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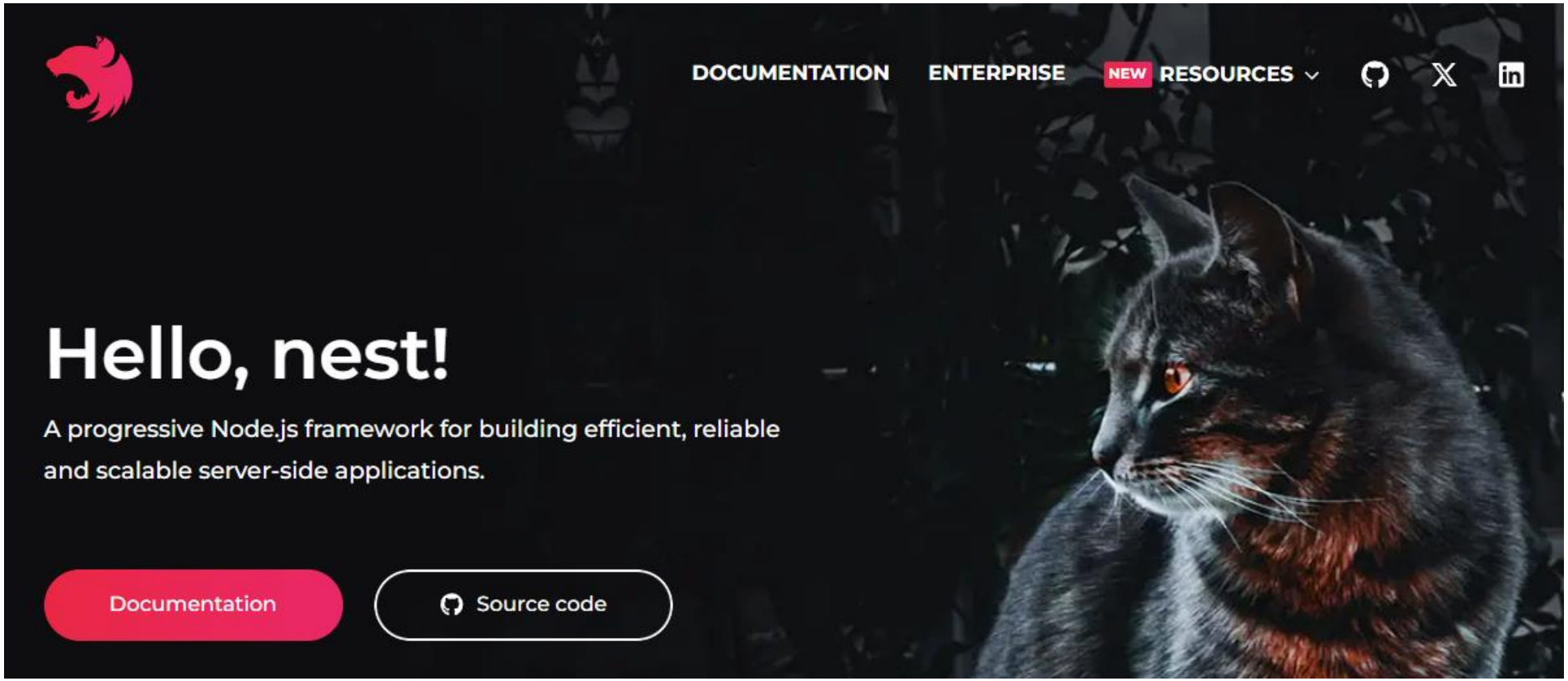
Nest.js



Prof. Dr. Robyson Aggio

www.aggioirati.com.br

Introdução

- Nest JS
- Estrutura e Arquitetura → Modules, Providers, Exports, Imports
- Controllers / Services
- DTO's, Pipes
- Prisma ORM, Banco de Dados → Middlewares, Filters, Interceptors, guards → Autenticação → Upload Arquivos
- Melhorando Arquitetura → Testes Automatizados → Swagger

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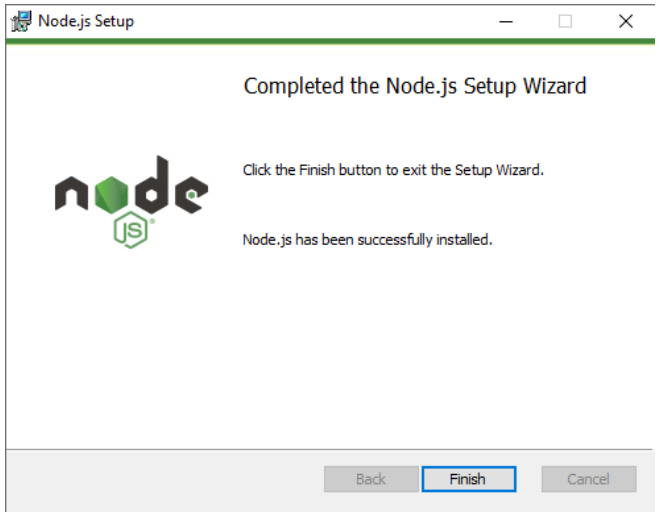
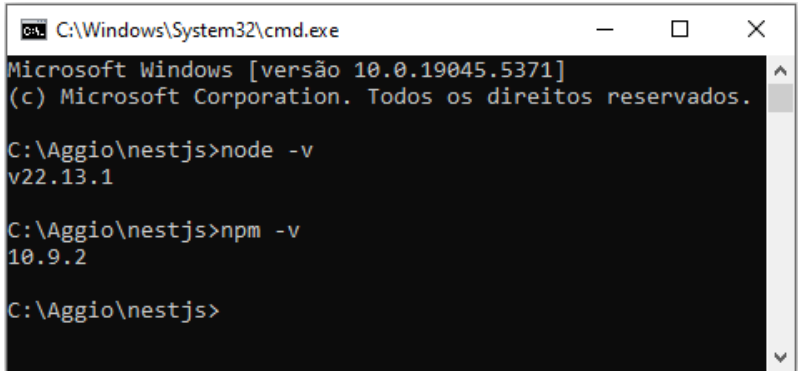
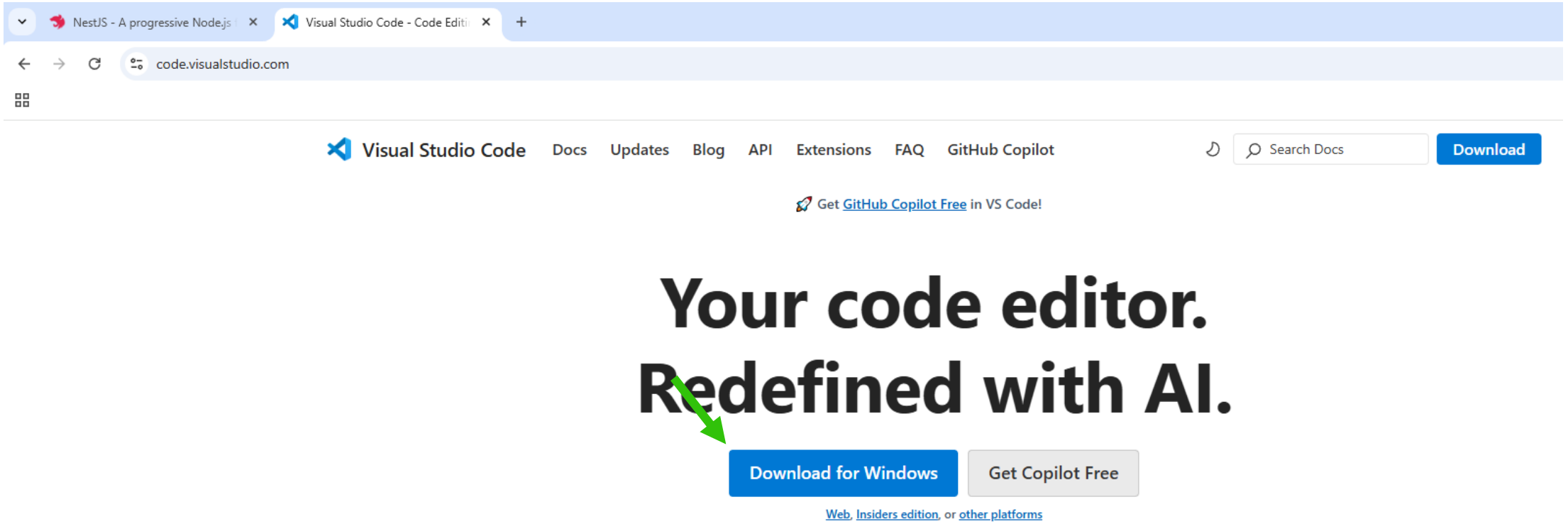




npm = Node Package Manager

Visual Studio Code



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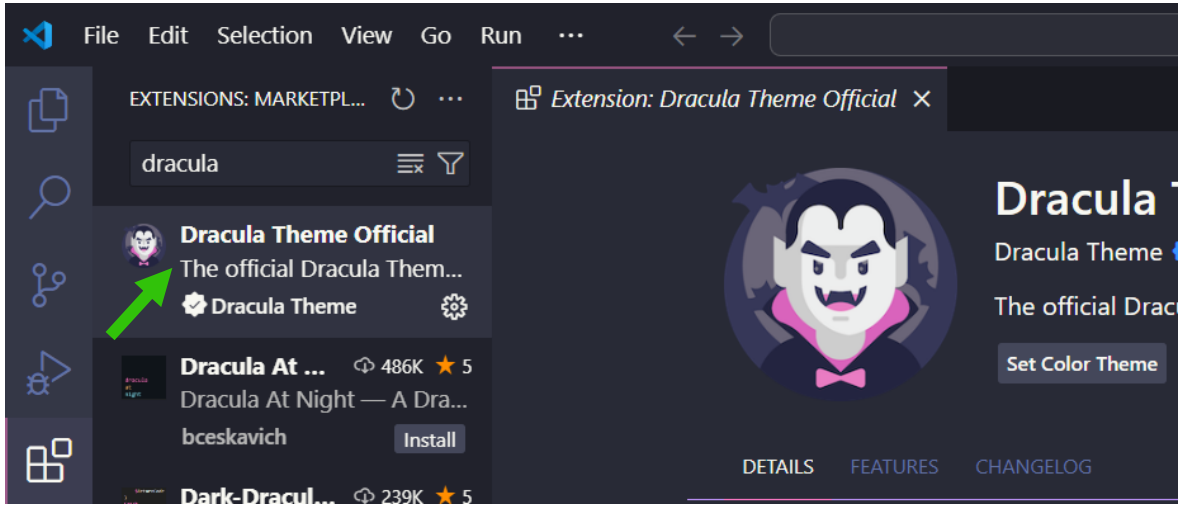
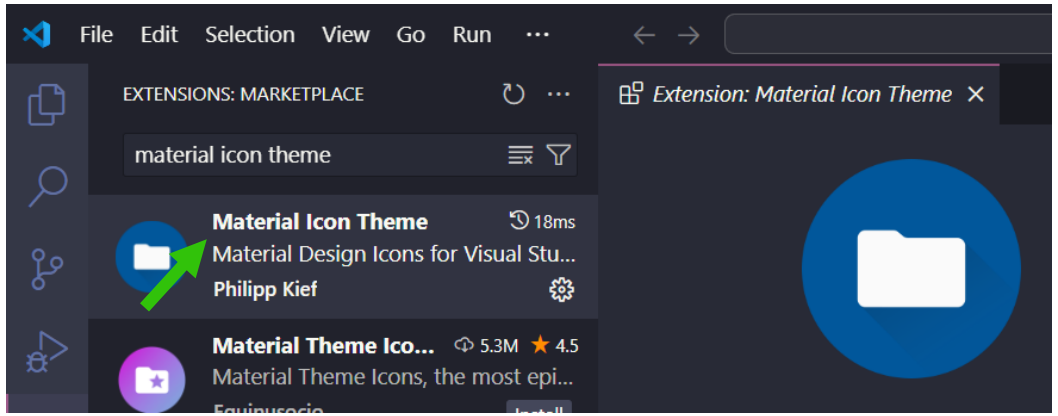
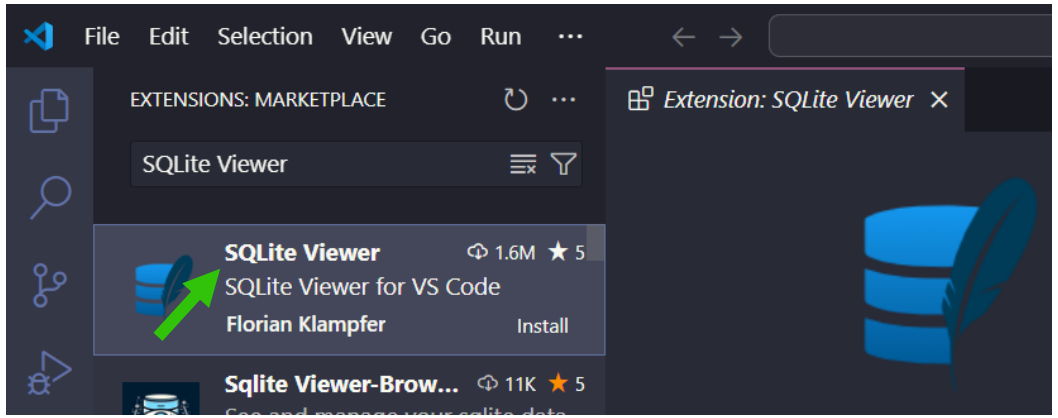
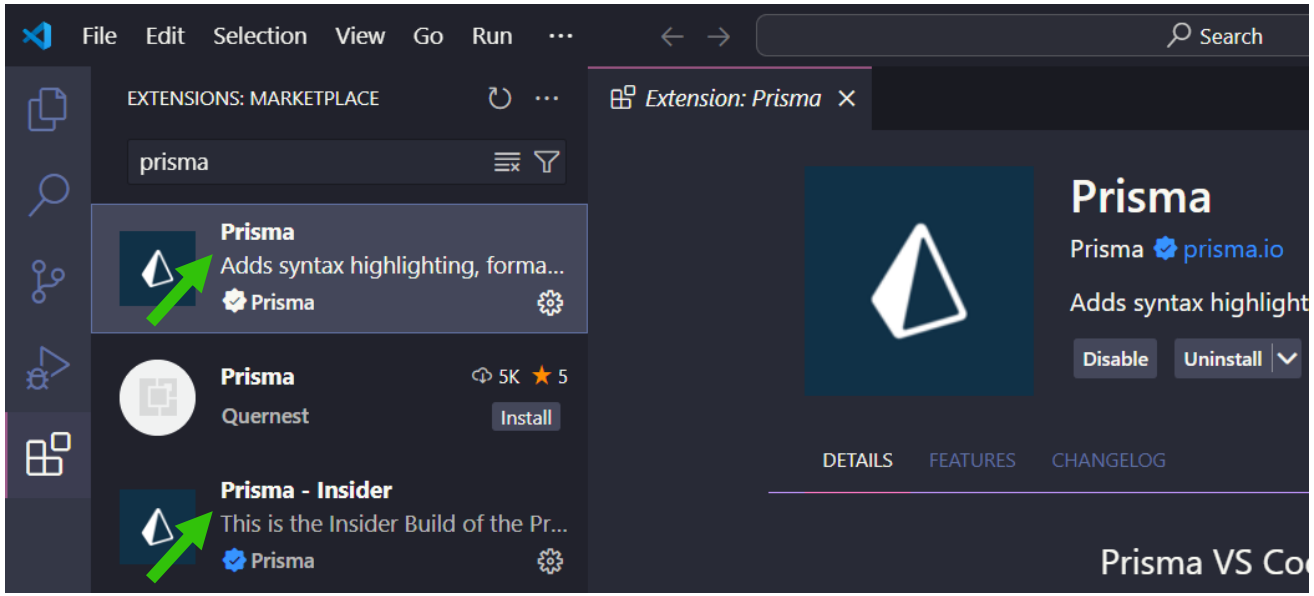
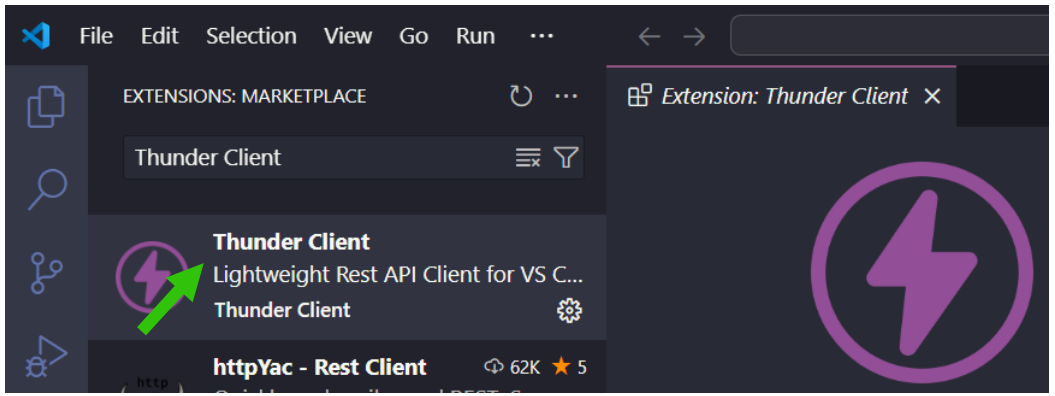
Visual Studio Code



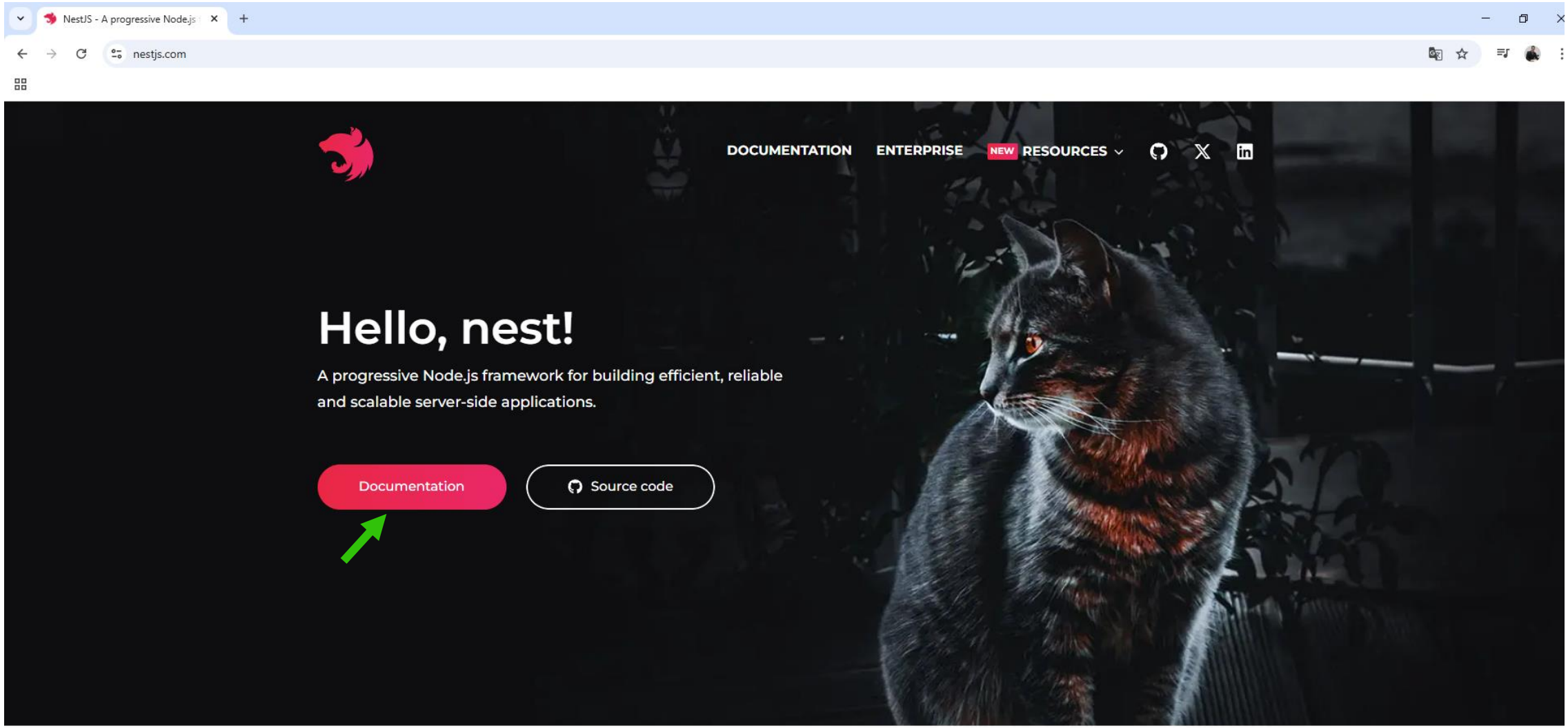








Nest JS


NestJS - A progressive Node.js
nestjs.com
DOCUMENTATION
ENTERPRISE
NEW RESOURCES
Hello, nest!
A progressive Node.js framework for building efficient, reliable and scalable server-side applications.
Documentation
Source code

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Documentation | NestJS - A pro

docs.nestjs.com

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Introduction

Nest (NestJS) is a framework for building efficient, scalable Node.js server-side applications. It uses progressive JavaScript, is built with and fully supports TypeScript (yet still enables developers to code in pure JavaScript) and combines elements of OOP (Object Oriented Programming), FP (Functional Programming), and FRP (Functional Reactive Programming).

Under the hood, Nest makes use of robust HTTP Server frameworks like Express (the defau

Nest provides a level of abstraction above these common Node.js frameworks (Express/Fa the myriad of third-party modules which are available for the underlying platform.

Philosophy

In recent years, thanks to Node.js, JavaScript has become the "lingua franca" of the web fo and Vue, which improve developer productivity and enable the creation of fast, testable, a exist for Node (and server-side JavaScript), none of them effectively solve the main proble

Nest provides an out-of-the-box application architecture which allows developers and tea architecture is heavily inspired by Angular.

Installation

To get started, you can either scaffold the project with the Nest CLI, or clone a starter proj

To scaffold the project with the Nest CLI, run the following commands. This will create a ne modules, creating a conventional base structure for your project. Creating a new project wi Steps.

```
$ npm i -g @nestjs/cli
$ nest new project-name
```

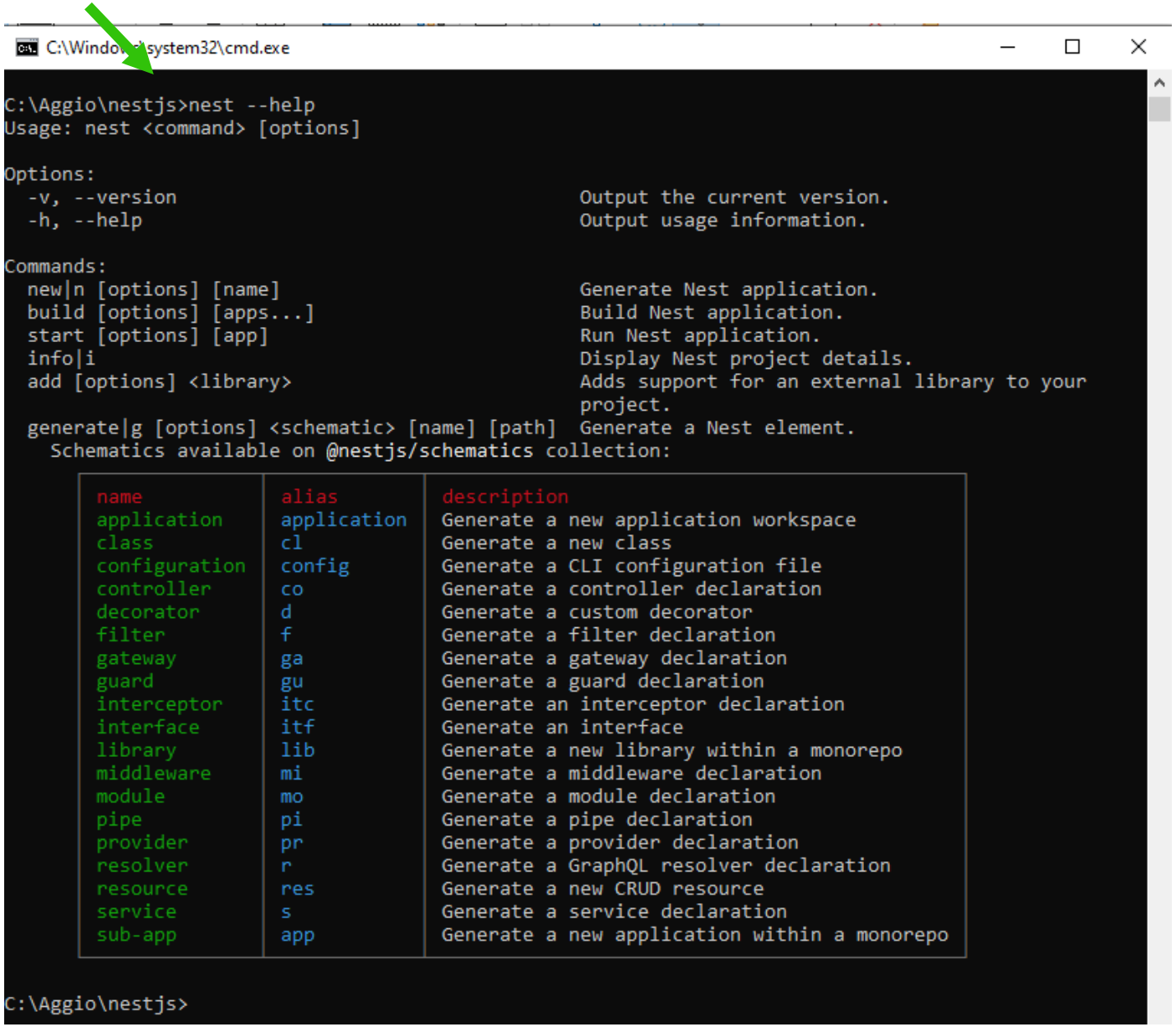

C:\Windows\System32\cmd.exe

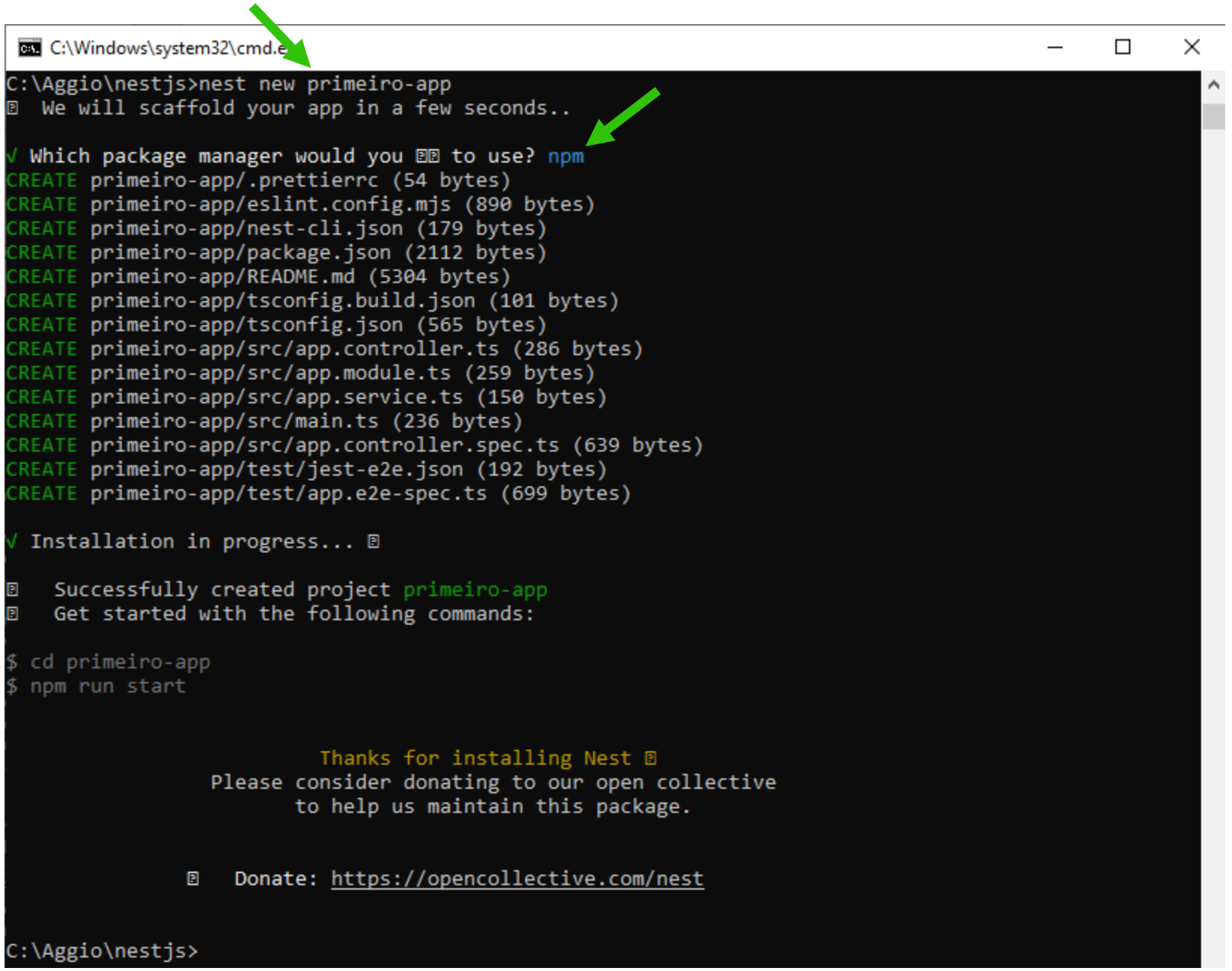
```
Microsoft Windows [versão 10.0.19045.5371]
(c) Microsoft Corporation. Todos os direitos reservados.

C:\Aggio\nestjs>node -v
v22.13.1

C:\Aggio\nestjs>npm -v
10.9.2

C:\Aggio\nestjs>npm i -g @nestjs/cli
```


C:\Windows\system32\cmd.exe
C:\Aggio\nestjs>nest --help
Usage: nest <command> [options]
Options:
-v, --version Output the current version.
-h, --help Output usage information.
Commands:
new|n [options] [name] Generate Nest application.
build [options] [apps...] Build Nest application.
start [options] [app] Run Nest application.
info|i Display Nest project details.
add [options] <library> Adds support for an external library to your project.
generate|g [options] <schematic> [name] [path] Generate a Nest element.
Schematics available on @nestjs/schematics collection:
name alias description
application application Generate a new application workspace
class cl Generate a new class
configuration config Generate a CLI configuration file
controller co Generate a controller declaration
decorator d Generate a custom decorator
filter f Generate a filter declaration
gateway ga Generate a gateway declaration
guard gu Generate a guard declaration
interceptor itc Generate an interceptor declaration
interface itf Generate an interface
library lib Generate a new library within a monorepo
middleware mi Generate a middleware declaration
module mo Generate a module declaration
pipe pi Generate a pipe declaration
provider pr Generate a provider declaration
resolver r Generate a GraphQL resolver declaration
resource res Generate a new CRUD resource
service s Generate a service declaration
sub-app app Generate a new application within a monorepo
C:\Aggio\nestjs>


C:\Windows\system32\cmd.e
C:\Aggio\nestjs>nest new primeiro-app
We will scaffold your app in a few seconds..
√ Which package manager would you to use? npm
CREATE primeiro-app/.prettierrc (54 bytes)
CREATE primeiro-app/eslint.config.mjs (890 bytes)
CREATE primeiro-app/nest-cli.json (179 bytes)
CREATE primeiro-app/package.json (2112 bytes)
CREATE primeiro-app/README.md (5304 bytes)
CREATE primeiro-app/tsconfig.build.json (101 bytes)
CREATE primeiro-app/tsconfig.json (565 bytes)
CREATE primeiro-app/src/app.controller.ts (286 bytes)
CREATE primeiro-app/src/app.module.ts (259 bytes)
CREATE primeiro-app/src/app.service.ts (150 bytes)
CREATE primeiro-app/src/main.ts (236 bytes)
CREATE primeiro-app/src/app.controller.spec.ts (639 bytes)
CREATE primeiro-app/test/jest-e2e.json (192 bytes)
CREATE primeiro-app/test/app.e2e-spec.ts (699 bytes)
√ Installation in progress...
Successfully created project primeiro-app
Get started with the following commands:
$ cd primeiro-app
$ npm run start
Thanks for installing Nest
Please consider donating to our open collective
to help us maintain this package.
Donate: https://opencollective.com/nest
C:\Aggio\nestjs>

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C:\Windows\system32\cmd.exe

```
√ Installation in progress... ⠿

⠿   Successfully created project primeiro-app
⠿   Get started with the following commands:

$ cd primeiro-app
$ npm run start


                    Thanks for installing Nest ⠿
                Please consider donating to our open collective
                       to help us maintain this package.


               ⠿   Donate: https://opencollective.com/nest


C:\Aggio\nestjs>cd primeiro-app

C:\Aggio\nestjs\primeiro-app>code .

C:\Aggio\nestjs\primeiro-app>
```

Terminal no VSCode:
ctrl + j

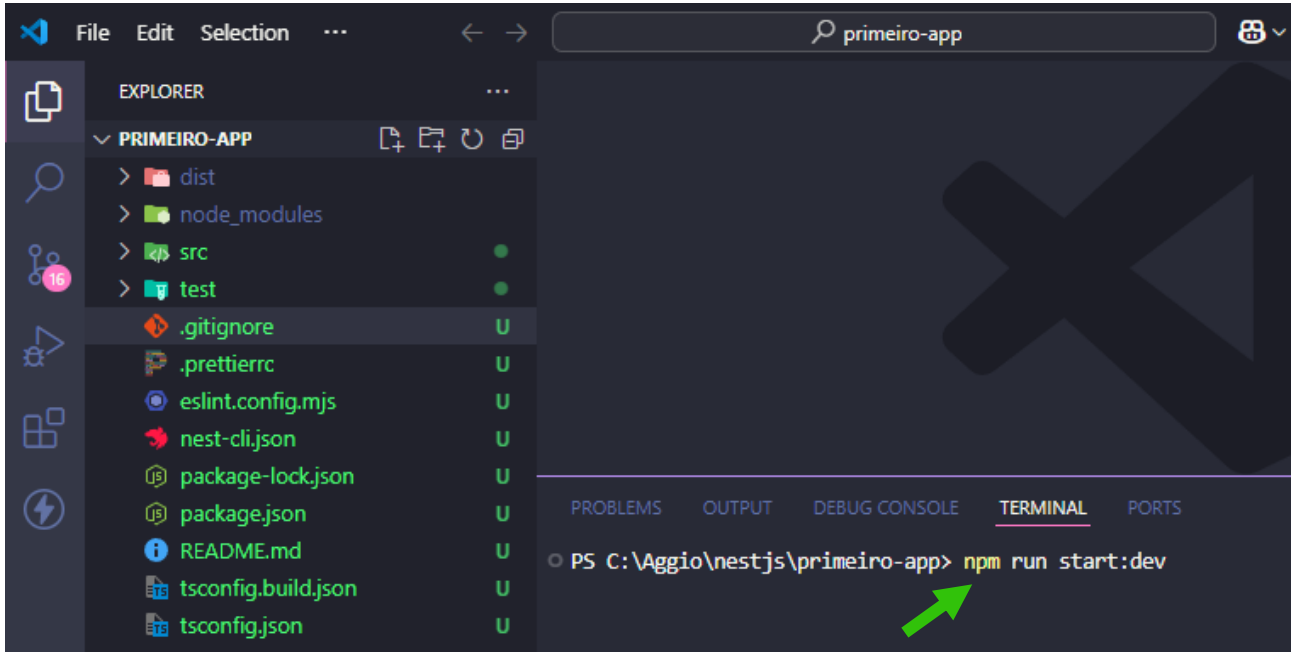
Prompt de Comando

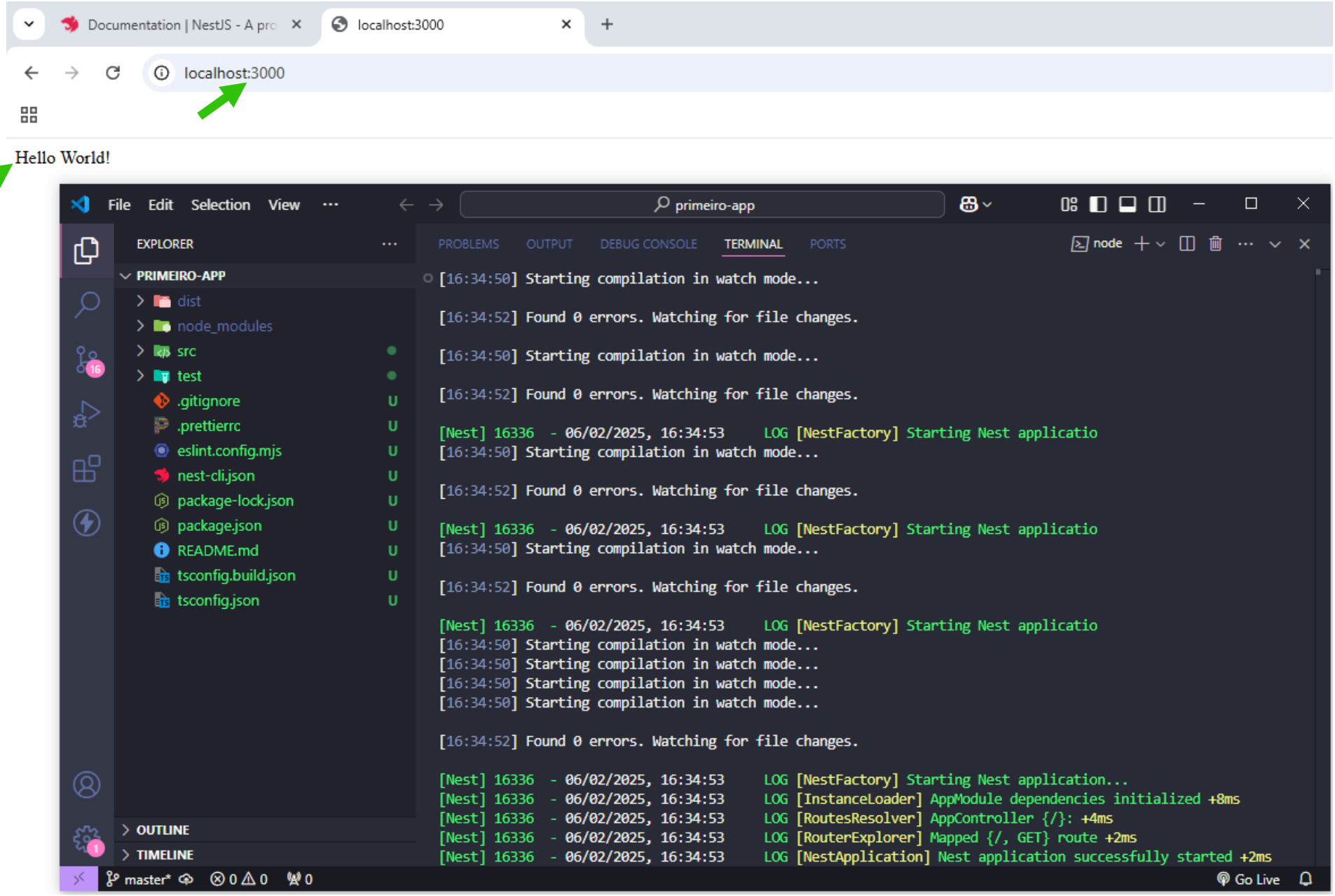
```
C:\Aggio\nestjs>cd primeiro-app

C:\Aggio\nestjs\primeiro-app>code .

C:\Aggio\nestjs\primeiro-app>npm run start:dev
```

ou




Documentation | NestJS - A pro
localhost:3000
localhost:3000
Hello World!
File Edit Selection View
primeiro-app
EXPLORER
PRIMEIRO-APP
dist
node_modules
src
test
.gitignore
.prettierrc
eslint.config.mjs
nest-cli.json
package-lock.json
package.json
README.md
tsconfig.build.json
tsconfig.json
OUTLINE
TIMELINE
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
node
[16:34:50] Starting compilation in watch mode...
[16:34:52] Found 0 errors. Watching for file changes.
[16:34:50] Starting compilation in watch mode...
[16:34:52] Found 0 errors. Watching for file changes.
[Nest] 16336 - 06/02/2025, 16:34:53 LOG [NestFactory] Starting Nest applicatio
[16:34:50] Starting compilation in watch mode...
[16:34:52] Found 0 errors. Watching for file changes.
[Nest] 16336 - 06/02/2025, 16:34:53 LOG [NestFactory] Starting Nest applicatio
[16:34:50] Starting compilation in watch mode...
[16:34:52] Found 0 errors. Watching for file changes.
[Nest] 16336 - 06/02/2025, 16:34:53 LOG [NestFactory] Starting Nest applicatio
[16:34:50] Starting compilation in watch mode...
[16:34:50] Starting compilation in watch mode...
[16:34:50] Starting compilation in watch mode...
[16:34:50] Starting compilation in watch mode...
[16:34:52] Found 0 errors. Watching for file changes.
[Nest] 16336 - 06/02/2025, 16:34:53 LOG [NestFactory] Starting Nest application...
[Nest] 16336 - 06/02/2025, 16:34:53 LOG [InstanceLoader] AppModule dependencies initialized +8ms
[Nest] 16336 - 06/02/2025, 16:34:53 LOG [RoutesResolver] AppController {/}: +4ms
[Nest] 16336 - 06/02/2025, 16:34:53 LOG [RouterExplorer] Mapped {/, GET} route +2ms
[Nest] 16336 - 06/02/2025, 16:34:53 LOG [NestApplication] Nest application successfully started +2ms
master*
Go Live

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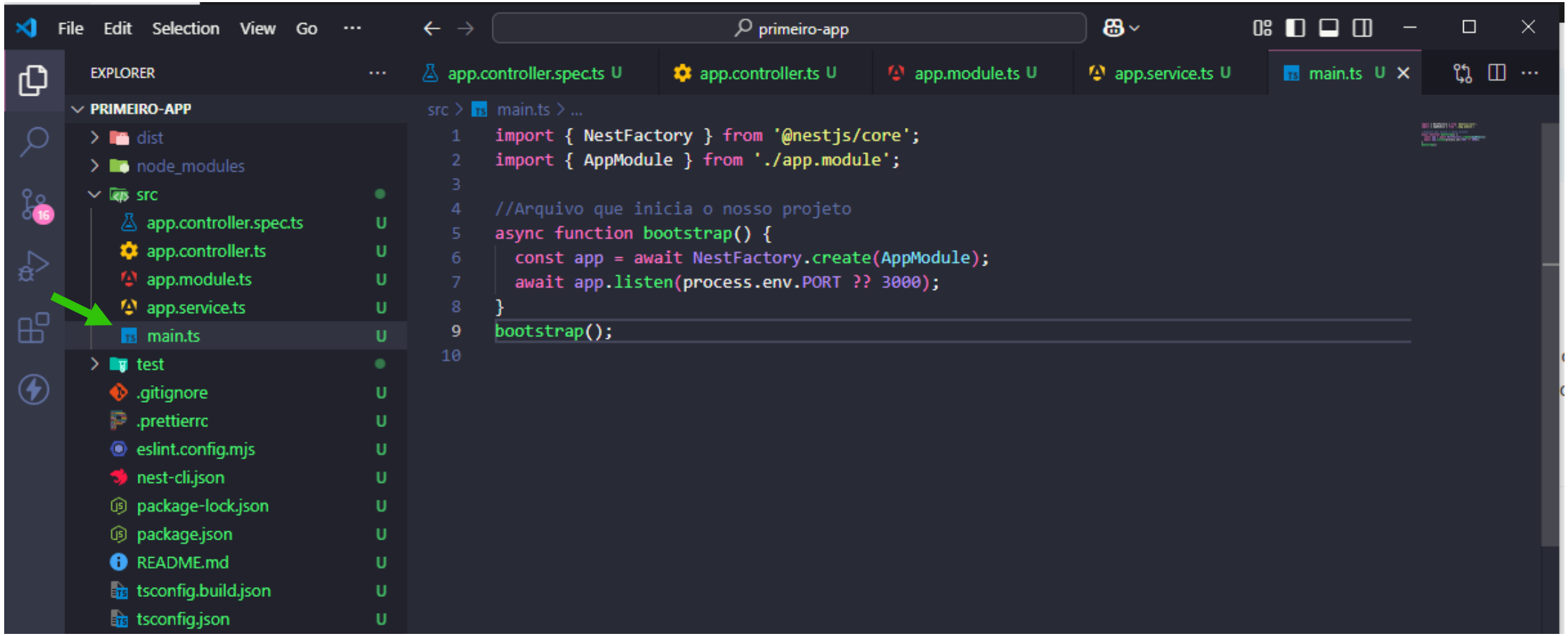
Estrutura do Projeto



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Documentation | NestJS - A pro

localhost:3000/novarota

localhost:3000/novarota

Olá, estou testando essa rota!

File Edit Selection View Go ··· primeiro-app

EXPLORER

PRIMEIRO-APP

- dist
- node_modules
- src
  - app.controller.spec.ts U
  - app.controller.ts U
  - app.module.ts U
  - app.service.ts U
  - main.ts U
- test
- .gitignore U
- .prettierrc U
- eslint.config.mjs U
- nest-cli.json U
- package-lock.json U
- package.json U
- README.md U
- tsconfig.build.json U
- tsconfig.json U

OUTLINE

TIMELINE

app.controller.ts U | app.module.ts U | app.service.ts U | main.ts U

src > app.controller.ts > AppController > getNewRoute

```
5   export class AppController {
6     constructor(private readonly appService: AppService) {}
7
8     @Get()
9     getHello(): string {
10      return this.appService.getHello();
11    }
12
13    @Get("/novarota")
14    getNewRoute(){
15      return "Olá, estou testando essa rota!"
16    }
17
18
19  }
20
```

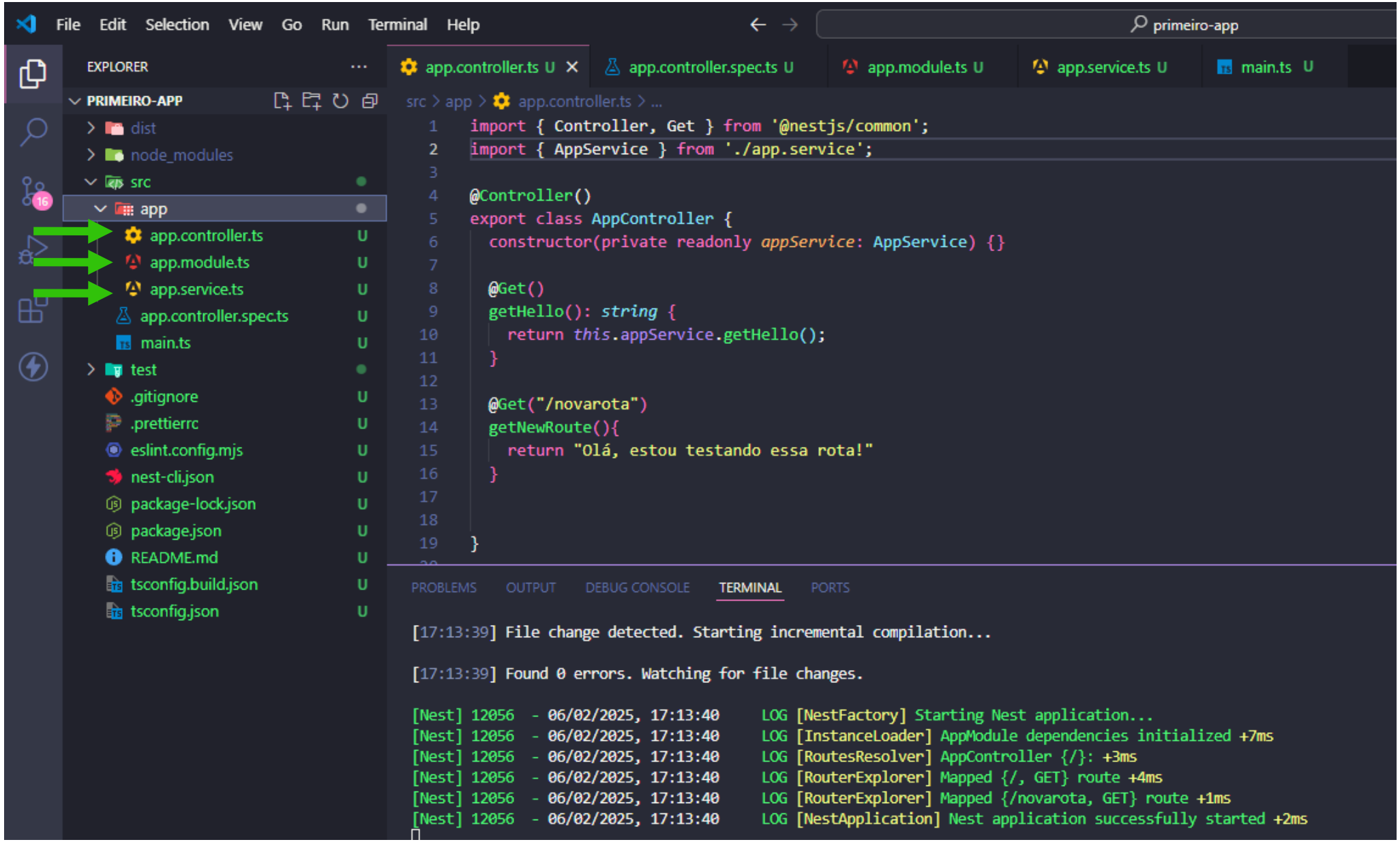
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS node

```
[17:07:10] File change detected. Starting incremental compilation...

[17:07:11] Found 0 errors. Watching for file changes.

[Nest] 8020  - 06/02/2025, 17:07:11     LOG [NestFactory] Starting Nest application...
[Nest] 8020  - 06/02/2025, 17:07:11     LOG [InstanceLoader] AppModule dependencies initialized +8ms
[Nest] 8020  - 06/02/2025, 17:07:11     LOG [RoutesResolver] AppController {/}: +3ms
[Nest] 8020  - 06/02/2025, 17:07:11     LOG [RouterExplorer] Mapped {/, GET} route +3ms
[Nest] 8020  - 06/02/2025, 17:07:11     LOG [RouterExplorer] Mapped {/novarota, GET} route +0ms
[Nest] 8020  - 06/02/2025, 17:07:11     LOG [NestApplication] Nest application successfully started +2ms
```

master* 0 0 0 Ln 16, Col 4 Spaces: 2 UTF-8 CRLF {} TypeScript Go Live


File Edit Selection View Go Run Terminal Help
primeiro-app
EXPLORER
PRIMEIRO-APP
dist
node_modules
src
app
app.controller.ts U
app.module.ts U
app.service.ts U
app.controller.spec.ts U
main.ts U
test
.gitignore U
.prettierrc U
eslint.config.mjs U
nest-cli.json U
package-lock.json U
package.json U
README.md U
tsconfig.build.json U
tsconfig.json U
app.controller.ts U
app.controller.spec.ts U
app.module.ts U
app.service.ts U
main.ts U
src > app > app.controller.ts > ...
1 import { Controller, Get } from '@nestjs/common';
2 import { AppService } from './app.service';
3
4 @Controller()
5 export class AppController {
6 constructor(private readonly appService: AppService) {}
7
8 @Get()
9 getHello(): string {
10 return this.appService.getHello();
11 }
12
13 @Get("/novarota")
14 getNewRoute(){
15 return "Olá, estou testando essa rota!"
16 }
17
18
19 }
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
[17:13:39] File change detected. Starting incremental compilation...
[17:13:39] Found 0 errors. Watching for file changes.
[Nest] 12056 - 06/02/2025, 17:13:40 LOG [NestFactory] Starting Nest application...
[Nest] 12056 - 06/02/2025, 17:13:40 LOG [InstanceLoader] AppModule dependencies initialized +7ms
[Nest] 12056 - 06/02/2025, 17:13:40 LOG [RoutesResolver] AppController {/}: +3ms
[Nest] 12056 - 06/02/2025, 17:13:40 LOG [RouterExplorer] Mapped {/, GET} route +4ms
[Nest] 12056 - 06/02/2025, 17:13:40 LOG [RouterExplorer] Mapped {/novarota, GET} route +1ms
[Nest] 12056 - 06/02/2025, 17:13:40 LOG [NestApplication] Nest application successfully started +2ms

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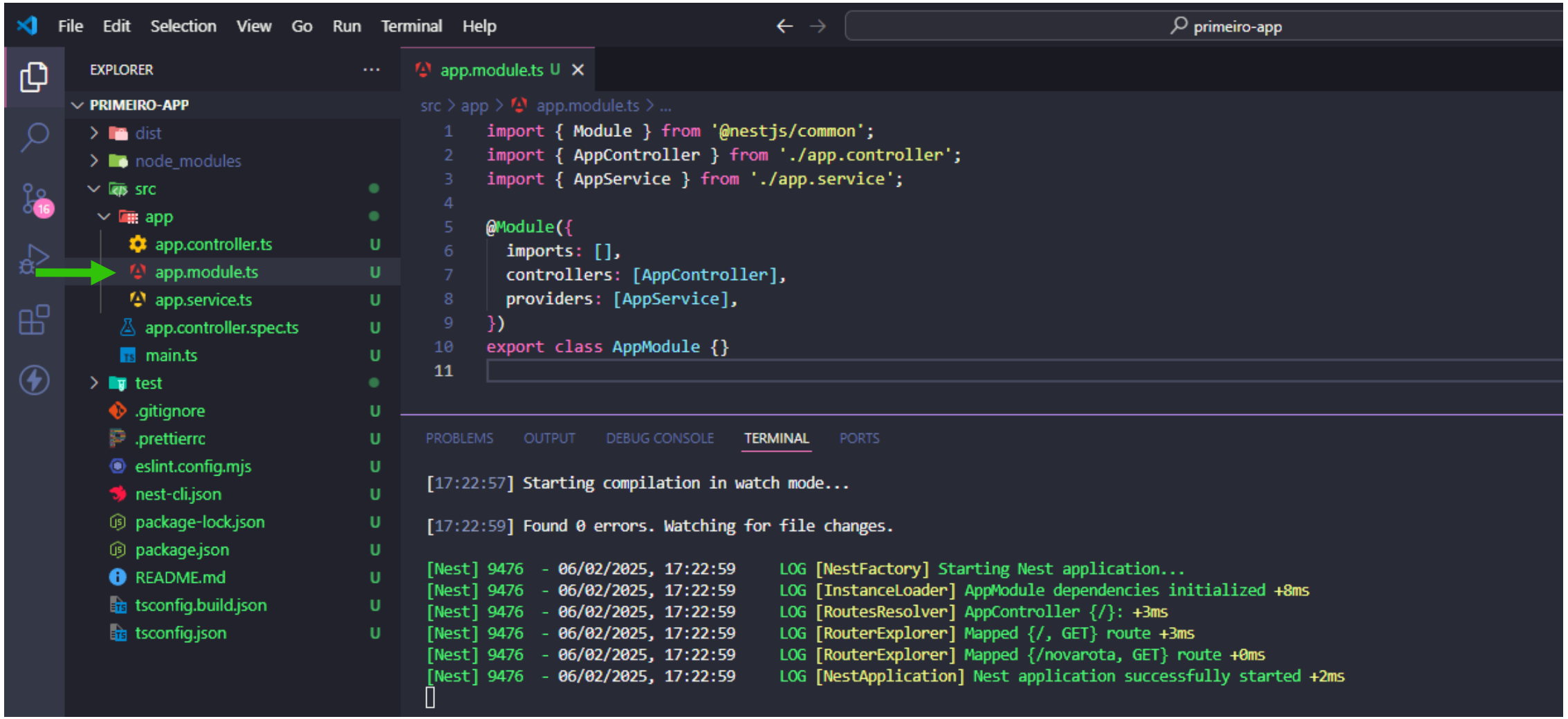
Módulo Principal do Projeto



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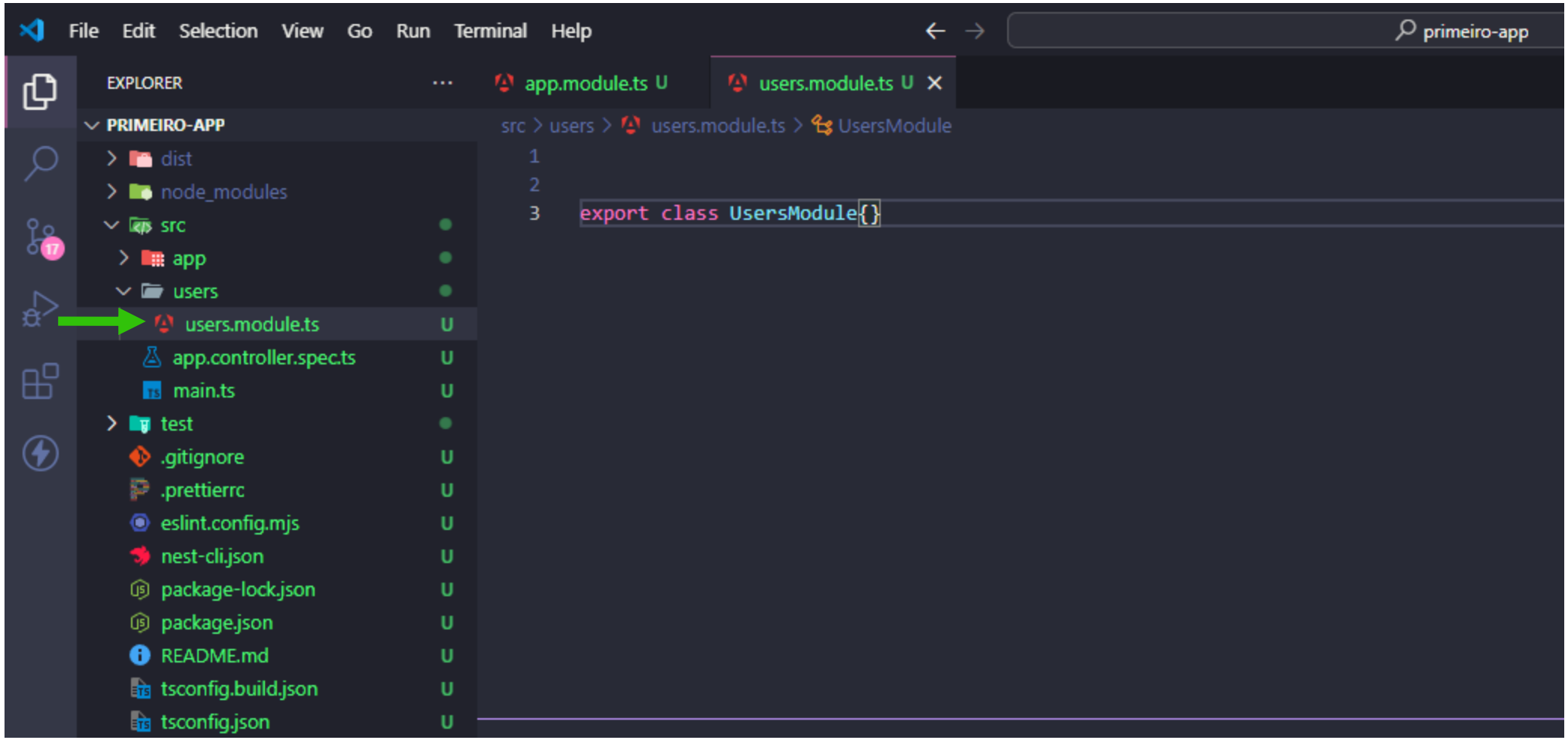
Criando um Módulo



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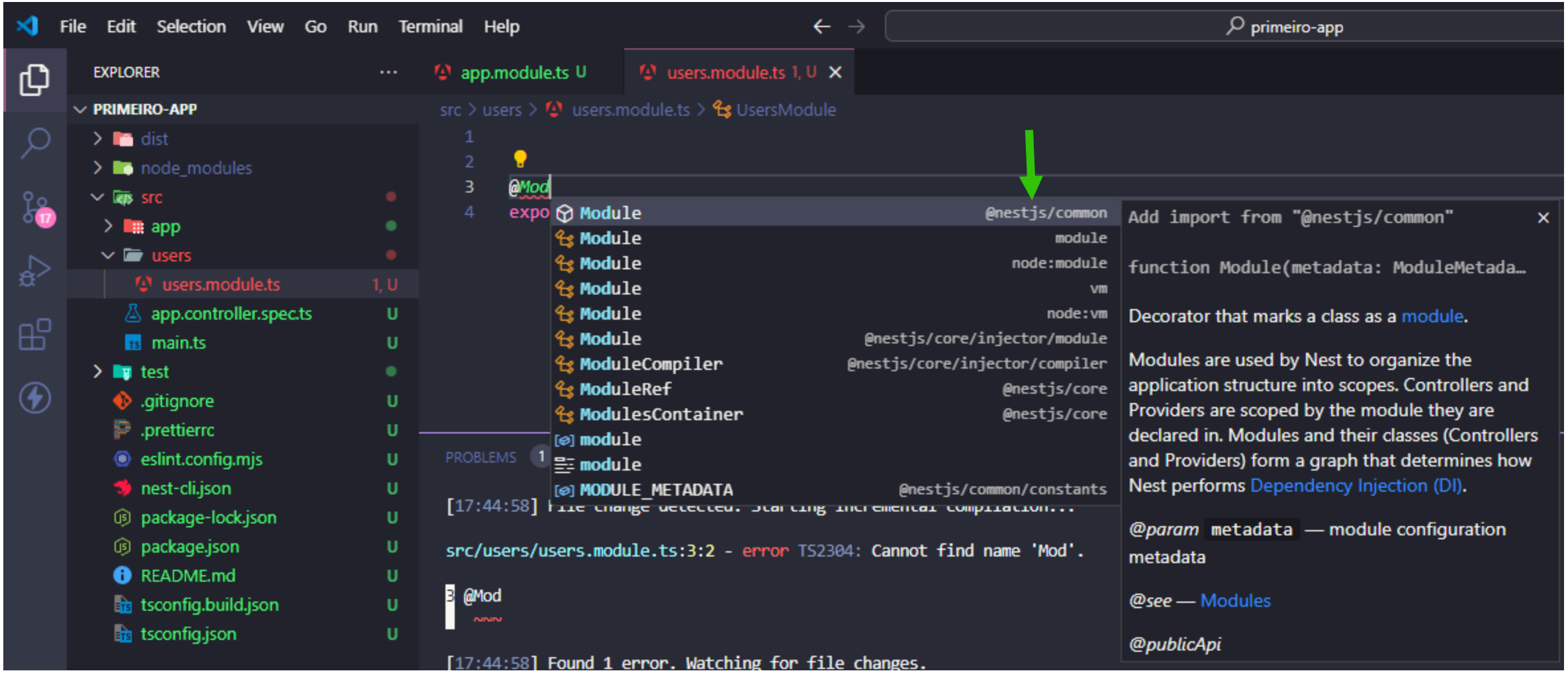
Criando um Módulo



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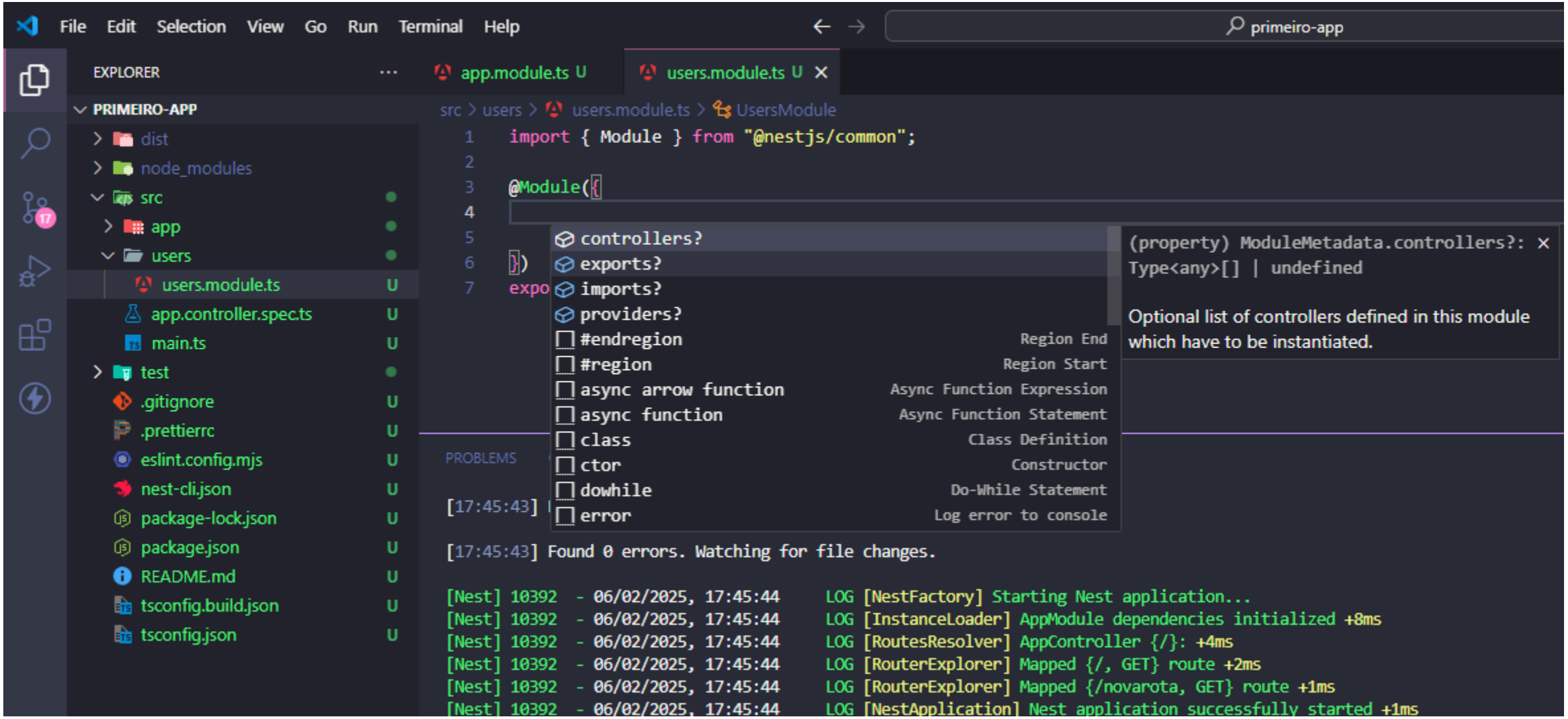
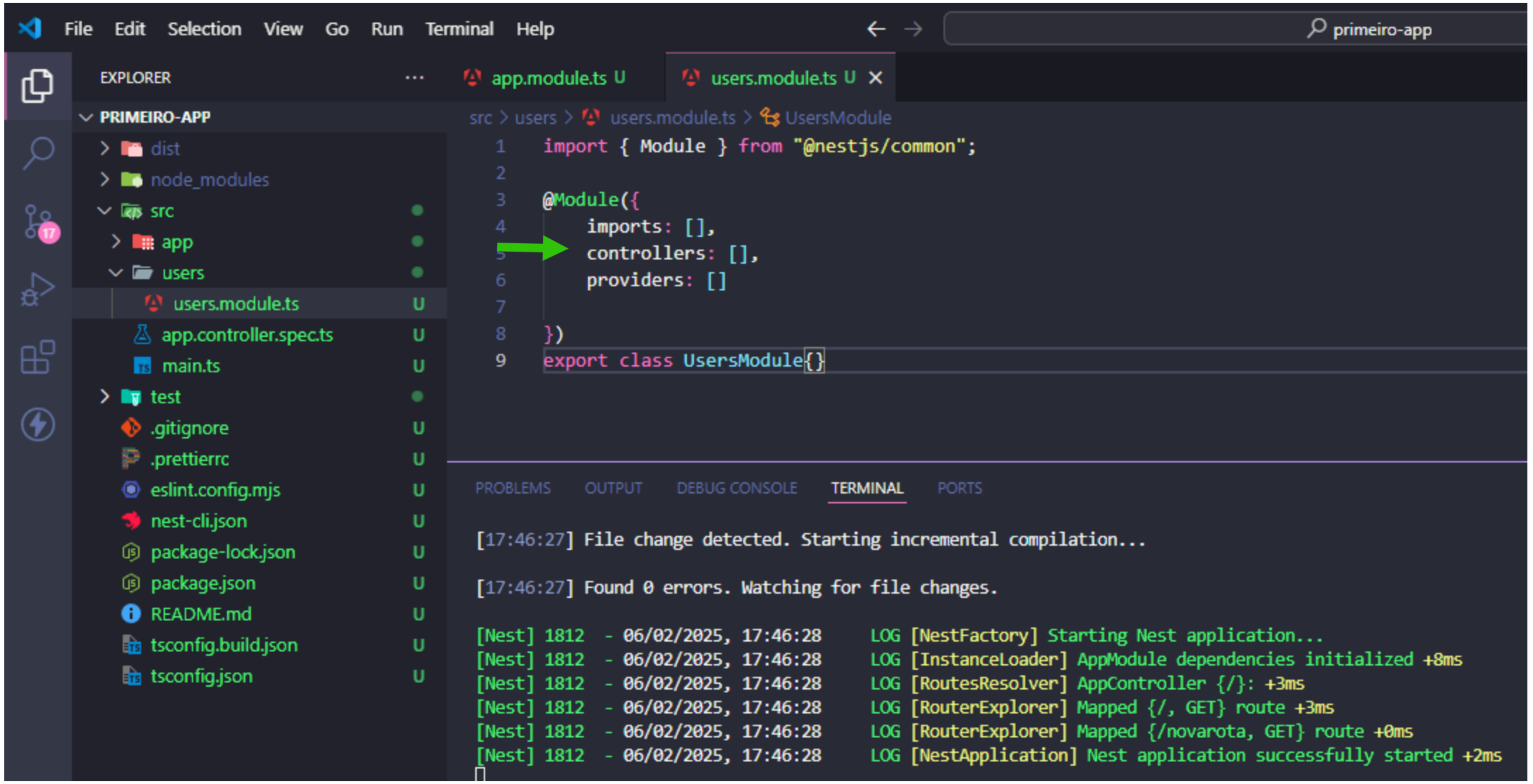
Criando um Módulo



Criando um Módulo



Criando um Módulo

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

[17:47:53] Starting compilation in watch mode...

[17:47:55] Found 0 errors. Watching for file changes.

[Nest] 13672  - 06/02/2025, 17:47:56     LOG [NestFactory] Starting Nest application...
[Nest] 13672  - 06/02/2025, 17:47:56     LOG [InstanceLoader] AppModule dependencies initialized +7ms
[Nest] 13672  - 06/02/2025, 17:47:56     LOG [RoutesResolver] AppController {/}: +4ms
[Nest] 13672  - 06/02/2025, 17:47:56     LOG [RouterExplorer] Mapped {/, GET} route +2ms
[Nest] 13672  - 06/02/2025, 17:47:56     LOG [RouterExplorer] Mapped {/novarota, GET} route +2ms
[Nest] 13672  - 06/02/2025, 17:47:56     LOG [NestApplication] Nest application successfully started +2ms
```

Precisa importar o módulo users

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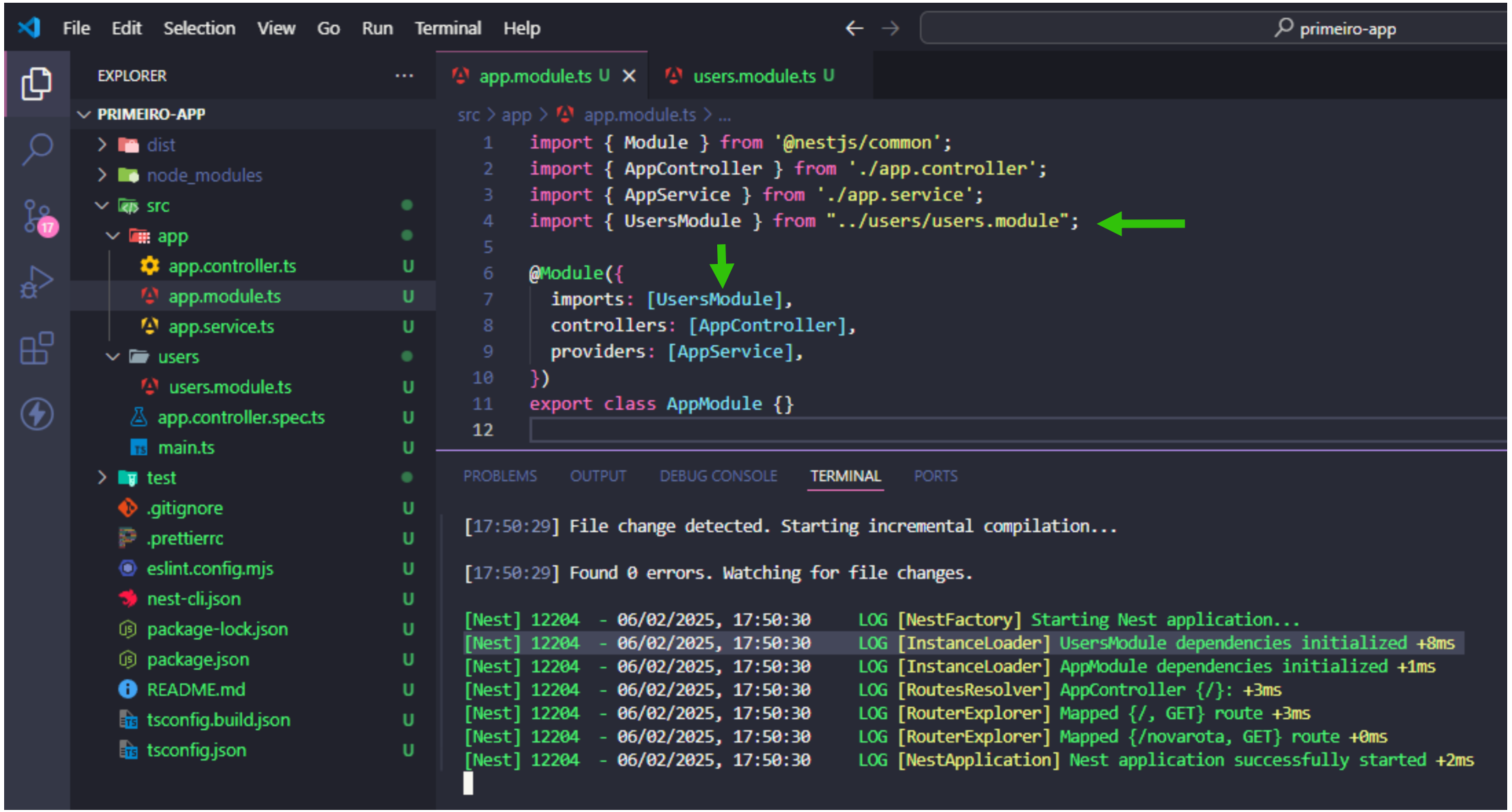
Criando um Módulo



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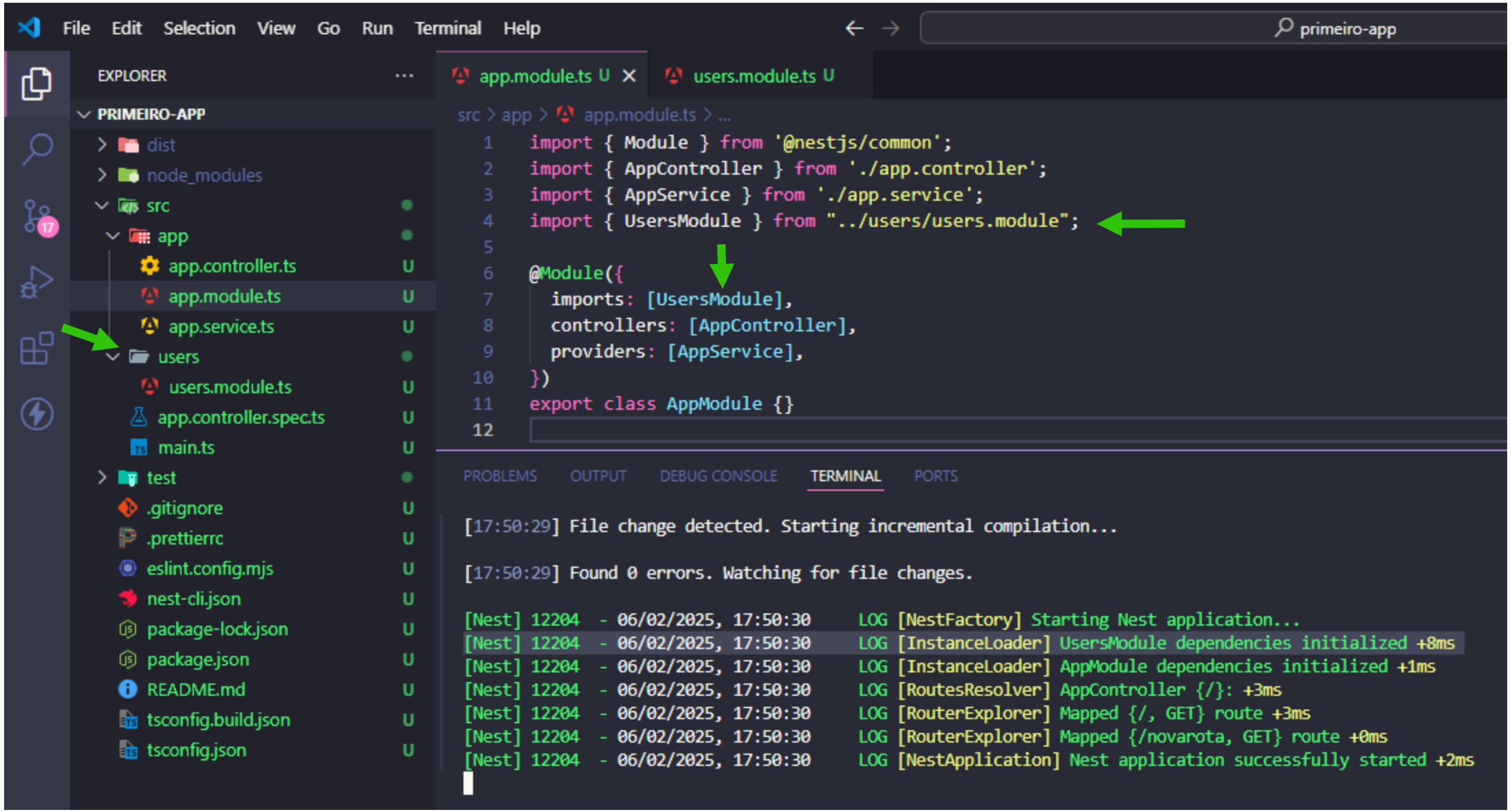
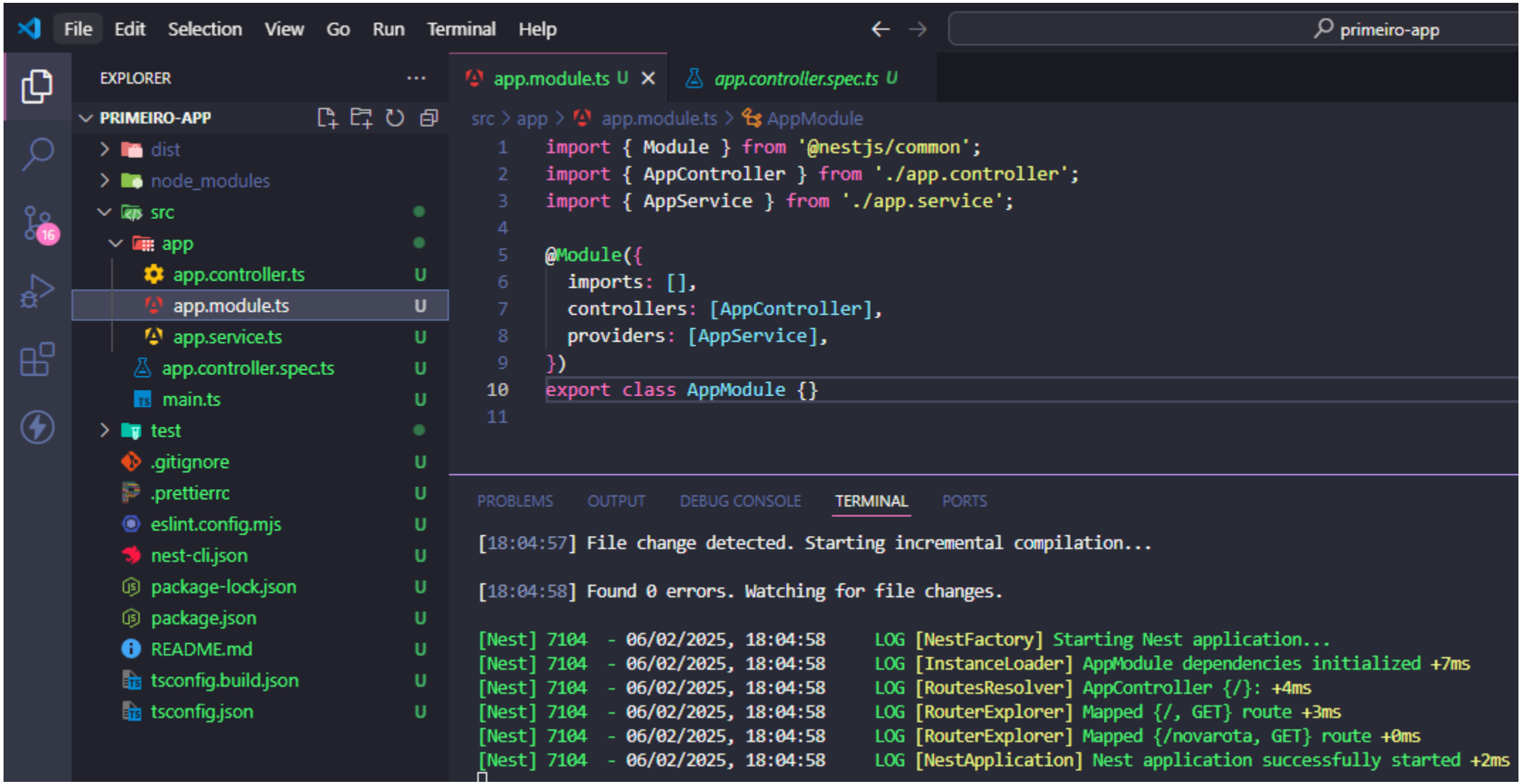
Excluir as setas verdes



Criando um Módulo



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Criando um Módulo com CLI

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File Edit Selection View Go Run Terminal Help

primeiro-app

EXPLORER

PRIMEIRO-APP

- dist
- node_modules
- src
  - app
    - app.controller.ts U
    - app.module.ts U
    - app.service.ts U
    - app.controller.spec.ts U
    - main.ts U
  - test
- .gitignore U
- .prettierrc U
- eslint.config.mjs U
- nest-cli.json U
- package-lock.json U
- package.json
- README.md U
- tsconfig.build.json U
- tsconfig.json U

src > app > app.module.ts > AppModule

```
1  import { Module } from '@nestjs/common';
2  import { AppController } from './app.controller';
3  import { AppService } from './app.service';
4
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Aggio\nestjs\primeiro-app> nest --help
Usage: nest <command> [options]

Options:
  -v, --version                                   Output the current version.
  -h, --help                                      Output usage information.

Commands:
  new|n [options] [name]                          Generate Nest application.
  build [options] [apps...]                       Build Nest application.
  start [options] [app]                           Run Nest application.
  info|i                                          Display Nest project details.
  add [options] <library>                         Adds support for an external library to your project.
  generate|g [options] <schematic> [name] [path]  Generate a Nest element.
    Schematics available on @nestjs/schematics collection:
```

name	alias	description
application	application	Generate a new application workspace
class	cl	Generate a new class
configuration	config	Generate a CLI configuration file
controller	co	Generate a controller declaration
decorator	d	Generate a custom decorator
filter	f	Generate a filter declaration
gateway	ga	Generate a gateway declaration
guard	gu	Generate a guard declaration
interceptor	itc	Generate an interceptor declaration
interface	itf	Generate an interface
library	lib	Generate a new library within a monorepo
middleware	mi	Generate a middleware declaration
module	mo	Generate a module declaration
pipe	pi	Generate a pipe declaration
provider	pr	Generate a provider declaration
resolver	r	Generate a GraphQL resolver declaration
resource	res	Generate a new CRUD resource
service	s	Generate a service declaration
sub-app	app	Generate a new application within a monorepo

```
PS C:\Aggio\nestjs\primeiro-app> nest g module tasks
```

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Criando um Módulo com CLI

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File Edit Selection View Go Run Terminal Help

primeiro-app

EXPLORER

PRIMEIRO-APP

- dist
- node_modules
- src
  - app
    - app.controller.ts U
    - app.module.ts U
    - app.service.ts U
  - tasks
    - tasks.module.ts U
    - app.controller.spec.ts U
    - main.ts U
  - test
- .gitignore U
- .prettierrc U
- eslint.config.mjs U
- nest-cli.json U
- package-lock.json U
- package.json U
- README.md U
- tsconfig.build.json U
- tsconfig.json U

src > tasks > tasks.module.ts > ...

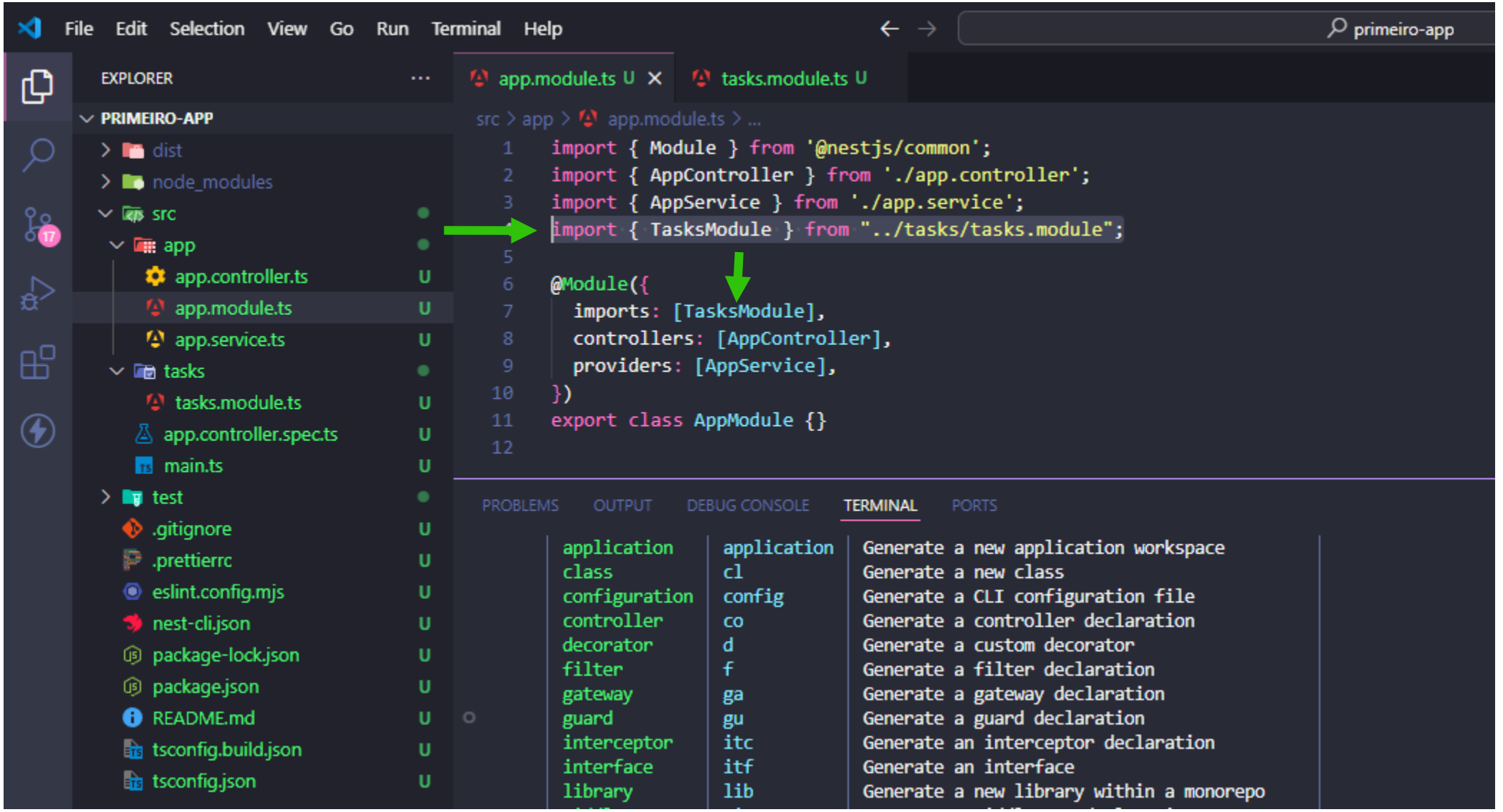
```ts
import { Module } from '@nestjs/common';

@Module({})
export class TasksModule {}

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
new|n [options] [name]                    Generate Nest application.
build [options] [apps...]                 Build Nest application.
start [options] [app]                     Run Nest application.
info|i                                    Display Nest project details.
add [options] <library>                   Adds support for an external library to your project.
generate|g [options] <schematic> [name] [path]  Generate a Nest element.
  Schematics available on @nestjs/schematics collection:
```

name	alias	description
application	application	Generate a new application workspace
class	cl	Generate a new class
configuration	config	Generate a CLI configuration file
controller	co	Generate a controller declaration
decorator	d	Generate a custom decorator
filter	f	Generate a filter declaration
gateway	ga	Generate a gateway declaration
guard	gu	Generate a guard declaration
interceptor	itc	Generate an interceptor declaration
interface	itf	Generate an interface
library	lib	Generate a new library within a monorepo
middleware	mi	Generate a middleware declaration
module	mo	Generate a module declaration
pipe	pi	Generate a pipe declaration
provider	pr	Generate a provider declaration
resolver	r	Generate a GraphQL resolver declaration
resource	res	Generate a new CRUD resource
service	s	Generate a service declaration
sub-app	app	Generate a new application within a monorepo

```
PS C:\Aggio\nestjs\primeiro-app> nest g module tasks
CREATE src/tasks/tasks.module.ts (86 bytes)
PS C:\Aggio\nestjs\primeiro-app>
```


File Edit Selection View Go Run Terminal Help
primeiro-app
EXPLORER
PRIMEIRO-APP
dist
node_modules
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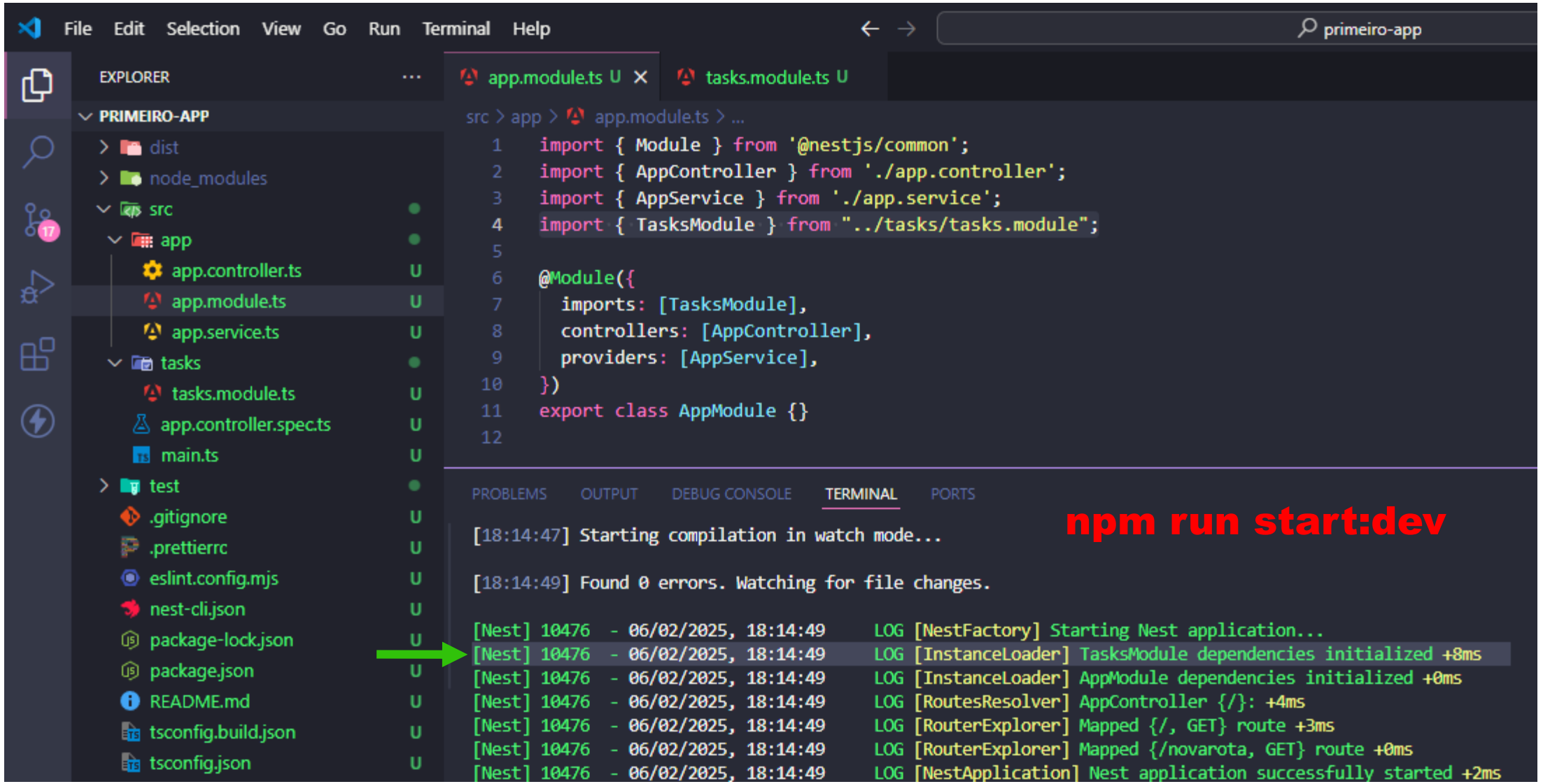
tsconfig.build.json U
tsconfig.json U
app.module.ts U
tasks.module.ts U
src > app > app.module.ts > ...
1 import { Module } from '@nestjs/common';
2 import { AppController } from './app.controller';
3 import { AppService } from './app.service';
4 import { TasksModule } from "../tasks/tasks.module";
5
6 @Module({
7 imports: [TasksModule],
8 controllers: [AppController],
9 providers: [AppService],
10 })
11 export class AppModule {}
12
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
application application Generate a new application workspace
class cl Generate a new class
configuration config Generate a CLI configuration file
controller co Generate a controller declaration
decorator d Generate a custom decorator
filter f Generate a filter declaration
gateway ga Generate a gateway declaration
guard gu Generate a guard declaration
interceptor itc Generate an interceptor declaration
interface itf Generate an interface
library lib Generate a new library within a monorepo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primeiro-app
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src > app > app.module.ts > ...
1 import { Module } from '@nestjs/common';
2 import { AppController } from './app.controller';
3 import { AppService } from './app.service';
4 import { TasksModule } from "../tasks/tasks.module";
5
6 @Module({
7 imports: [TasksModule],
8 controllers: [AppController],
9 providers: [AppService],
10 })
11 export class AppModule {}
12
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
npm run start:dev
[18:14:47] Starting compilation in watch mode...
[18:14:49] Found 0 errors. Watching for file changes.
[Nest] 10476 - 06/02/2025, 18:14:49 LOG [NestFactory] Starting Nest application...
[Nest] 10476 - 06/02/2025, 18:14:49 LOG [InstanceLoader] TasksModule dependencies initialized +8ms
[Nest] 10476 - 06/02/2025, 18:14:49 LOG [InstanceLoader] AppModule dependencies initialized +0ms
[Nest] 10476 - 06/02/2025, 18:14:49 LOG [RoutesResolver] AppController {/}: +4ms
[Nest] 10476 - 06/02/2025, 18:14:49 LOG [RouterExplorer] Mapped {/, GET} route +3ms
[Nest] 10476 - 06/02/2025, 18:14:49 LOG [RouterExplorer] Mapped {/novarota, GET} route +0ms
[Nest] 10476 - 06/02/2025, 18:14:49 LOG [NestApplication] Nest application successfully started +2ms

File Edit Selection View Go ··· primeiro-app

EXPLORER

PRIMEIRO-APP

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- tsconfig.json U

OUTLINE

TIMELINE

app.module.ts U | main.ts U | tasks.module.ts U

src > main.ts > ...

```ts
import { NestFactory } from '@nestjs/core';
import { AppModule } from './app/app.module';

/*
- app.module.ts : É o módulo principal do aplicativo
- app.controller.ts : Define as rotas e lida com as requisições
- app.service.ts : Contém a lógico do negócio, separado do controlador.
*/

//Arquivo que inicia o nosso projeto
async function bootstrap() {
  const app = await NestFactory.create(AppModule);
  await app.listen(process.env.PORT ?? 3000);
}
bootstrap();
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

node

```
[18:14:47] Starting compilation in watch mode...

[18:14:47] Starting compilation in watch mode...
[18:14:47] Starting compilation in watch mode...
[18:14:47] Starting compilation in watch mode...
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[18:14:47] Starting compilation in watch mode...
[18:14:47] Starting compilation in watch mode...
[18:14:47] Starting compilation in watch mode...
[18:14:47] Starting compilation in watch mode...
[18:19:38] File change detected. Starting incremental compilation...
```

master* 0 0 0 Ln 3, Col 1 (203 selected) Spaces: 2 UTF-8 CRLF {} TypeScript Go Live

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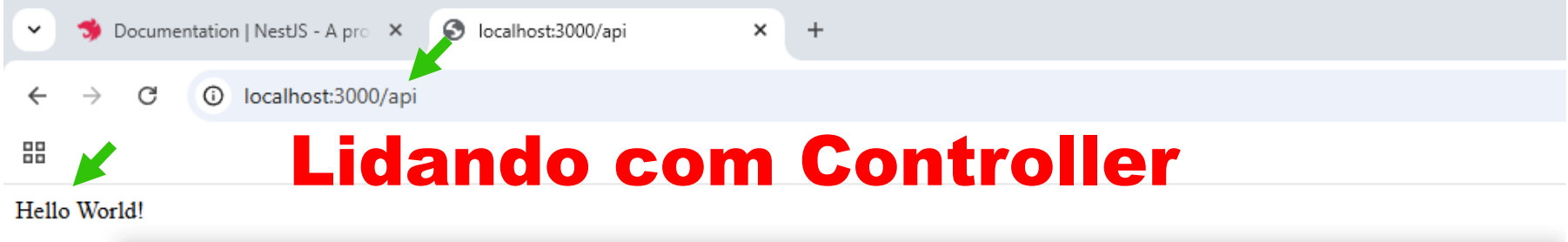
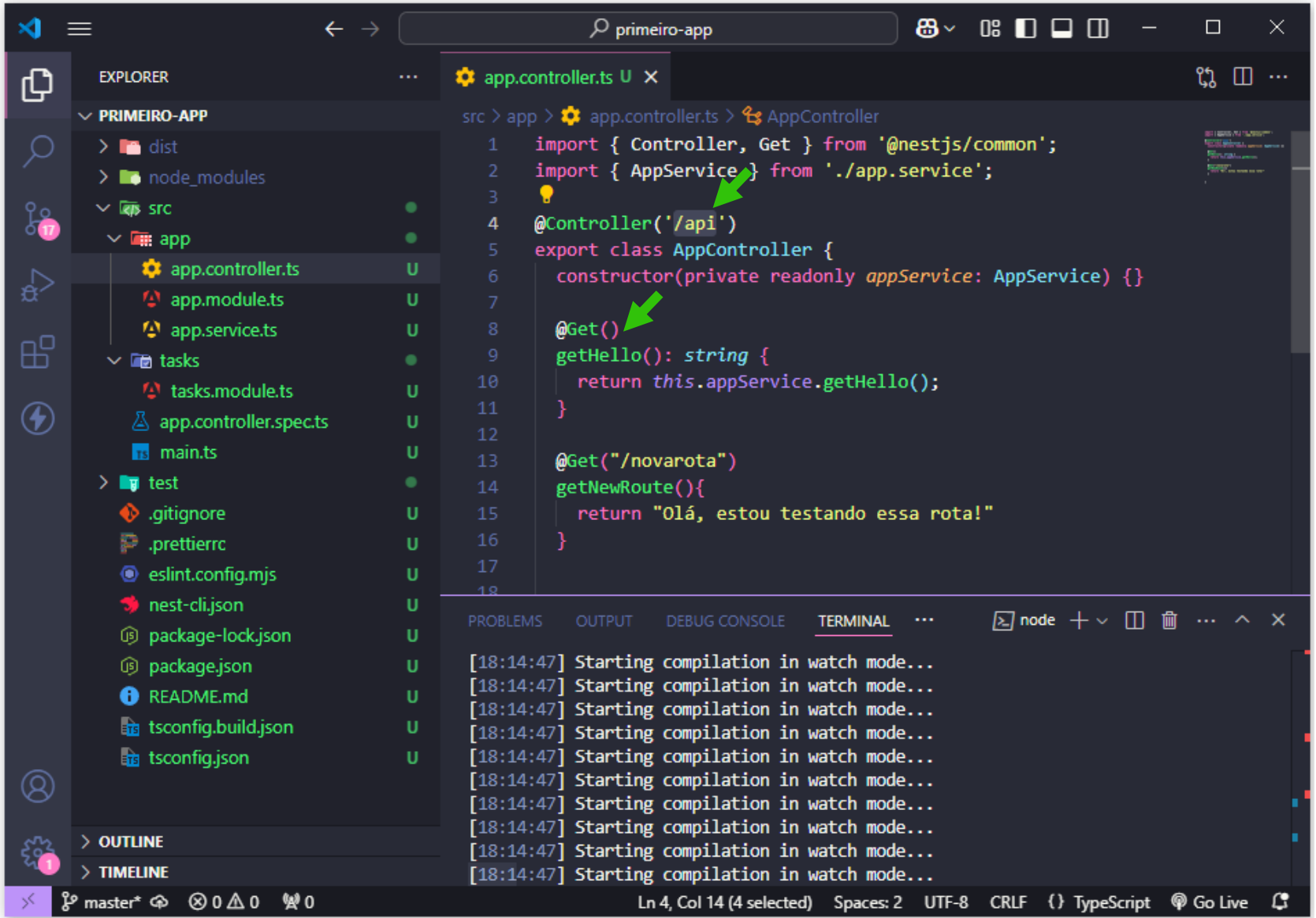
Lidando com Controller





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Lidando com Controller

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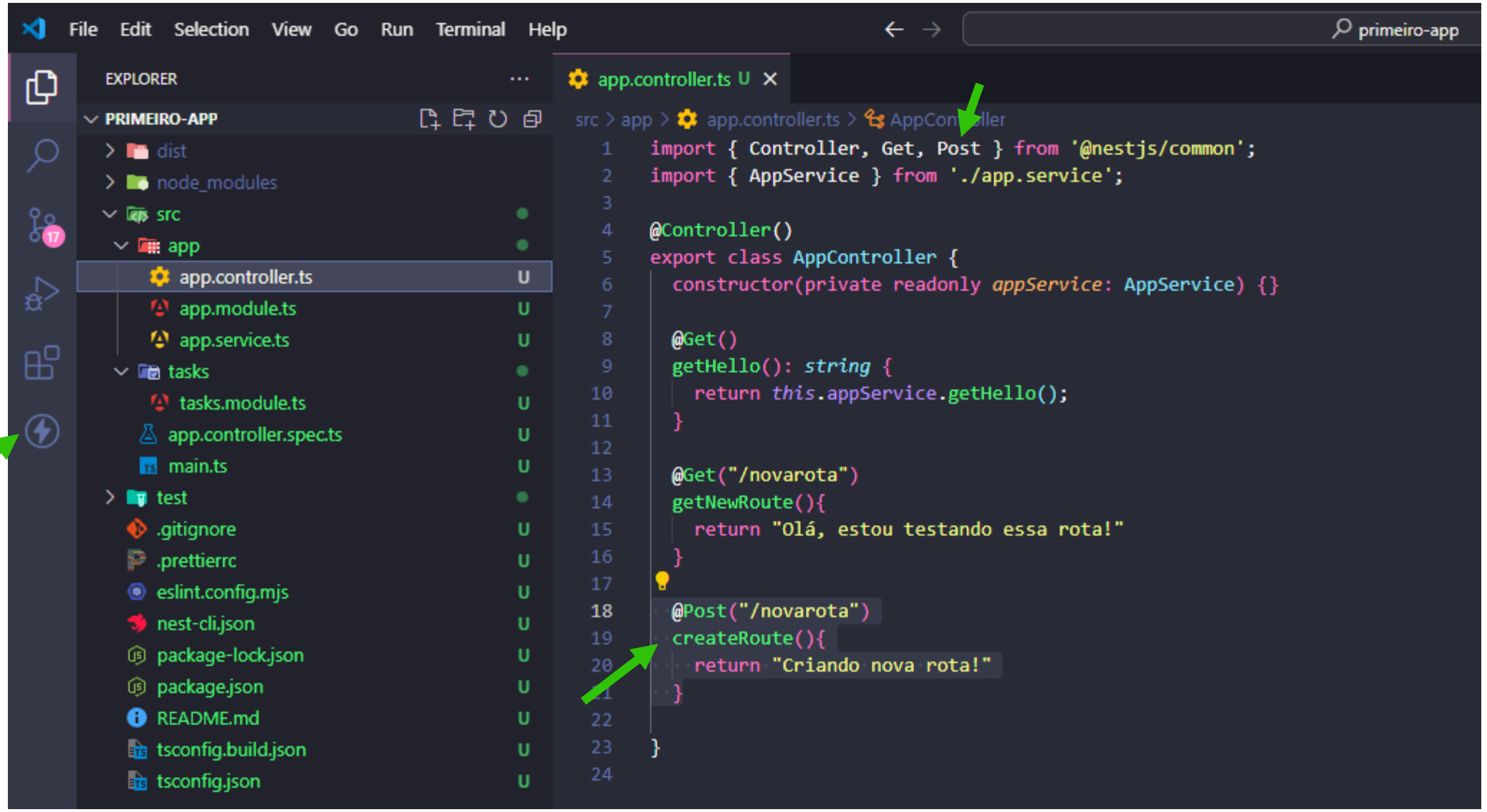

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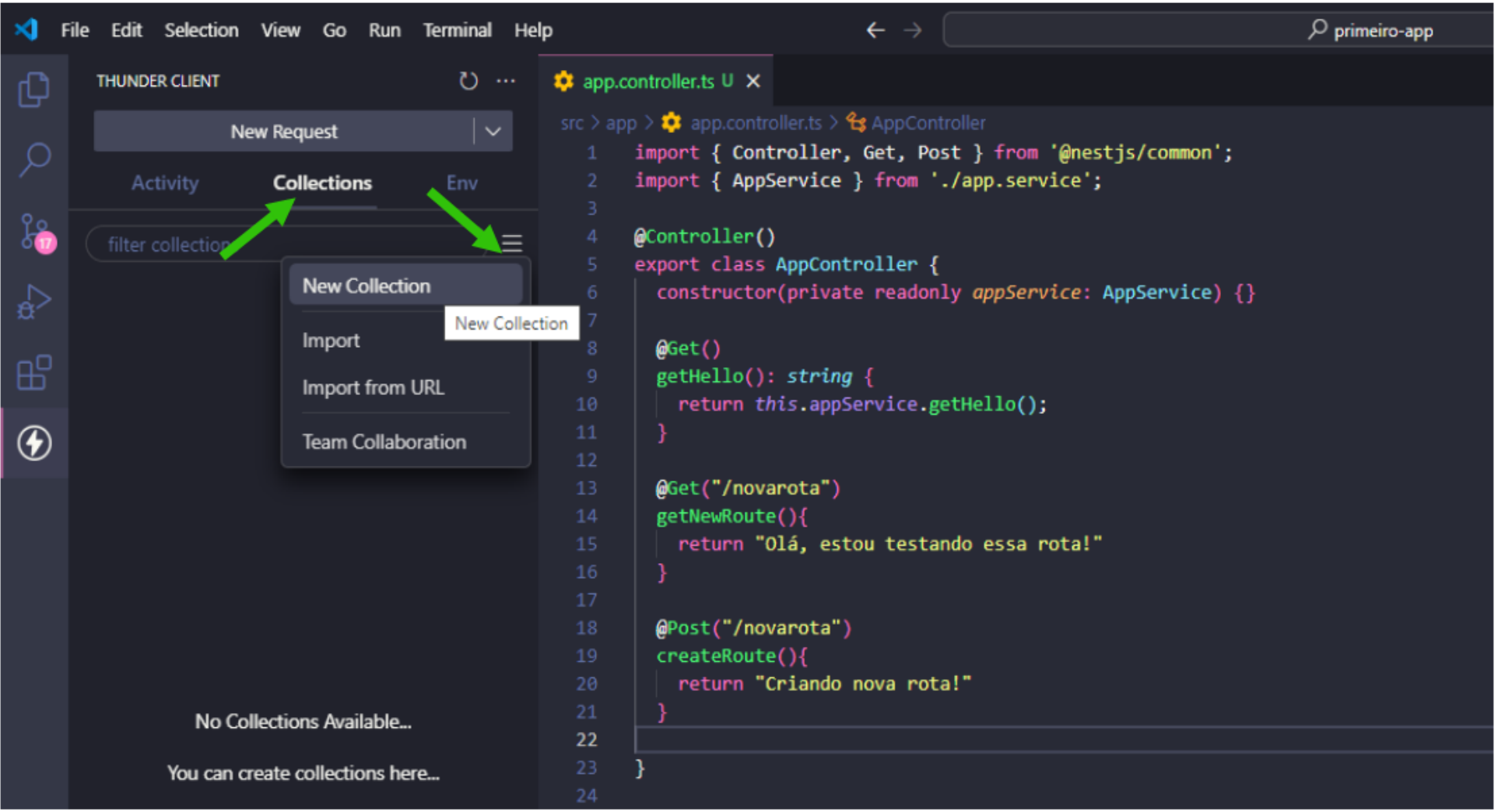
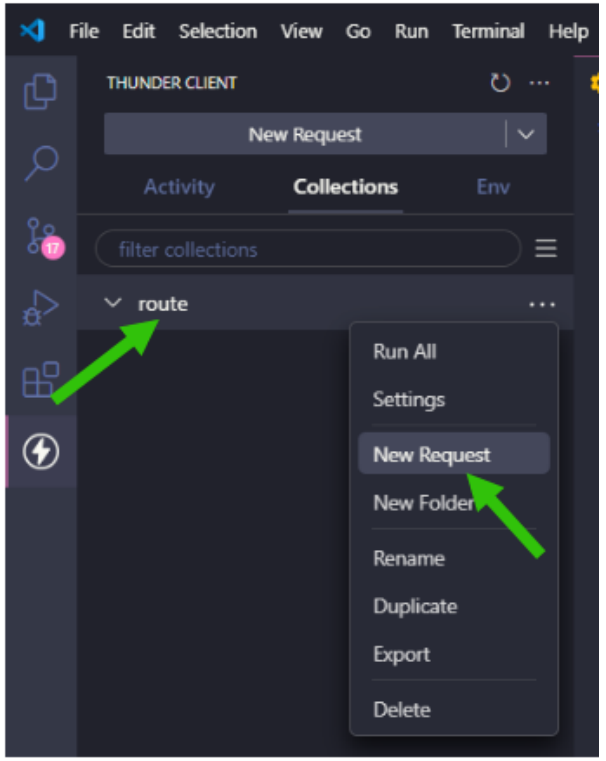
Lidando com Controller





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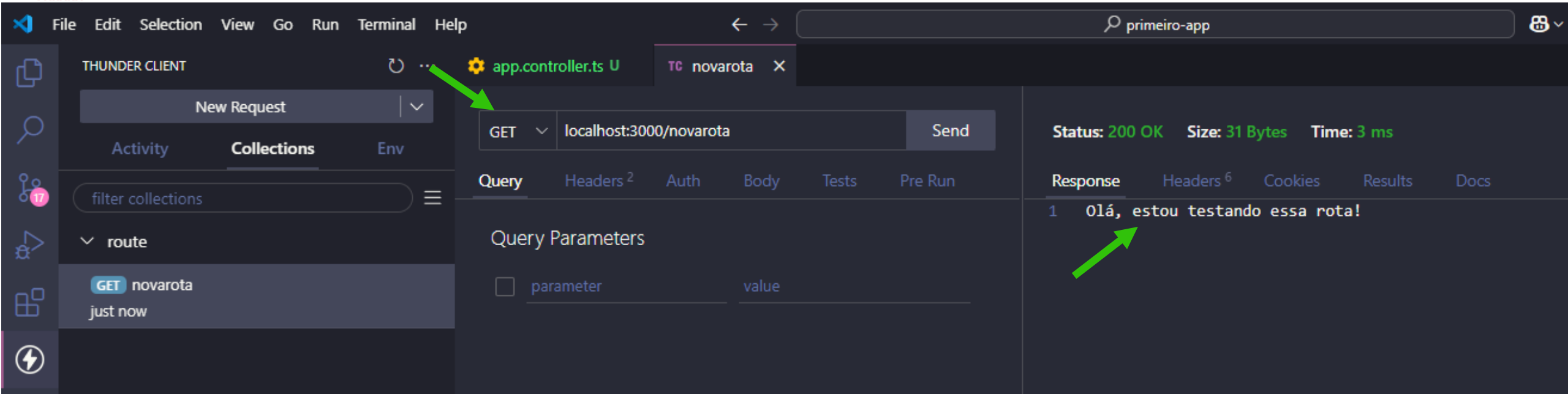
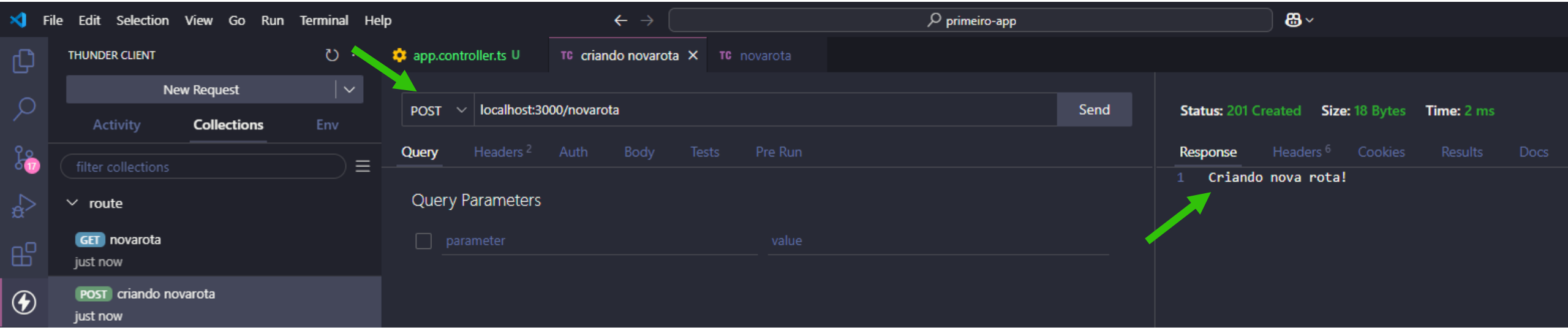
Lidando com Controller





Gerando Controller

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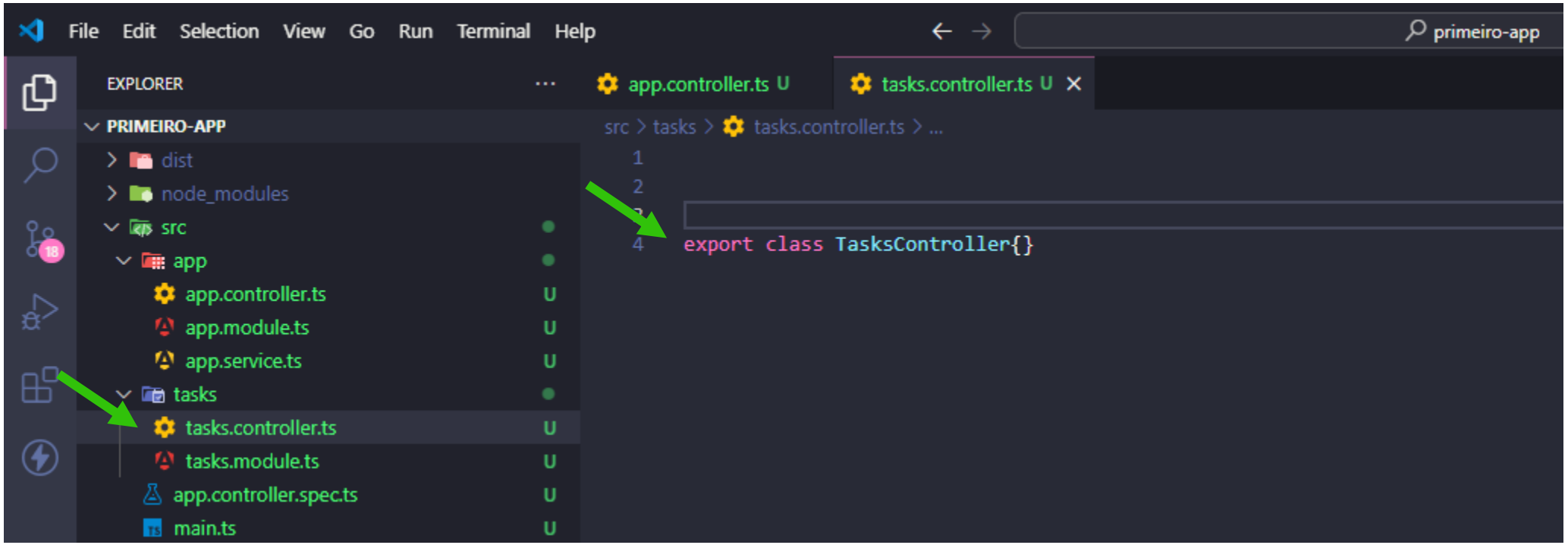

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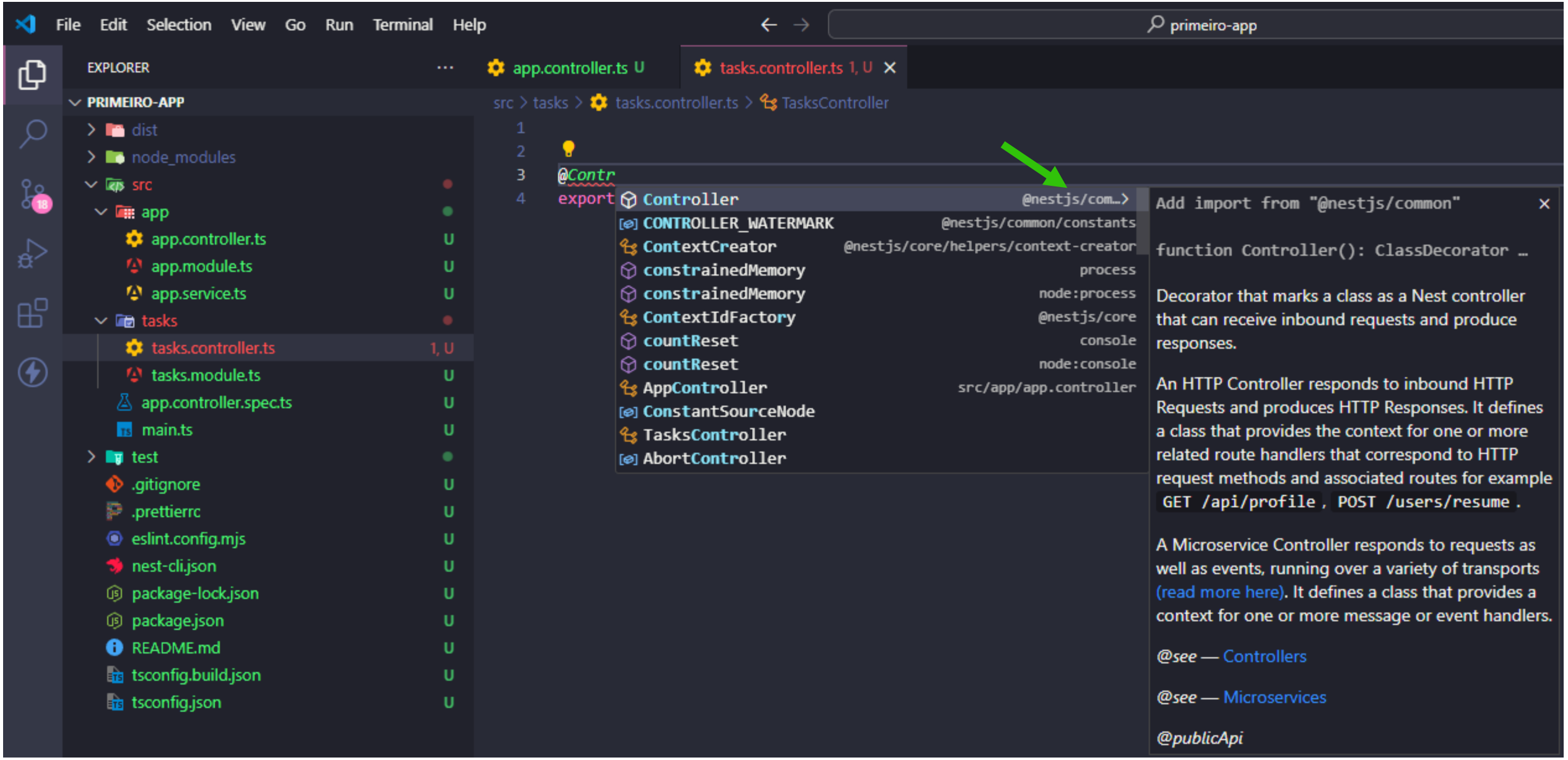
Gerando Controller



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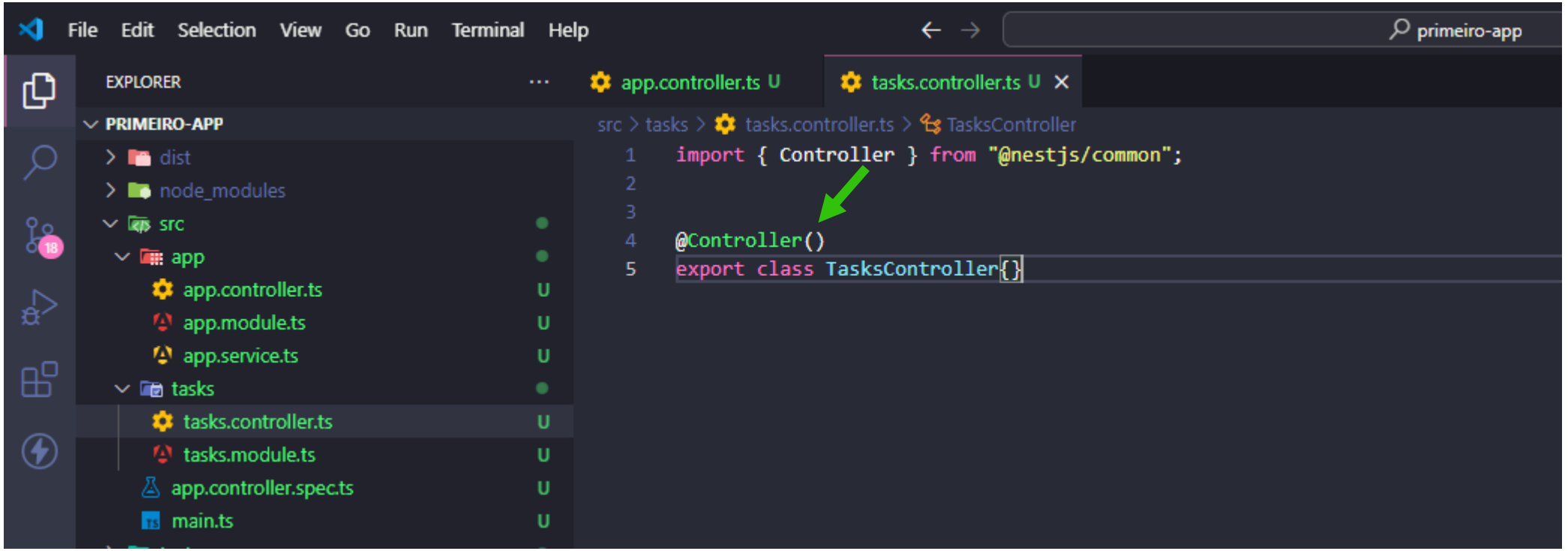

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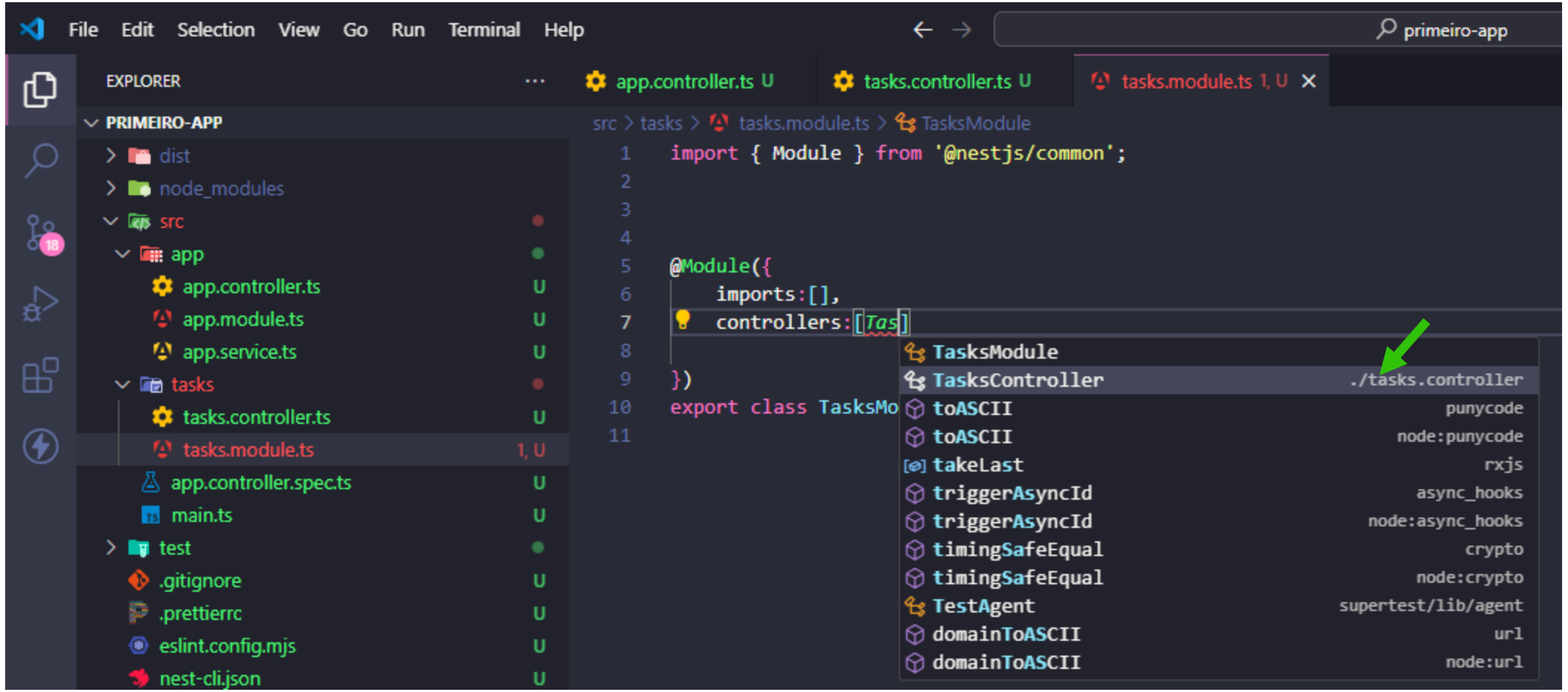

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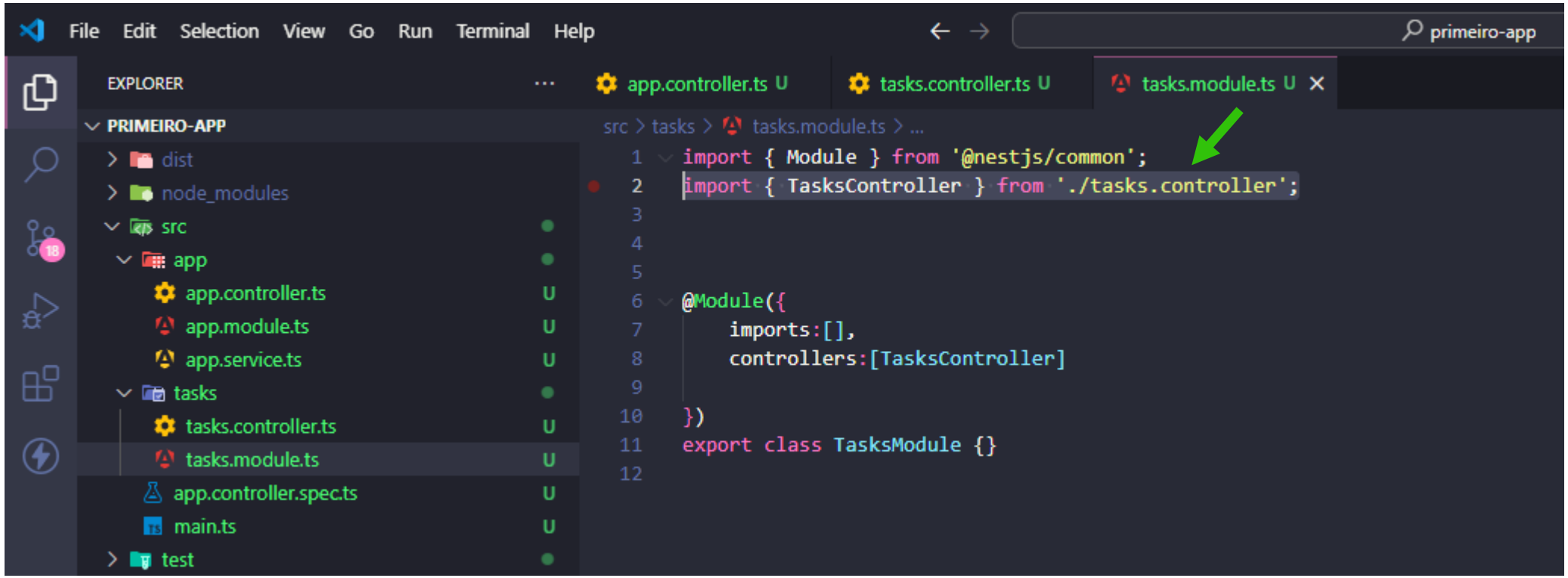
Gerando Controller



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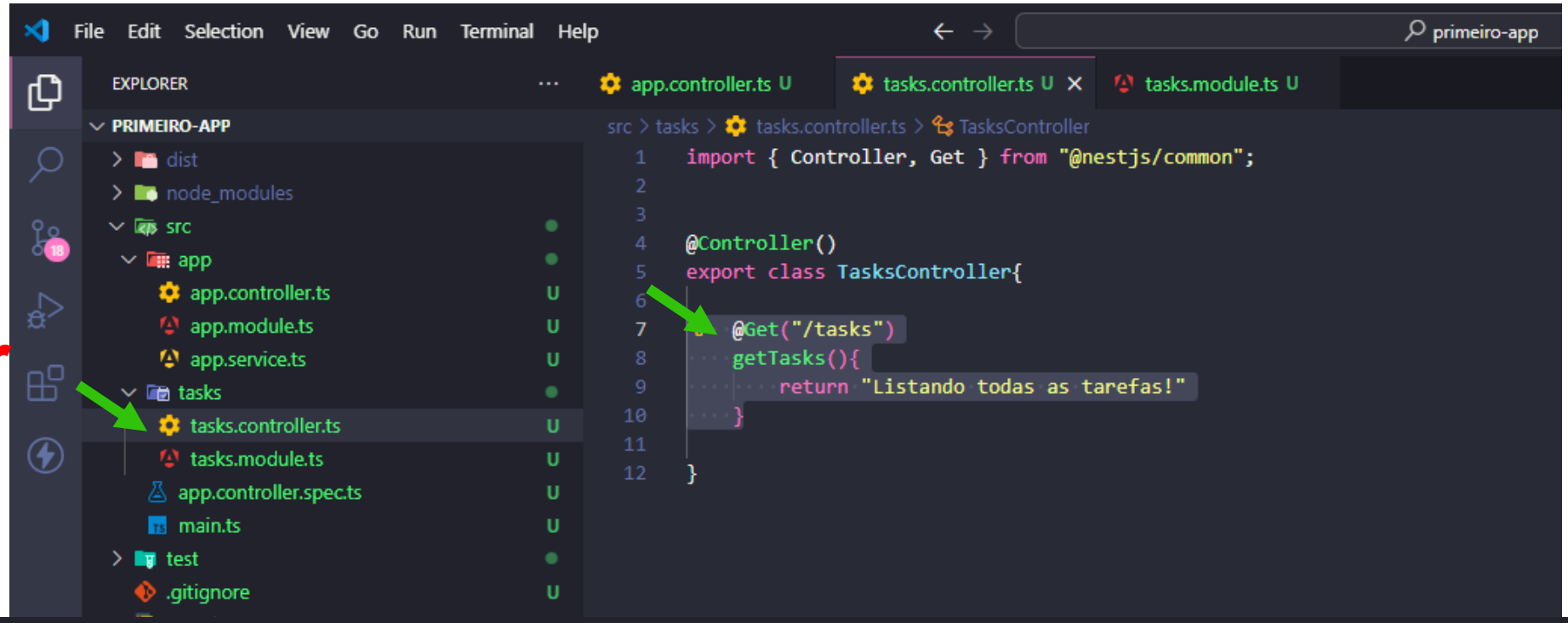
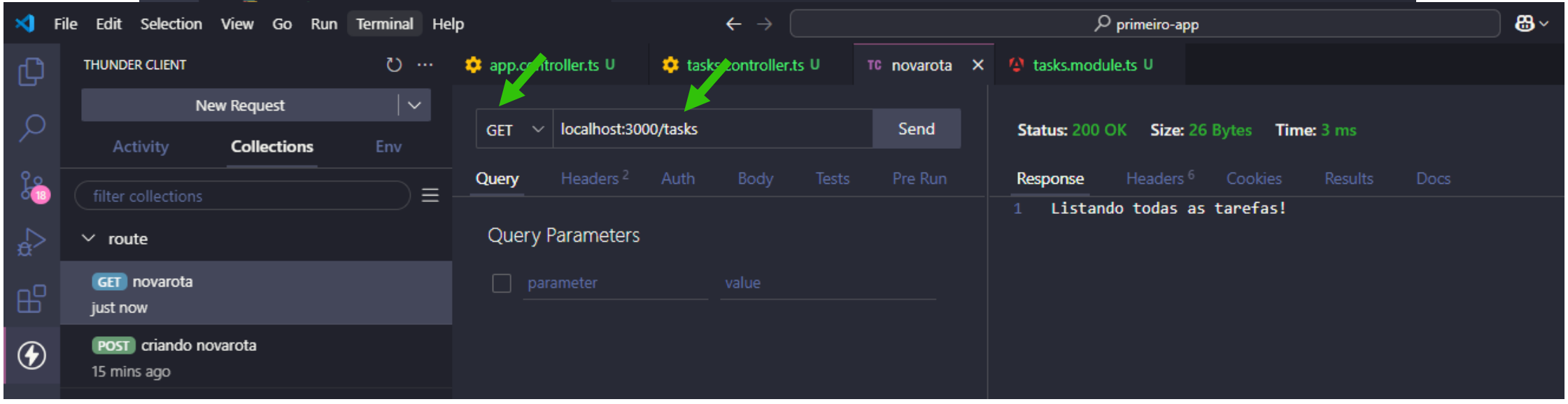
Gerando Controller

Deletar





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Gerando Controller com CLI

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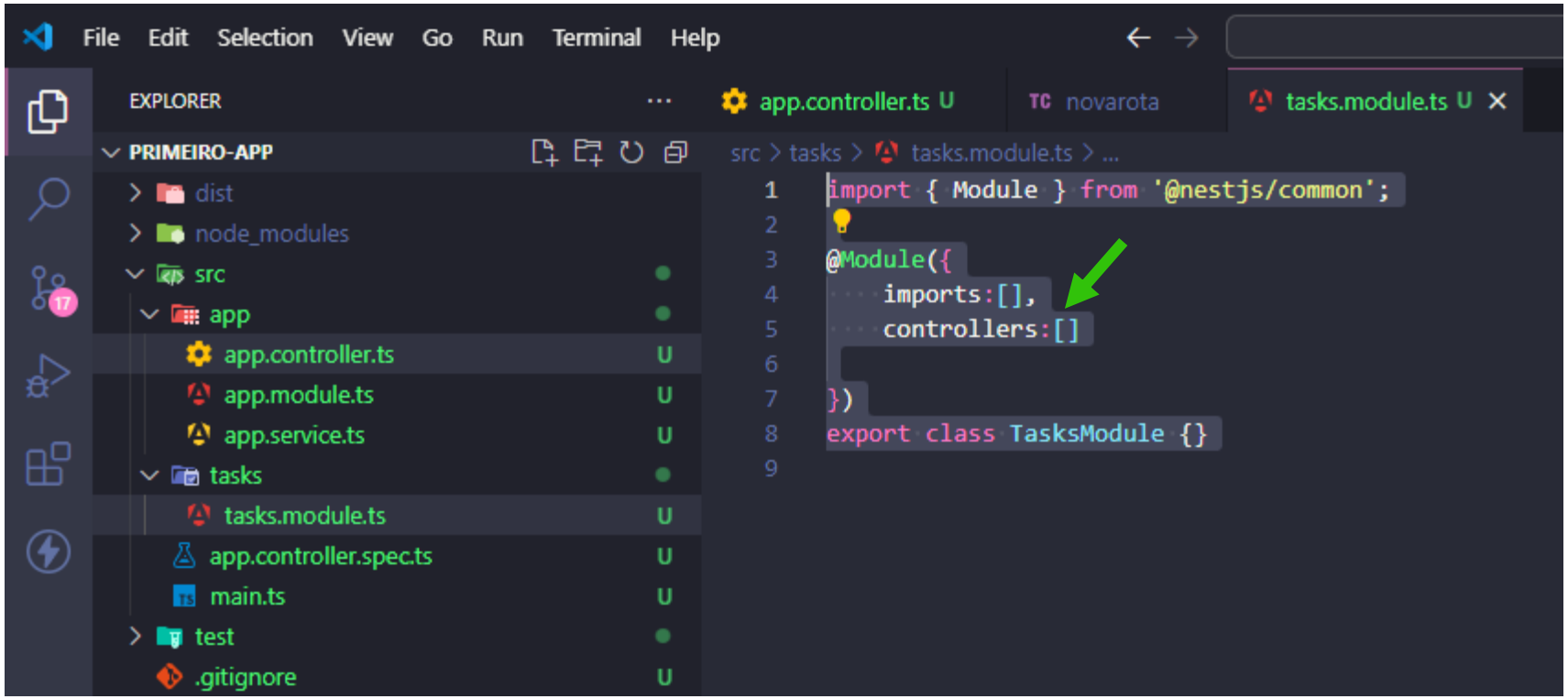

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Gerando Controller com CLI

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Gerando Controller com CLI

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File Edit Selection View Go Run Terminal Help

primeiro-app

EXPLORER

PRIMEIRO-APP

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- node_modules
- src
  - app
    - app.controller.ts U
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- package-lock.json U
- package.json U
- README.md U
- tsconfig.build.json U
- tsconfig.json U

OUTLINE

TIMELINE

src > tasks > tasks.module.ts > ...

```ts
import { Module } from '@nestjs/common';
import { TasksController } from './tasks.controller';

@Module({
    imports:[],
    controllers:[TasksController]

})
export class TasksModule {}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
Options:
  -v, --version                               Output the current version.
  -h, --help                                  Output usage information.

Commands:
  new|n [options] [name]                      Generate Nest application.
  build [options] [apps...]                   Build Nest application.
  start [options] [app]                       Run Nest application.
  info|i                                      Display Nest project details.
  add [options] <library>                     Adds support for an external library to your project.
  generate|g [options] <schematic> [name] [path]  Generate a Nest element.
    Schematics available on @nestjs/schematics collection:

┌────────────────┬─────────────┬──────────────────────────────────────────────┐
│ name           │ alias       │ description                                  │
│ application    │ application │ Generate a new application workspace         │
│ class          │ cl          │ Generate a new class                         │
│ configuration  │ config      │ Generate a CLI configuration file            │
│ controller     │ co          │ Generate a controller declaration            │
│ decorator      │ d           │ Generate a custom decorator                  │
│ filter         │ f           │ Generate a filter declaration                │
│ gateway        │ ga          │ Generate a gateway declaration               │
│ guard          │ gu          │ Generate a guard declaration                 │
│ interceptor    │ itc         │ Generate an interceptor declaration          │
│ interface      │ itf         │ Generate an interface                        │
│ library        │ lib         │ Generate a new library within a monorepo     │
│ middleware     │ mi          │ Generate a middleware declaration            │
│ module         │ mo          │ Generate a module declaration                │
│ pipe           │ pi          │ Generate a pipe declaration                  │
│ provider       │ pr          │ Generate a provider declaration              │
│ resolver       │ r           │ Generate a GraphQL resolver declaration      │
│ resource       │ res         │ Generate a new CRUD resource                 │
│ service        │ s           │ Generate a service declaration               │
│ sub-app        │ app         │ Generate a new application within a monorepo │
└────────────────┴─────────────┴──────────────────────────────────────────────┘

PS C:\Aggio\nestjs\primeiro-app> nest g controller tasks
CREATE src/tasks/tasks.controller.ts (103 bytes)
CREATE src/tasks/tasks.controller.spec.ts (503 bytes)
UPDATE src/tasks/tasks.module.ts (196 bytes)
PS C:\Aggio\nestjs\primeiro-app>
```

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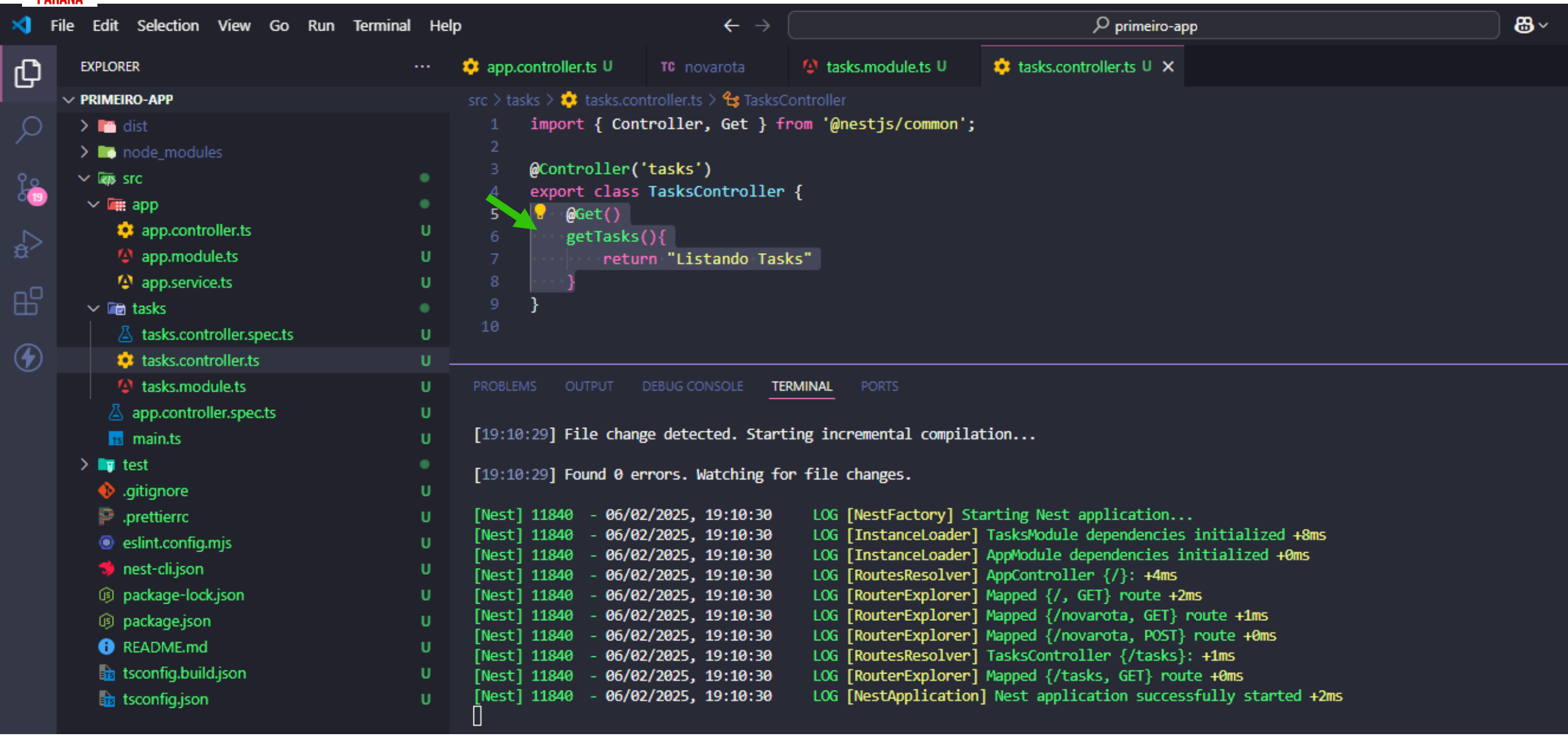
Gerando Controller com CLI



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Gerando Service / Provider

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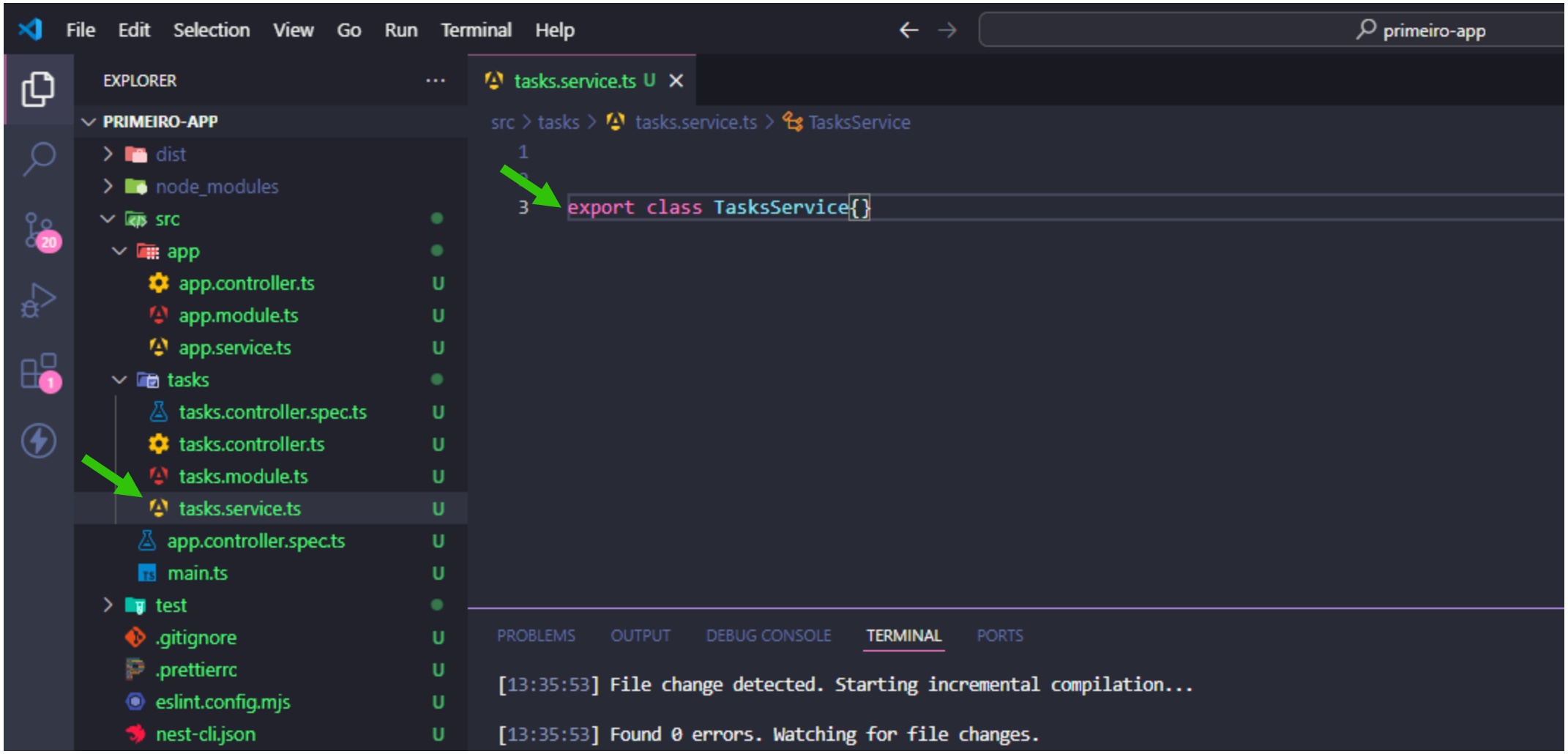

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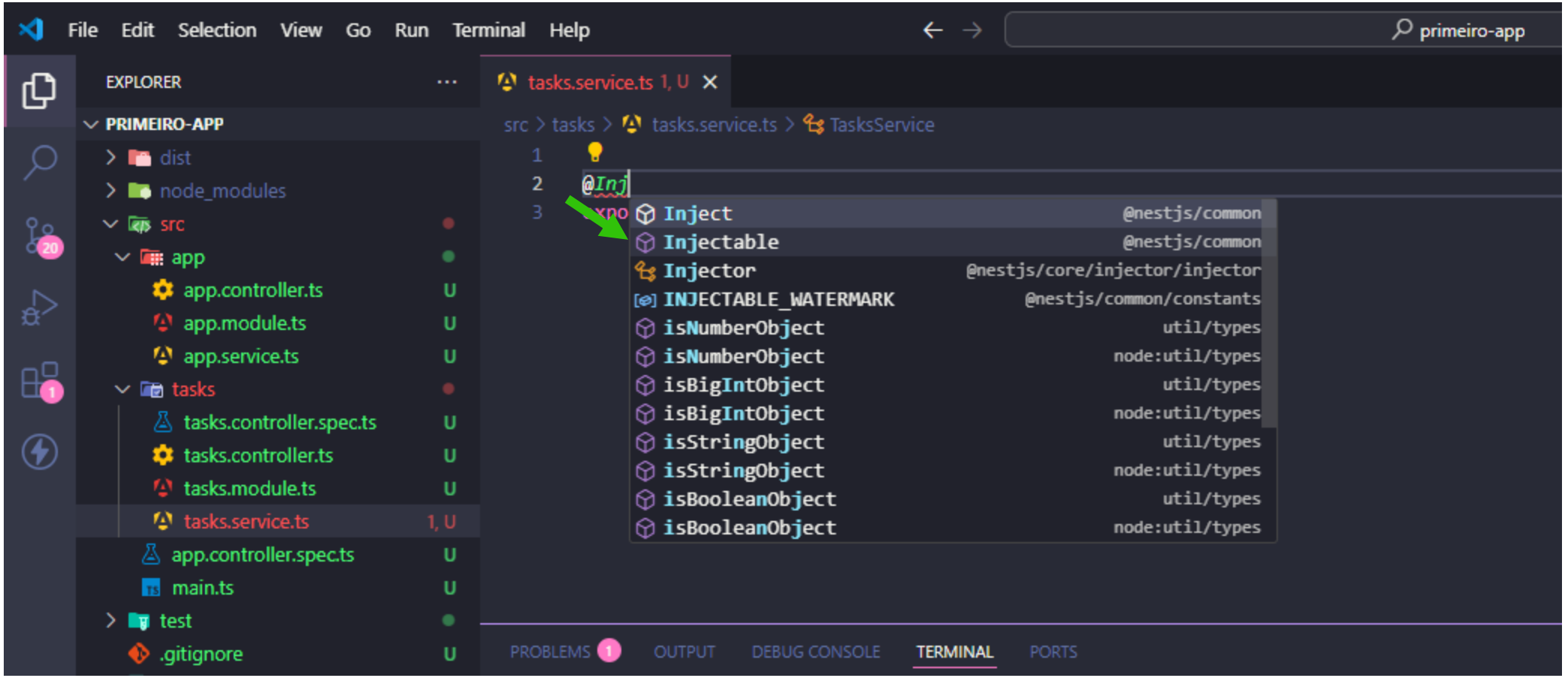

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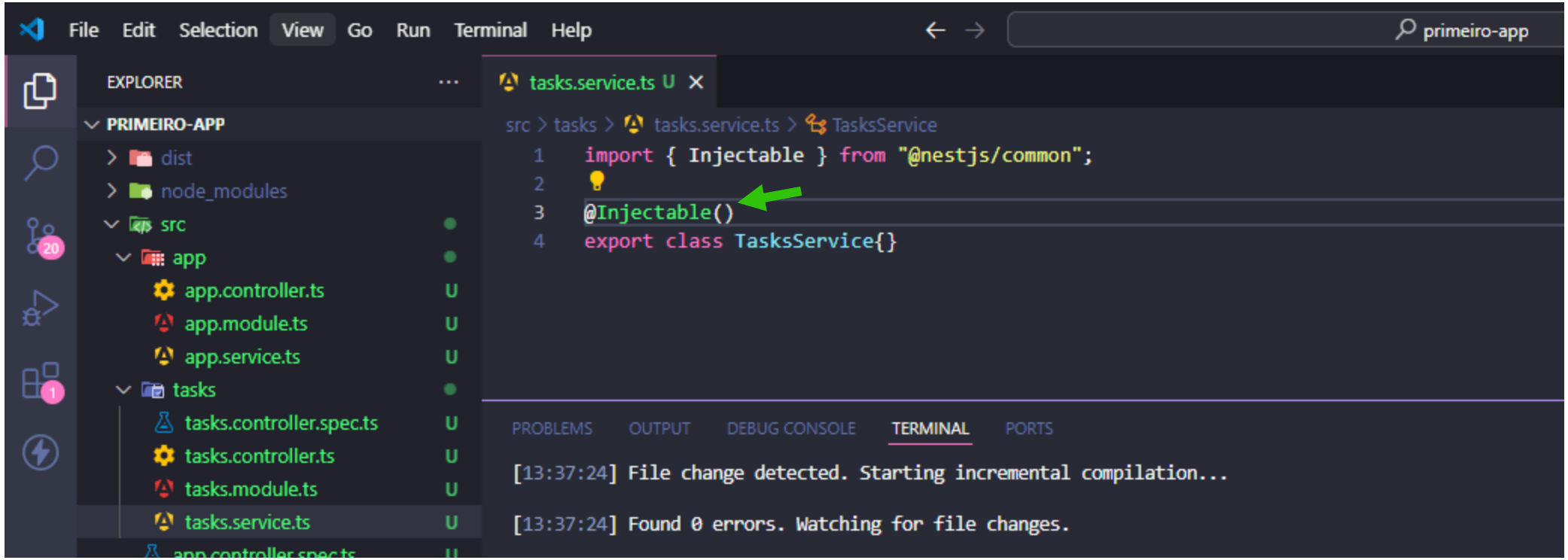

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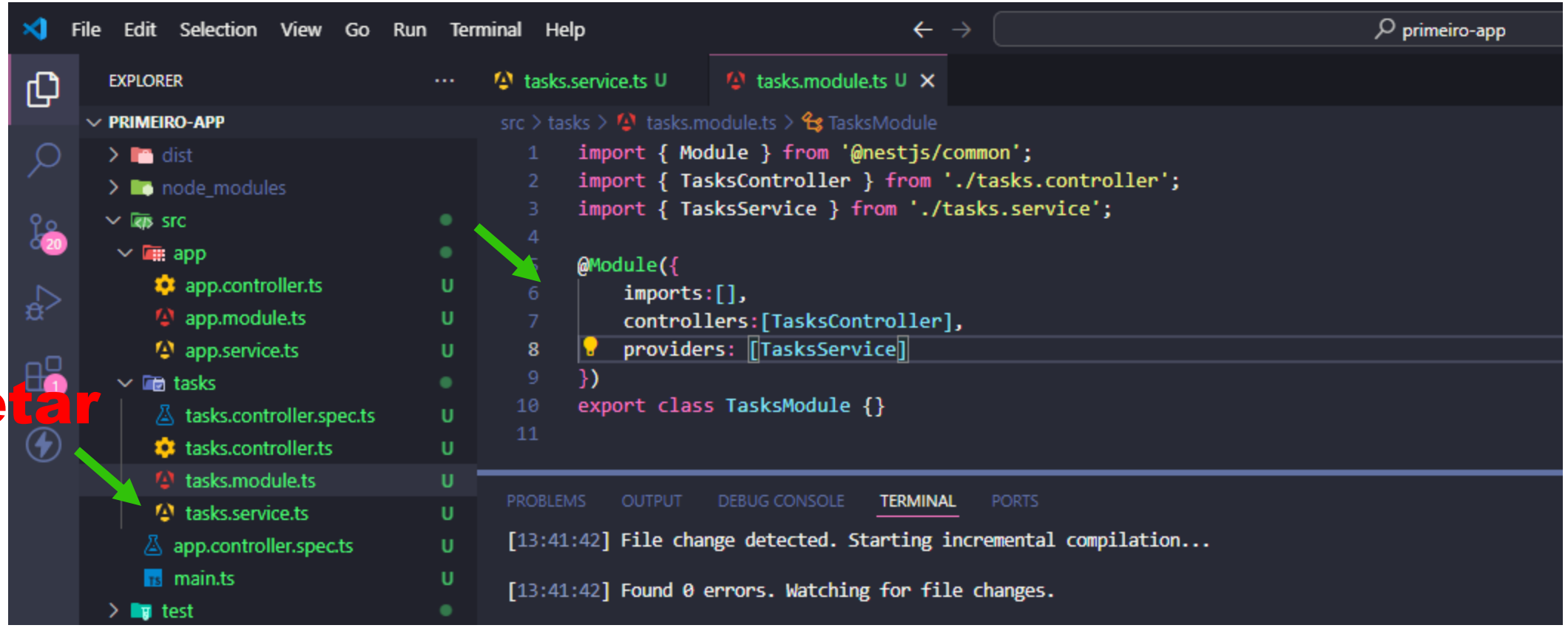
Gerando Service / Provider

deletar



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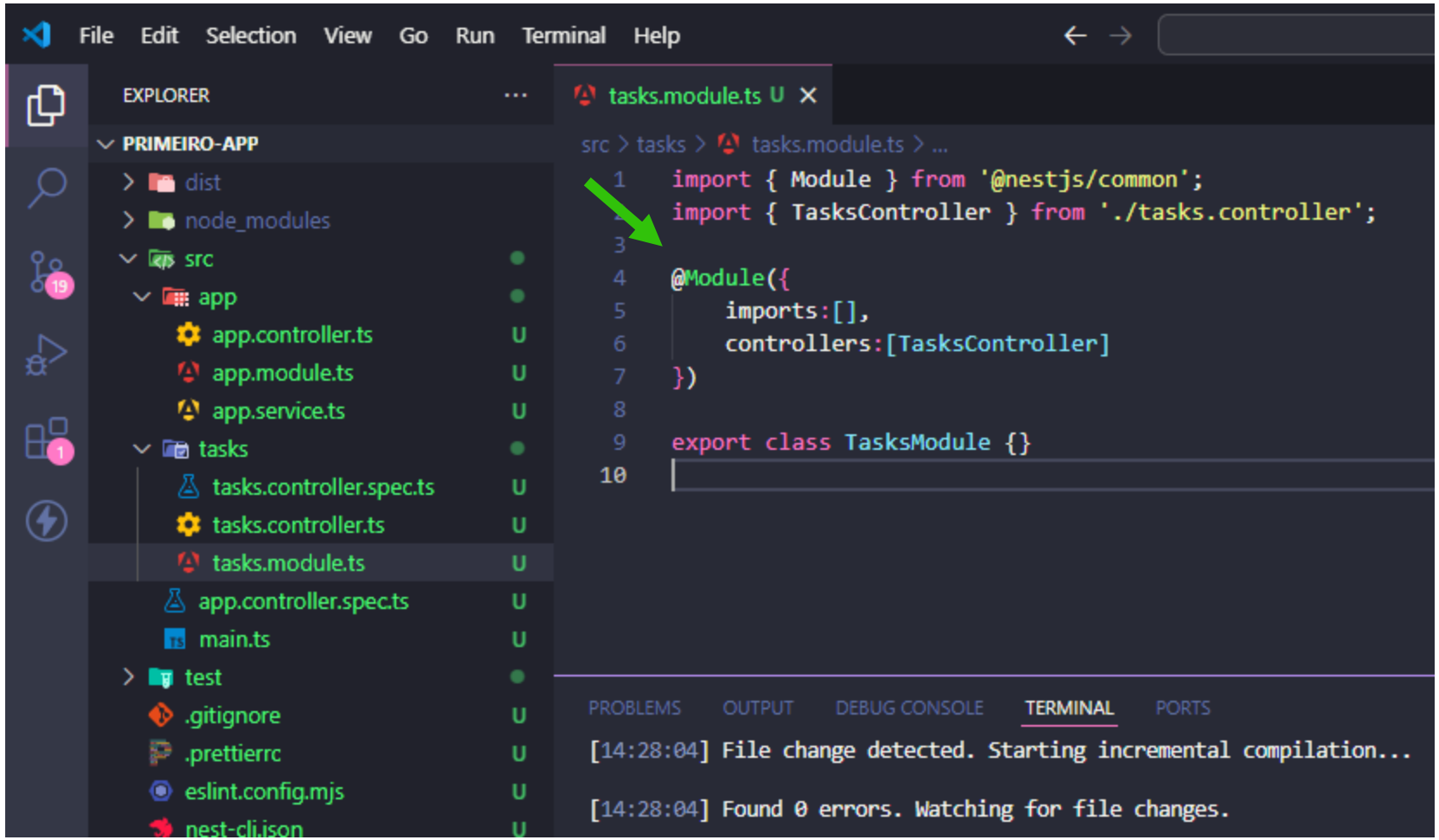

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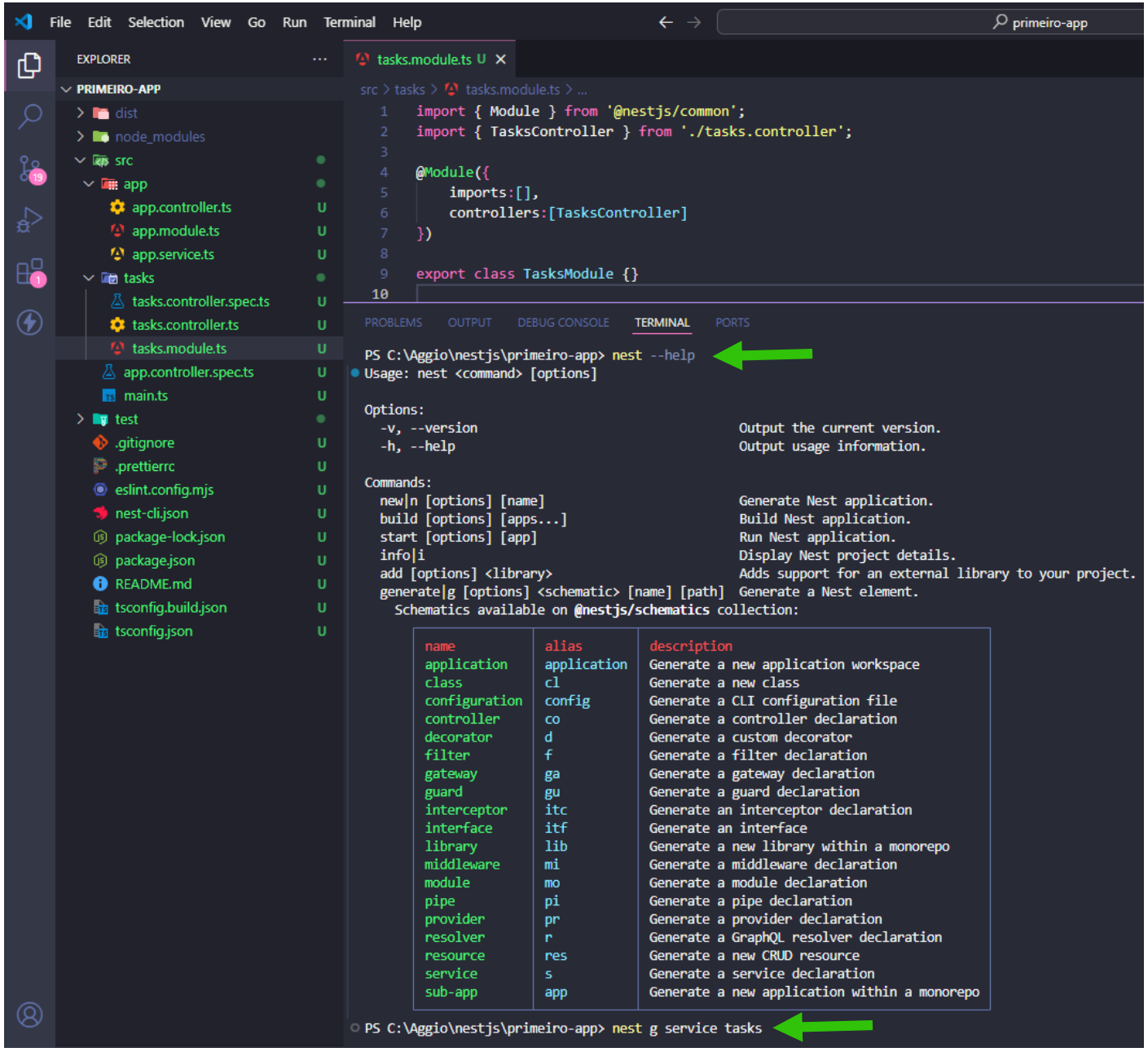

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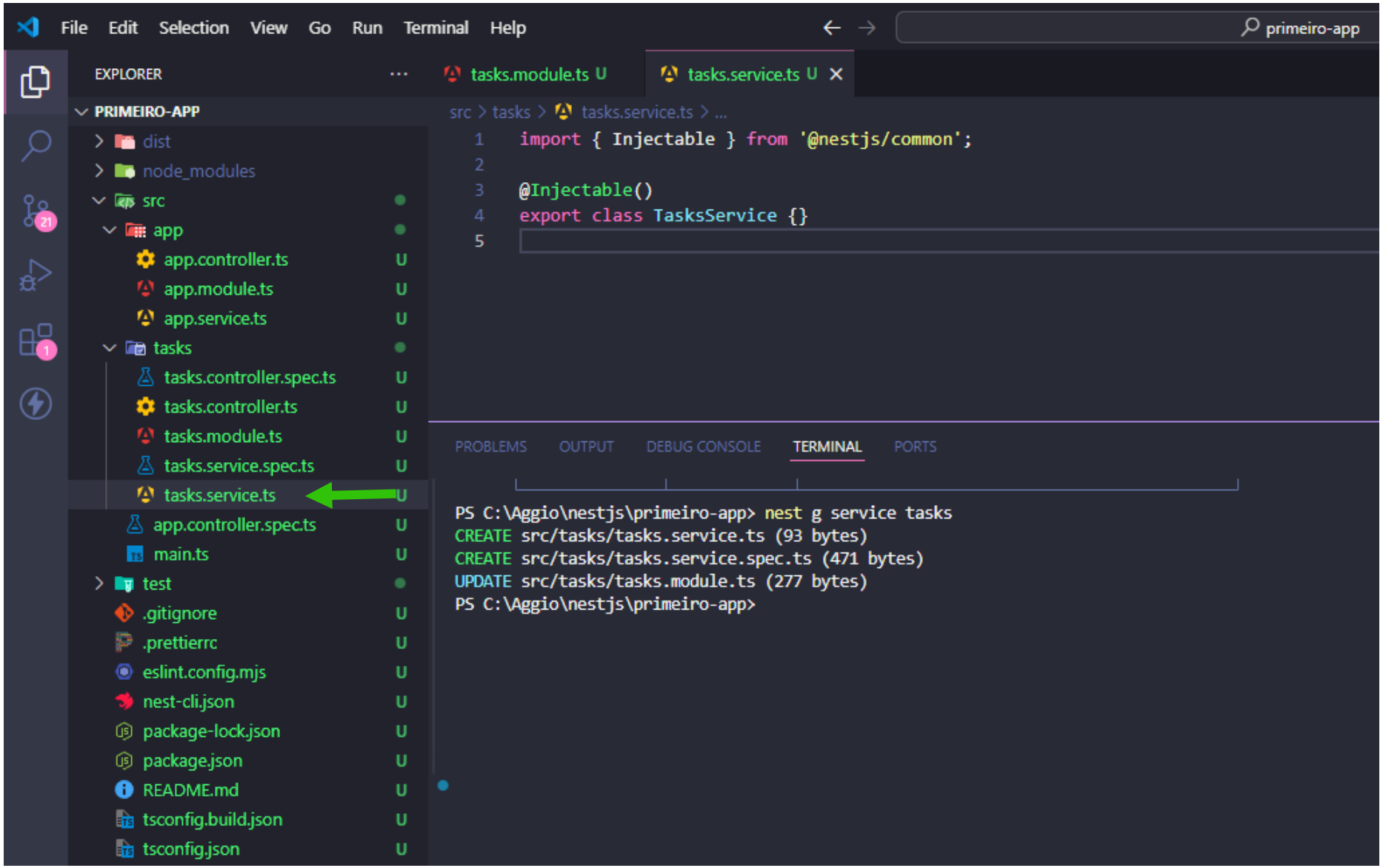

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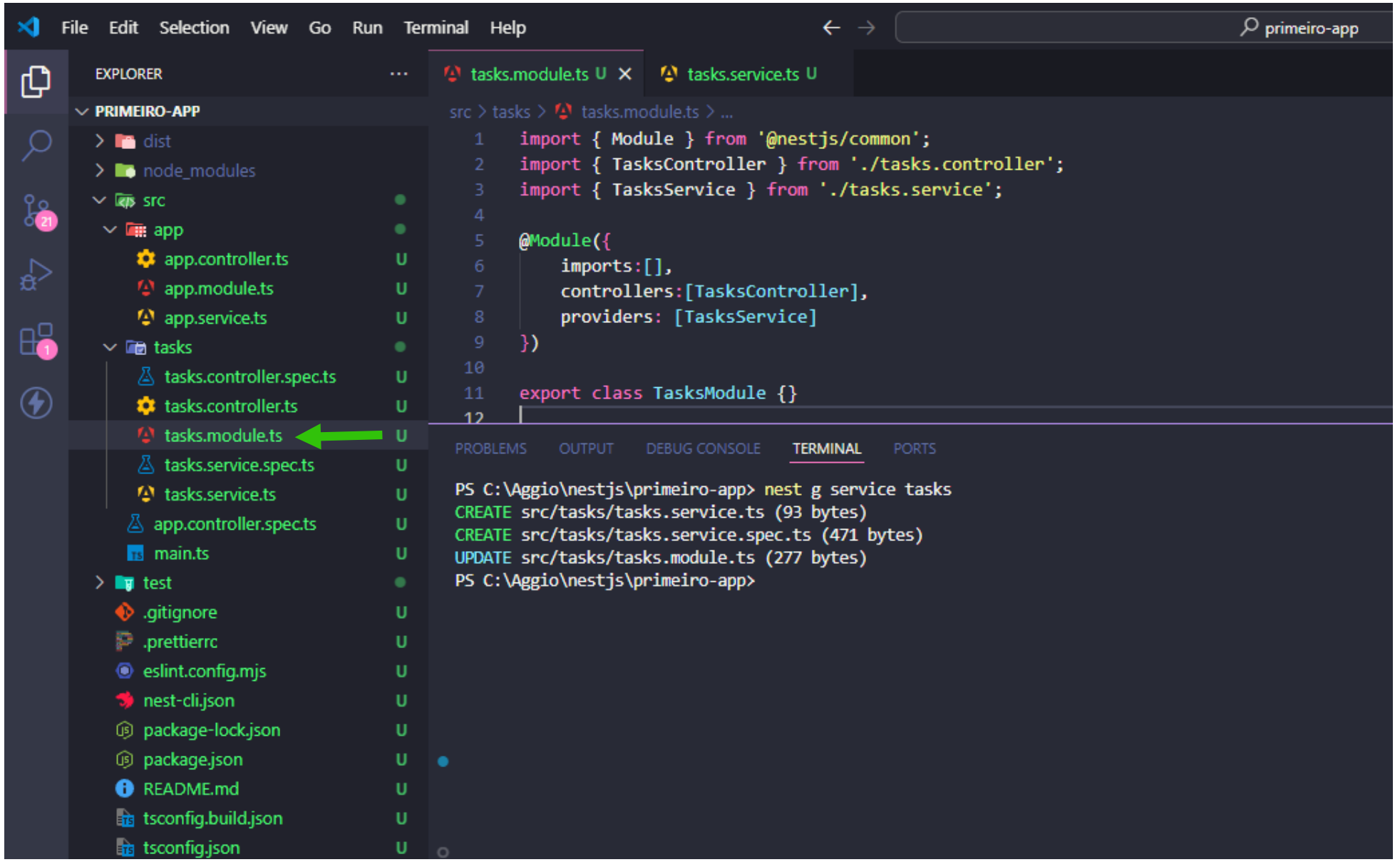

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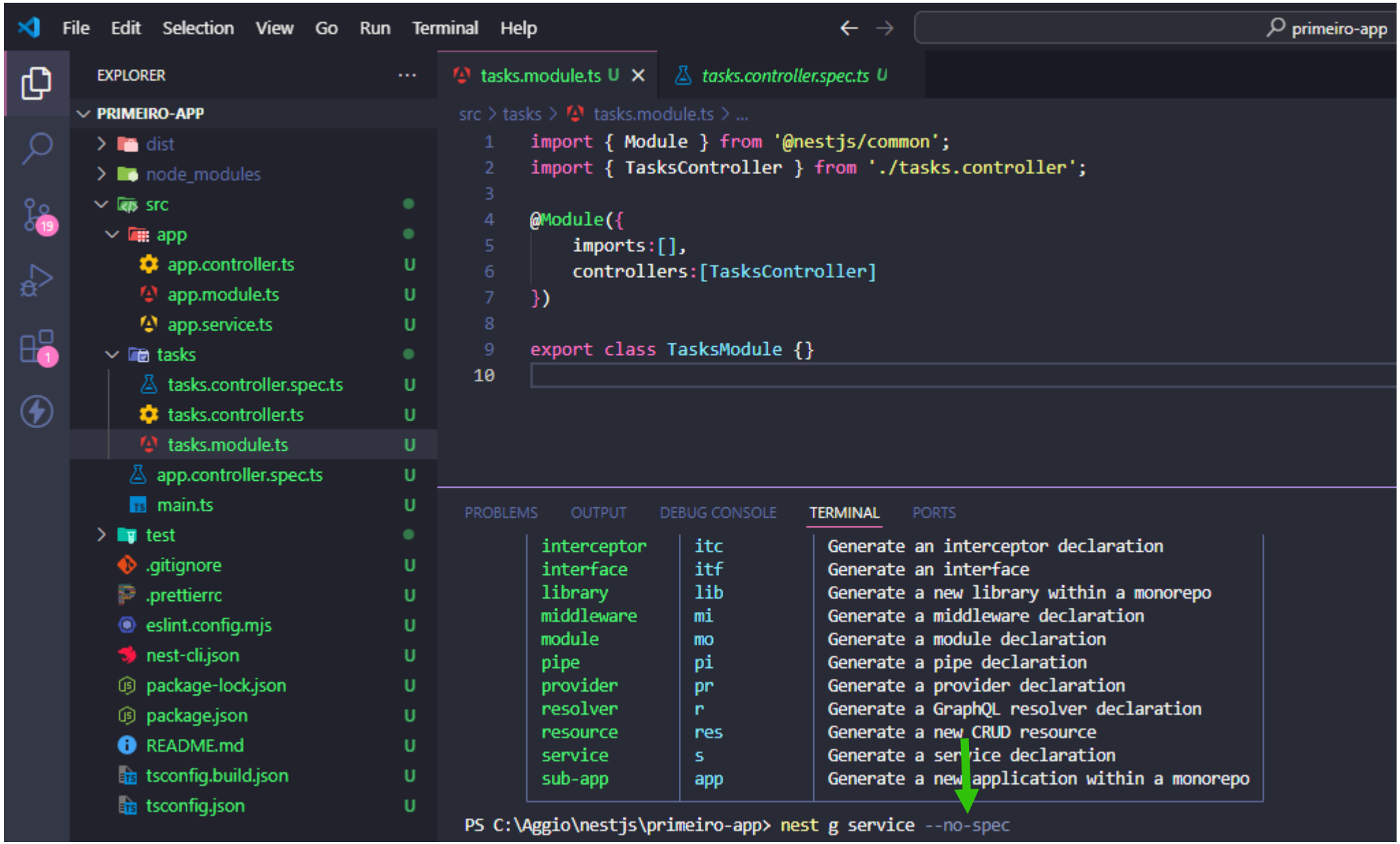
Gerando Service / Provider



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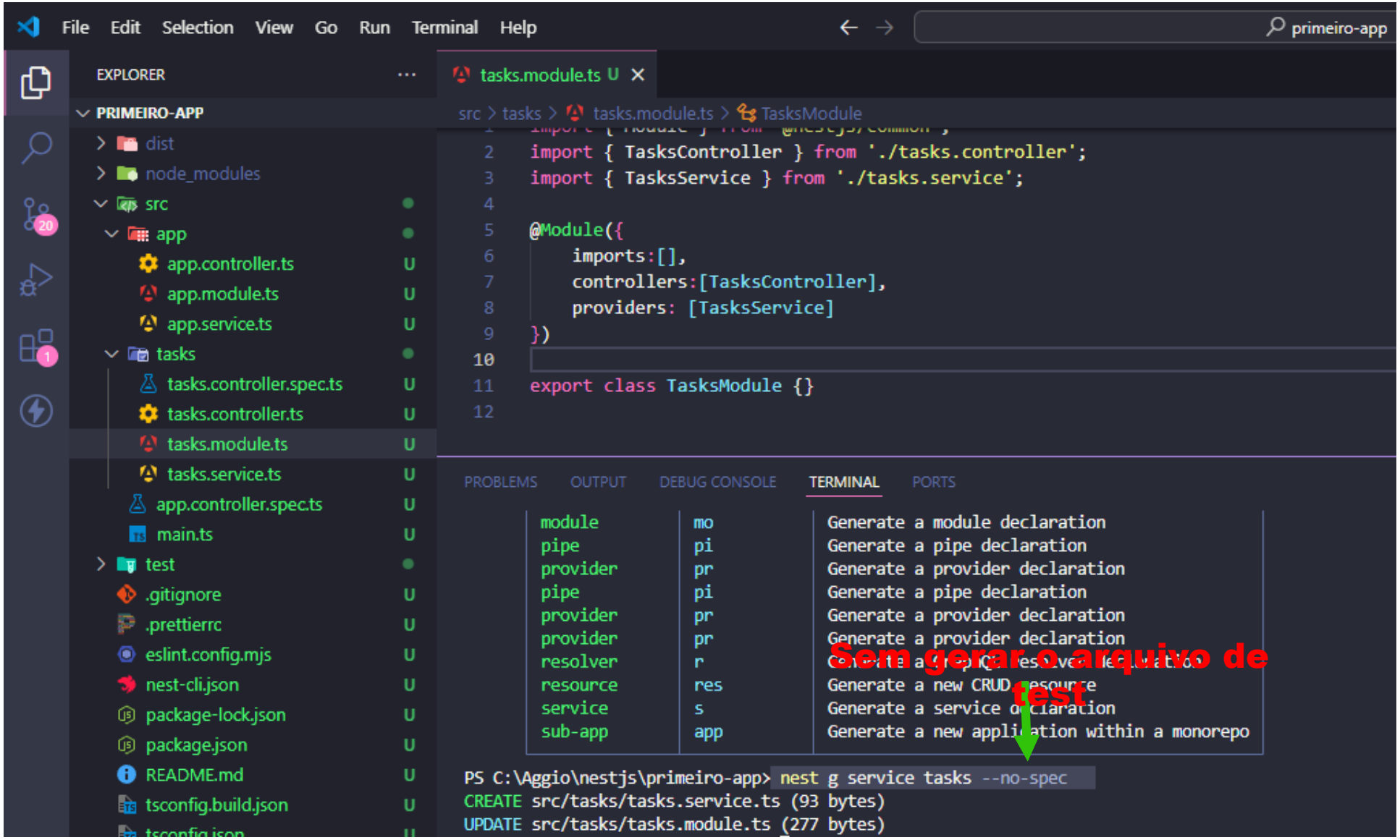

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Gerando Service / Provider

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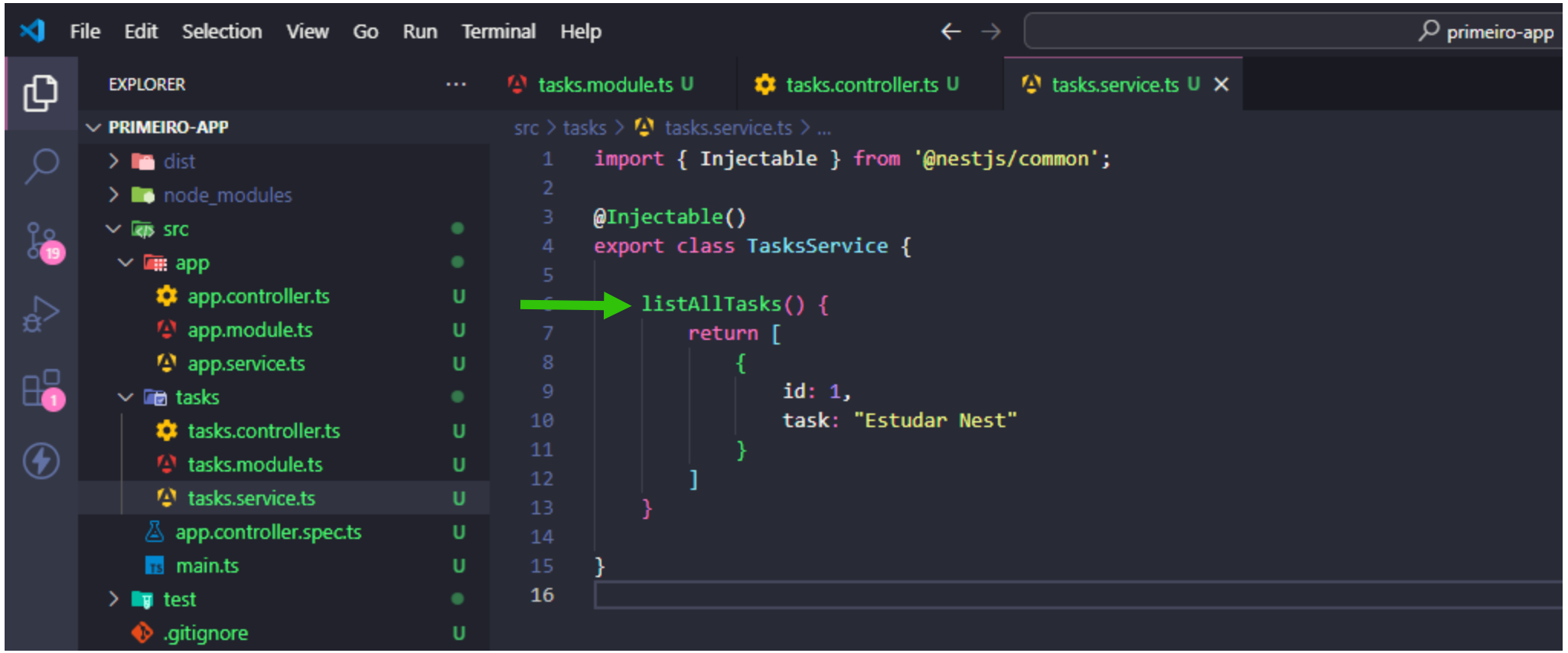

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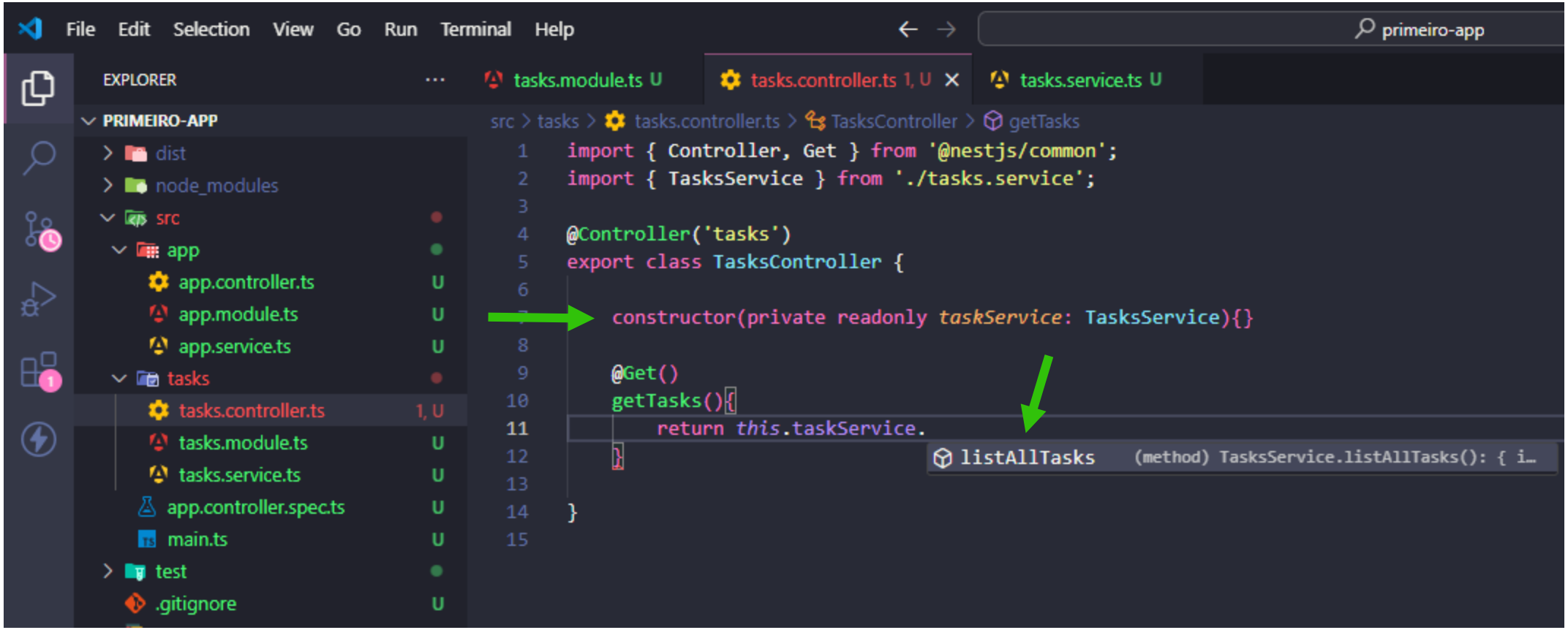
Gerando Service / Provider



Gerando Service / Provider

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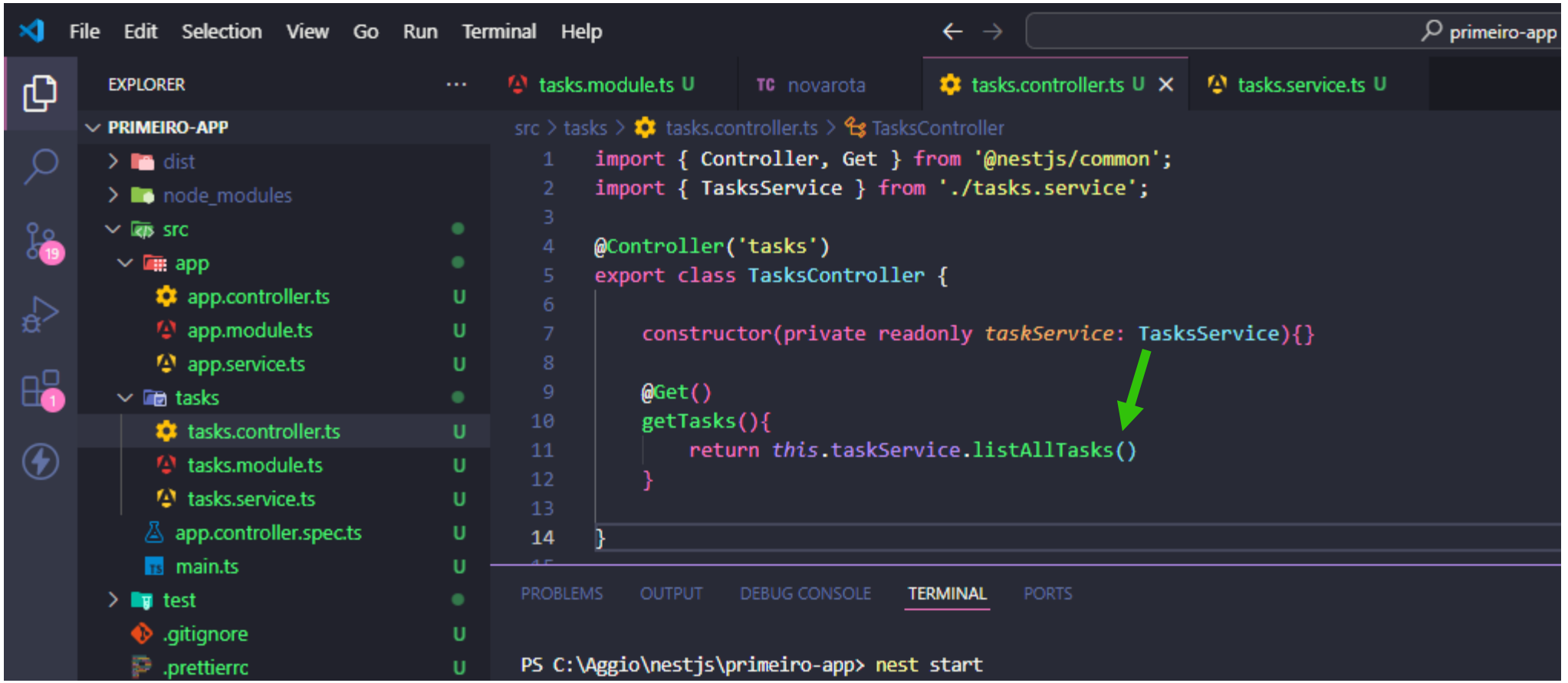

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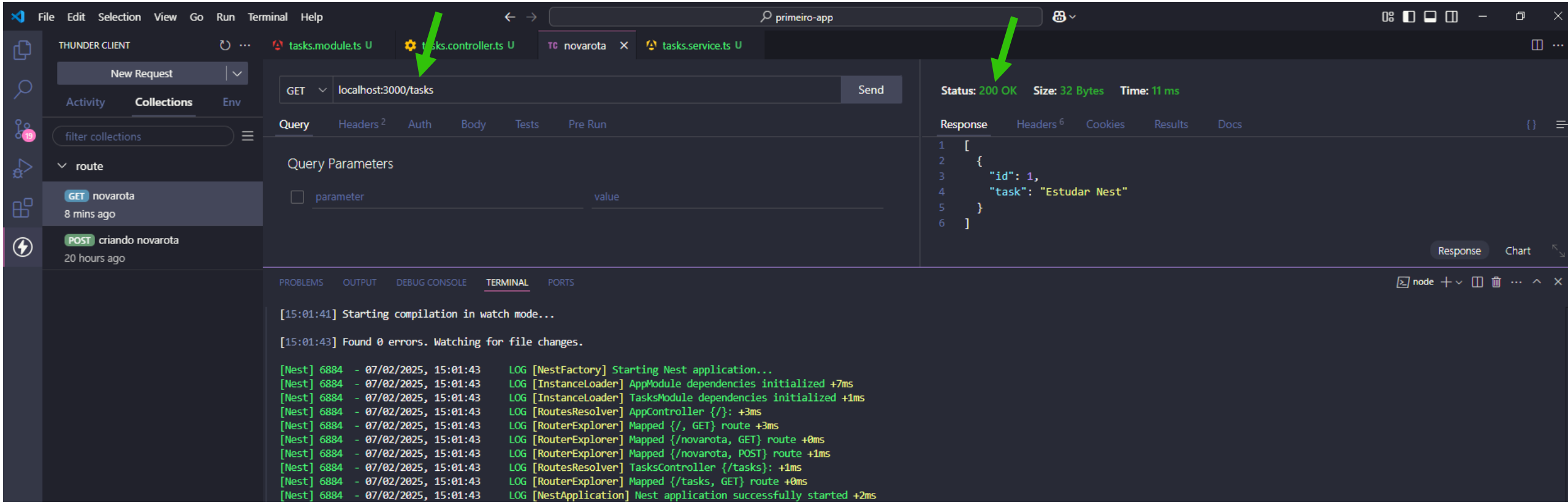
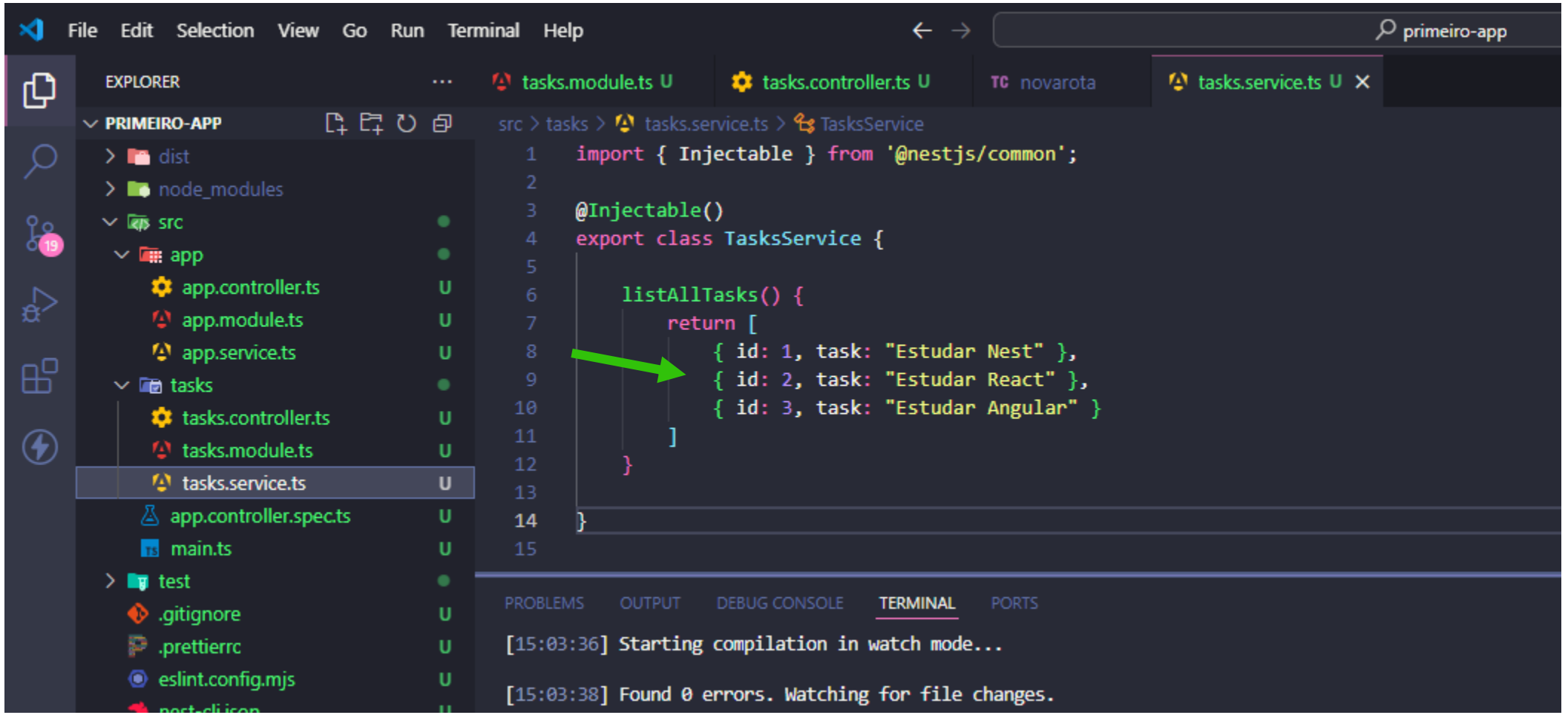
Gerando Service / Provider



Gerando Service / Provider

Prof. Dr. Robyson Aggio



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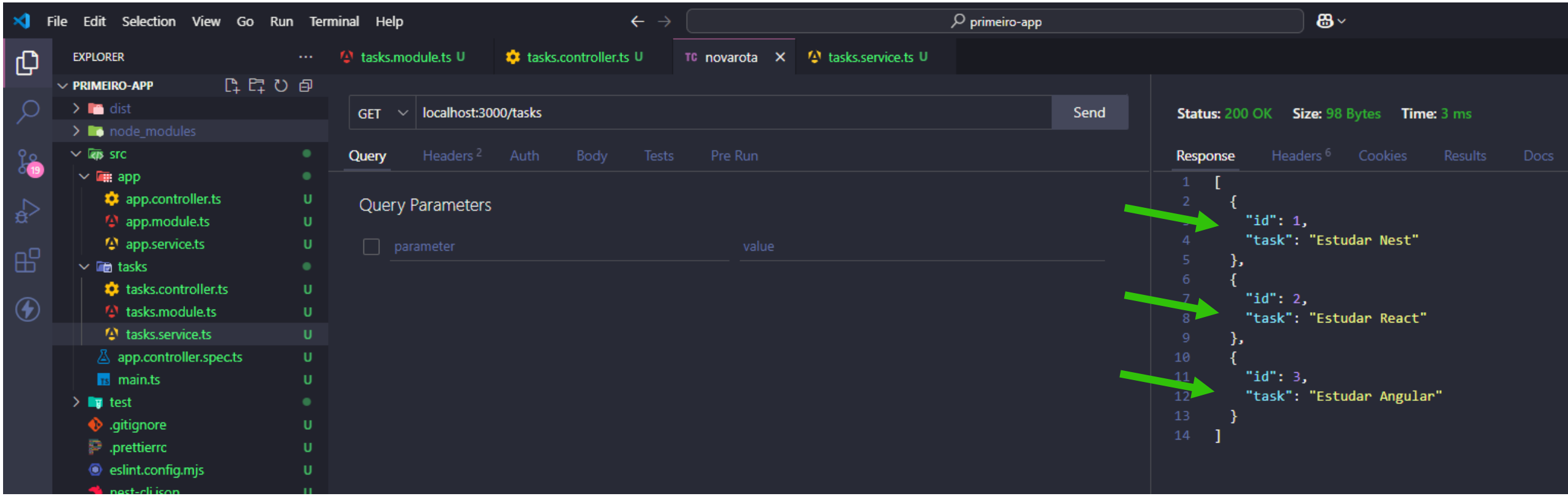

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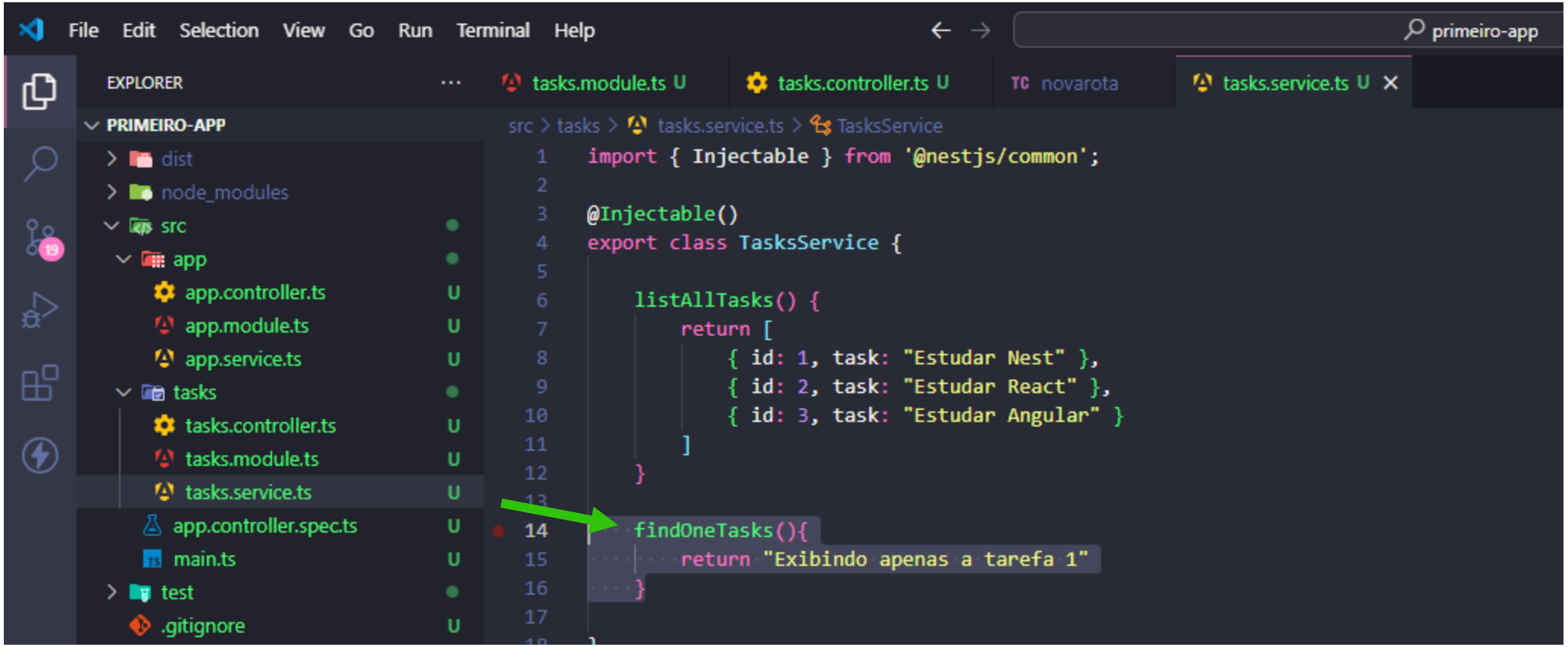

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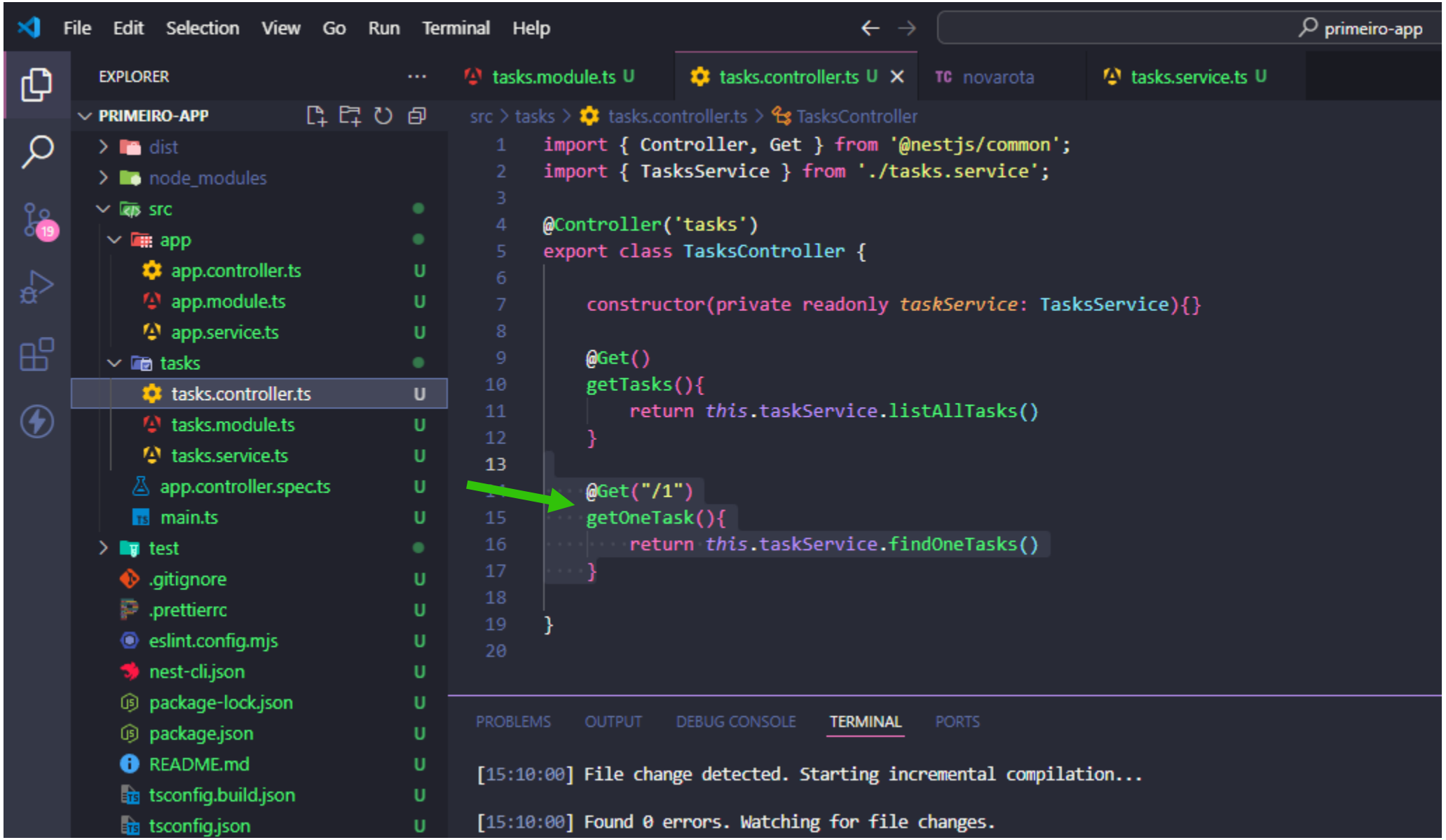

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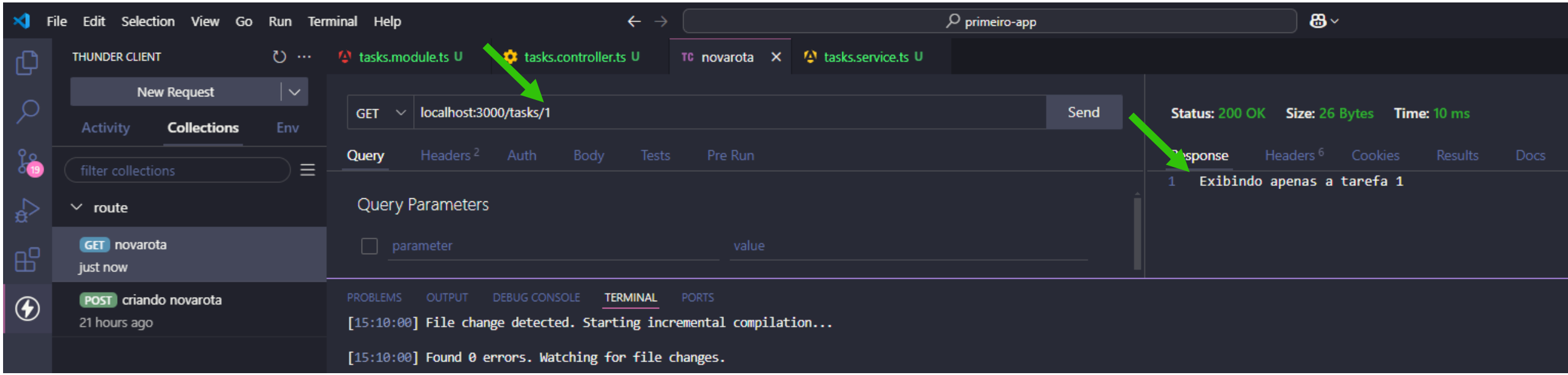

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Atividade

1) Crie as camadas: Guests, Users e Teachers

2) Implemente sem utilizar a CLI: Module, Controller e Service

3) Implemente o verbo Get, para listar tudo e por id

4) Teste as rotas no Postman ou Thunder Client

5) Refaça os itens de 1 a 4, utilizando a CLI

CLI = Interface de Linha de Comando

Lembrete: nest g opçãoDoHelp nomeDaCamada