formulario.js, index.css, index.js, logo.svg, reportWebVitals.js, setupTests.js, Tabela.js, .gitignore, package-lock.json, package.json, and README.md.
- Code Editor:** Displays the content of App.css.

```
front > src > App.css > ...
1 form{
2   width: 500px;
3   margin: 30px auto;
4 }
5
6 form input{
7   margin-bottom: 5px;
8 }
9
10 form input[type='button']{
11   margin-right: 10px;
12 }
13
```

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

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** App.css - FRONT-END - Visual Studio Code
- Explorer:** Shows the project structure under "FRONT-END".
 - front
 - node_modules
 - public
 - src
 - App.css (selected)
 - App.js
 - App.test.js
 - Formulario.js
 - index.css
 - index.js
 - logo.svg
 - reportWebVitals.js
 - setupTests.js
 - Tabela.js
 - .gitignore
 - package-lock.json
 - package.json
 - README.md
- Code Editor:** Displays the content of App.css.

```
1  form{  
2    width: 500px;  
3    margin: 30px auto;  
4    text-align: center;  
5  }  
6  
7  form input{  
8    margin-bottom: 5px;  
9  }  
10  
11 form input[type='button']{  
12   margin-right: 10px;  
13 }  
14
```



Nome

marca

Cadastrar **Change** **Remover** **Cancelar**

| # | Nome | marca | selecionar |
|---|------|-------|------------|
| | | | |

#22
VISIBILIDADE DOS BOTÕES



EXPLORER

FRONT-END

- front
 - node_modules
 - public
 - src
 - App.css
 - App.js
 - App.test.js
 - Formulario.js
 - index.css
 - index.js
 - logo.svg
 - reportWebVitals.js
 - setupTests.js
 - Tabela.js
- .gitignore
- package-lock.json
- package.json
- README.md

...

Formulario.js U

Tabela.js U

App.css M

App.js 1, M X

front > src > App.js > ...

```
1 import { useState } from 'react'; ←
2 import './App.css';
3 import Formulario from './Formulario';
4 import Tabela from './Tabela';
5
6 function App() {
7
8   // HOOKS
9   const [btnCadastrar, setBtnCadastrar] = useState(true); ←
10
11   return (
12     <div>
13       <Formulario botao={btnCadastrar} /> ←
14       <Tabela />
15     </div>
16   );
17 }
18
19
20 export default App;
21
```

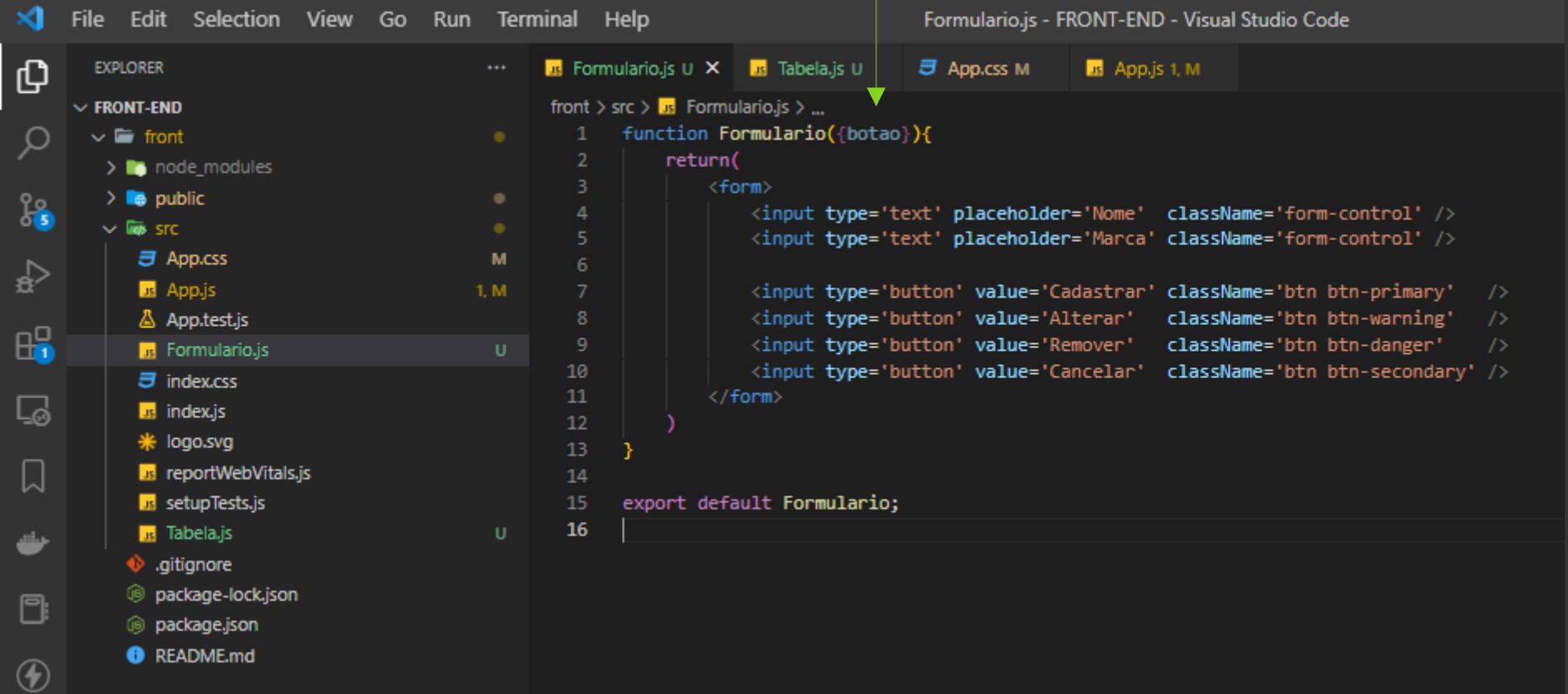
PROBLEMS 1

OUTPUT

TERMINAL

App.js front\src 1

⚠ 'setBtnCadastrar' is assigned a value but never used. eslint[no-unused-vars] [Ln 9, Col 24]



File Edit Selection View Go Run Terminal Help

Formulario.js - FRONT-END - Visual Studio Code

EXPLORER

FRONT-END

front

node_modules

public

src

App.css

App.js

App.test.js

Formulario.js

index.css

index.js

logo.svg

reportWebVitals.js

setupTests.js

Tabela.js

.gitignore

package-lock.json

package.json

README.md

```
1  function Formulario({botao}){
2      return(
3          <form>
4              <input type='text' placeholder='Nome' className='form-control' />
5              <input type='text' placeholder='Marca' className='form-control' />
6
7              <input type='button' value='Cadastrar' className='btn btn-primary' />
8              <input type='button' value='Alterar' className='btn btn-warning' />
9              <input type='button' value='Remover' className='btn btn-danger' />
10             <input type='button' value='Cancelar' className='btn btn-secondary' />
11         </form>
12     )
13 }
14
15 export default Formulario;
16 |
```

FRONT-END

front > src > Formulario.js

```
1  function Formulario({botao}){
2      return(
3          <form>
4              <input type='text' placeholder='Nome' className='form-control' />
5              <input type='text' placeholder='Marca' className='form-control' />
6
7
8      <div>
9          botao
10         ?
11             <input type='button' value='Cadastrar' className='btn btn-primary' />
12             :
13             <div>
14                 <input type='button' value='Alterar' className='btn btn-warning' />
15                 <input type='button' value='Remover' className='btn btn-danger' />
16                 <input type='button' value='Cancelar' className='btn btn-secondary' />
17             </div>
18         )
19
20
21     </form>
22 )
23 }
24
25 export default Formulario;
```

PROBLEMS 1 OUTPUT TERMINAL

Filter (e.g. text, **/*.ts, **/node_modules/**)

Salve e va no navegador

A screenshot of a web browser window titled "aplicativo de reação". The address bar shows "localhost:3000". The page content includes a form with two input fields: "Nome" and "marca", and a blue "Cadastrar" button. Below the form is a table with three columns: "#", "Nome", and "marca". The "Nome" column contains the value "marc". A green annotation at the bottom of the table says "selecionar".

| # | Nome | marca | selecionar |
|---|------|-------|------------|
| | marc | | |

Agora os outros botões só aparecem quando forem validados



EXPLORER

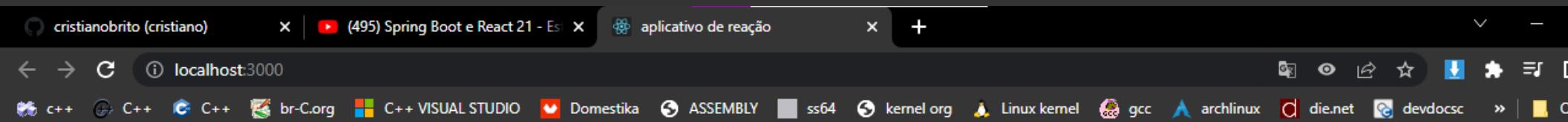
FRONT-END

- front
 - node_modules
 - public
 - src
 - App.css
 - App.js
 - App.test.js
 - Formulario.js
 - index.css
 - index.js
 - logo.svg
 - reportWebVitals.js
 - setupTests.js
 - Tabela.js

```
front > src > App.js > ...
1 import { useState } from 'react';
2 import './App.css';
3 import Formulario from './Formulario';
4 import Tabela from './Tabela';
5
6 function App() {
7
8     // HOOKS
9     const [btnCadastrar, setBtnCadastrar] = useState(false);
10
11    return (
12        <div>
13            <Formulario botao={btnCadastrar} />
14            <Tabela />
15        </div>
16    );
17}
18
19
20 export default App;
21
```



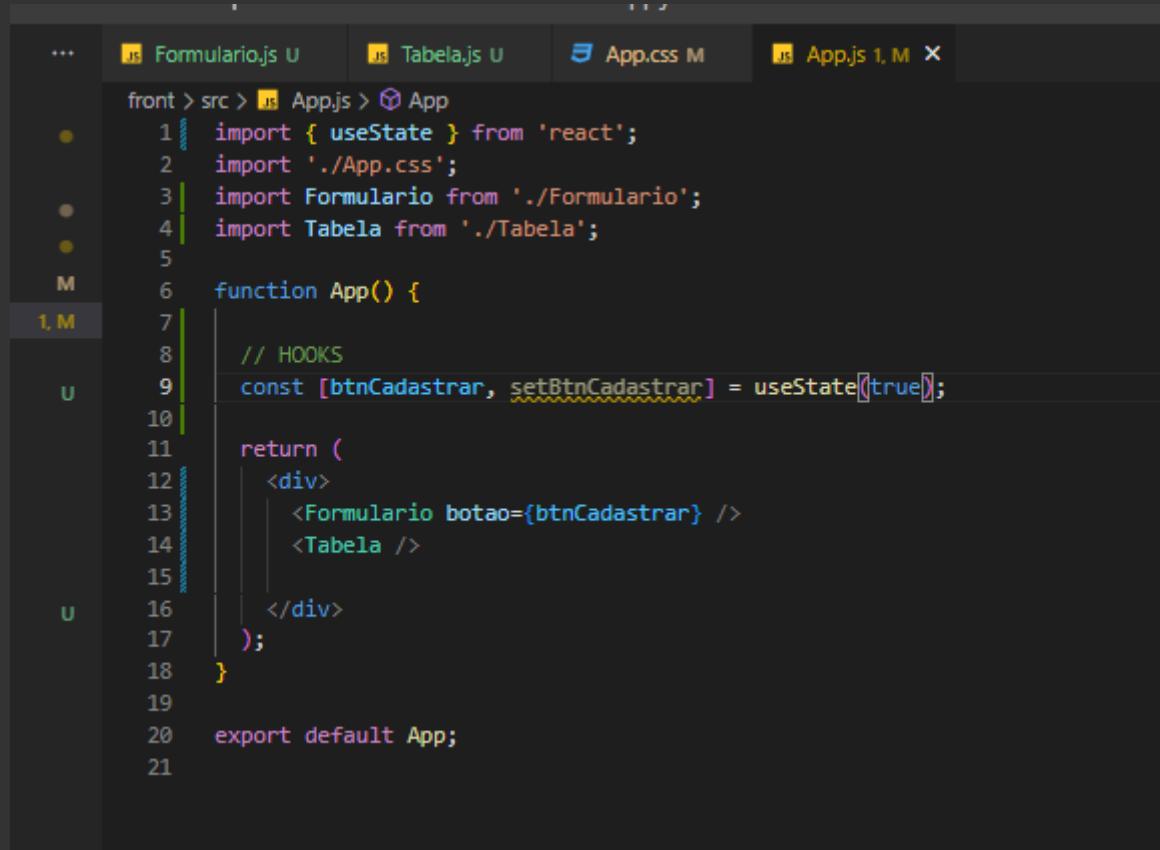
Altere salve e va no navegador



Alterar Removedor Cancelar

| # | Nome | marca | selecionar |
|---|------|-------|------------|
|---|------|-------|------------|

Volte pra true pra seguir com o tutorial



The screenshot shows a code editor with a dark theme. The top navigation bar includes tabs for 'Formulario.js U', 'Tabela.js U', 'App.css M', and 'App.js 1, M X'. A sidebar on the left displays a file tree with 'front > src > App.js' and a list of changes: '1, M' (marked with a yellow dot), 'U' (marked with a green dot), and 'M' (marked with a blue dot). The main code area contains the following code:

```
front > src > App.js > App
1 import { useState } from 'react';
2 import './App.css';
3 import Formulario from './Formulario';
4 import Tabela from './Tabela';
5
6 function App() {
7
8     // HOOKS
9     const [btnCadastrar, setBtnCadastrar] = useState(true);
10
11    return (
12        <div>
13            <Formulario botao={btnCadastrar} />
14            <Tabela />
15        </div>
16    );
17}
18
19
20 export default App;
21
```

#23
OBTEBDO PRODUTOS

