Graduação em Análise de Sistemas

Tecnologia Web III

ANGULAR

+

TypeScript

Senac

O que é o Angular?

FrameWork para desenvolvimento de aplicações web, desktop e mobile.
Atua na parte front-end

Baseado em typescript

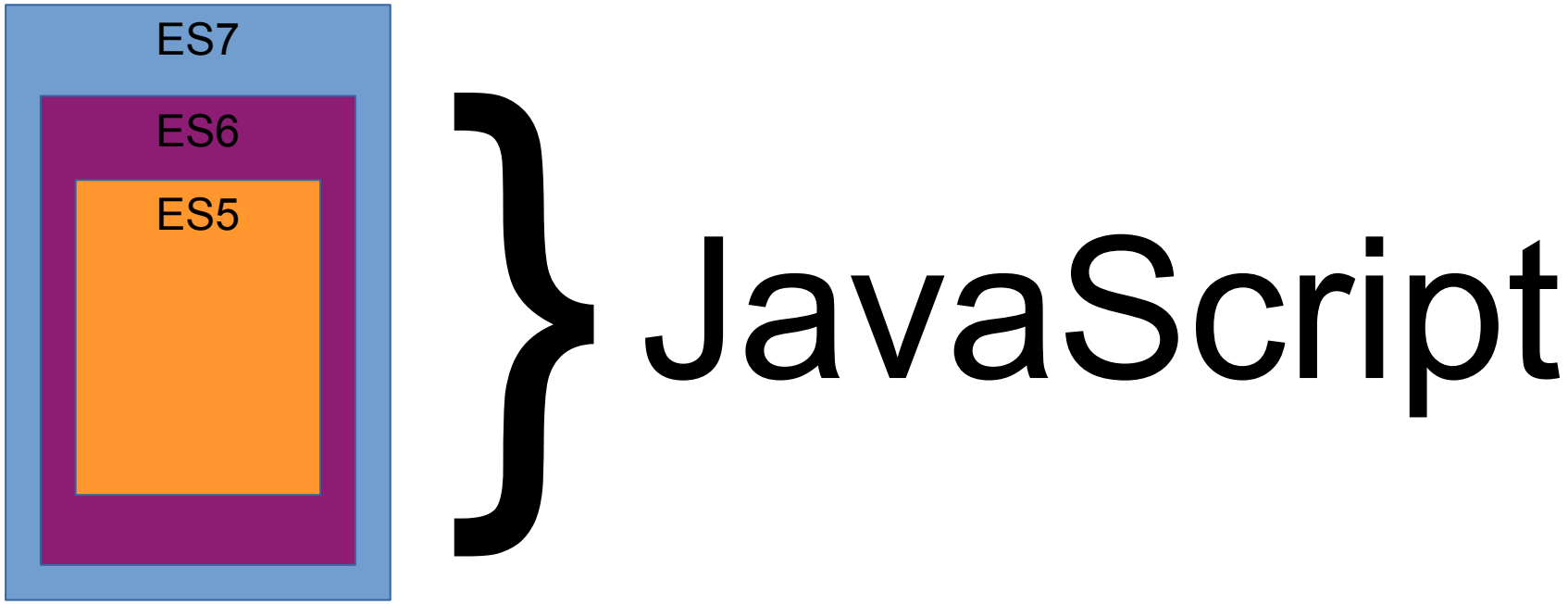
Antes de entrar no Angular precisamos trabalhar com TypeScript

O que é o TypeScript?

TypeScript é um superconjunto de JavaScript desenvolvido pela Microsoft que adiciona tipagem e alguns outros recursos a linguagem.

JavaScript e ECMAScript

ECMAScript é uma especificação de linguagem, ou seja, ela define os padrões para uma linguagem de programação, e o JavaScript é a implementação desses padrões

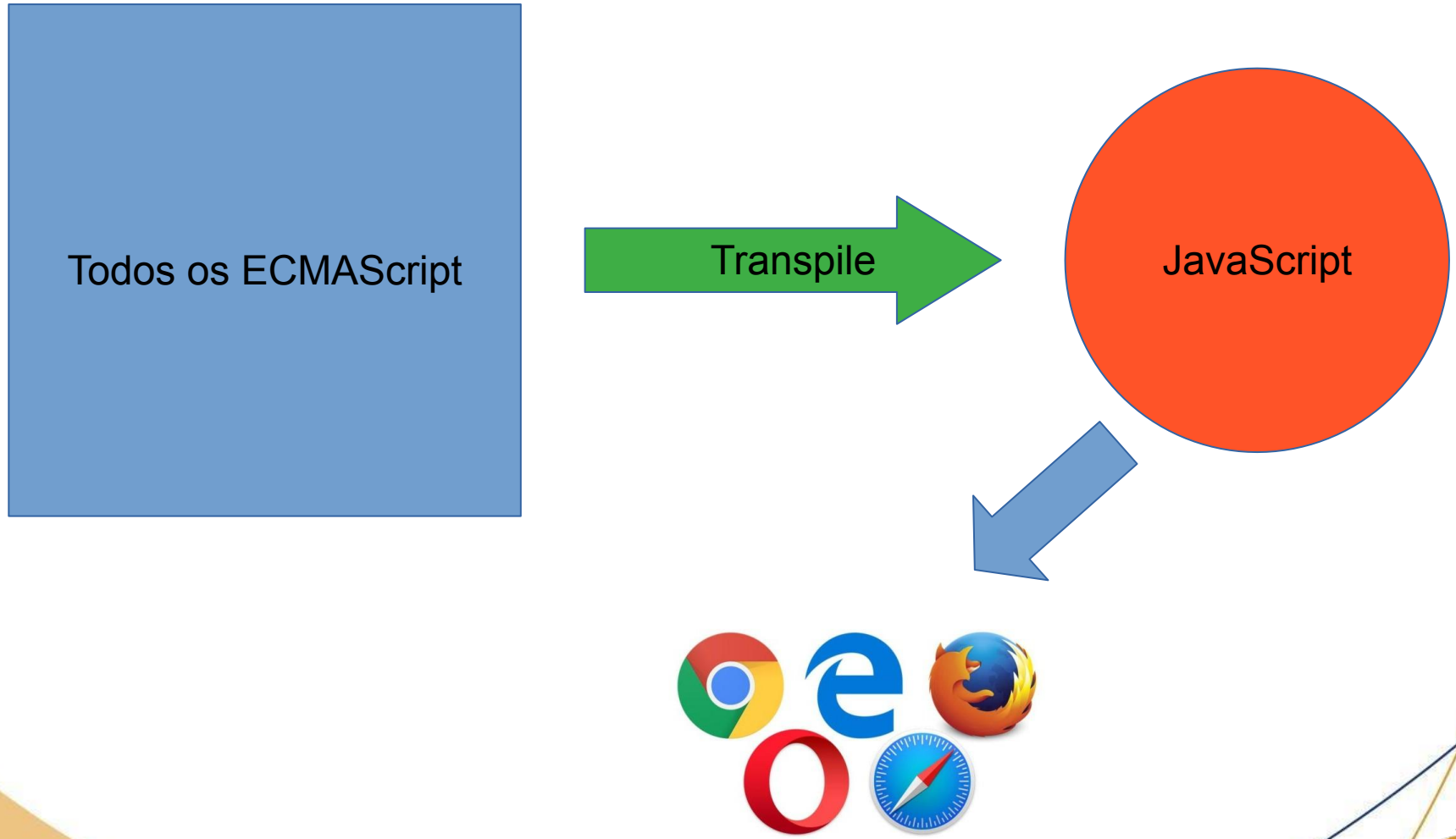


JavaScript

HTML + CSS + JavaScript

Egine(V8)

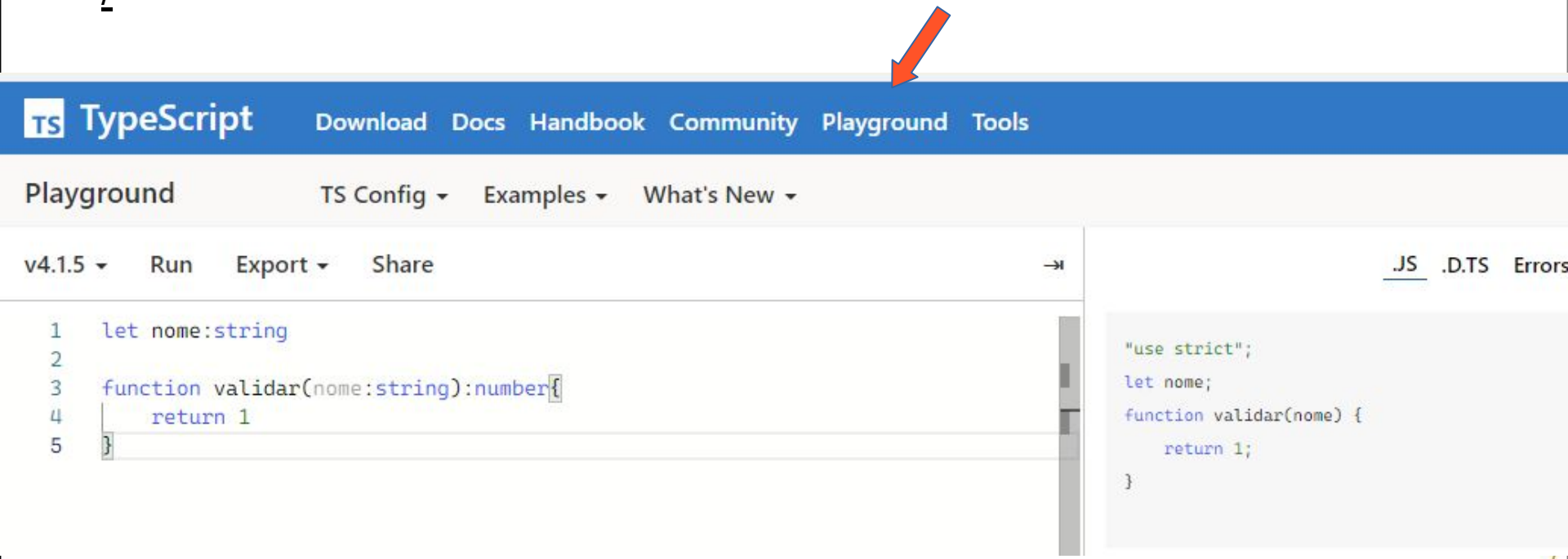
TypeScript



Mão na Massa

TypeScript vs JavaScript

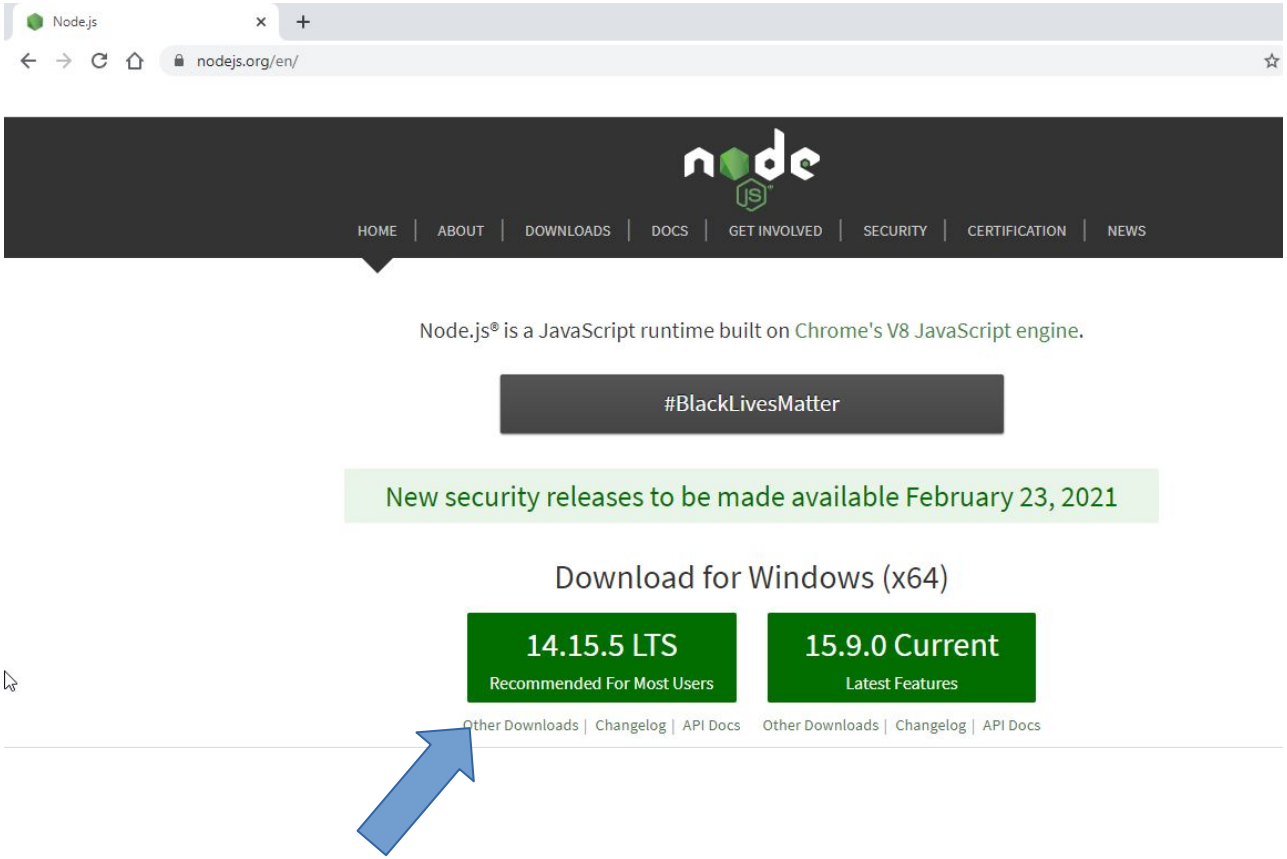
https://www.typescriptlang.org/



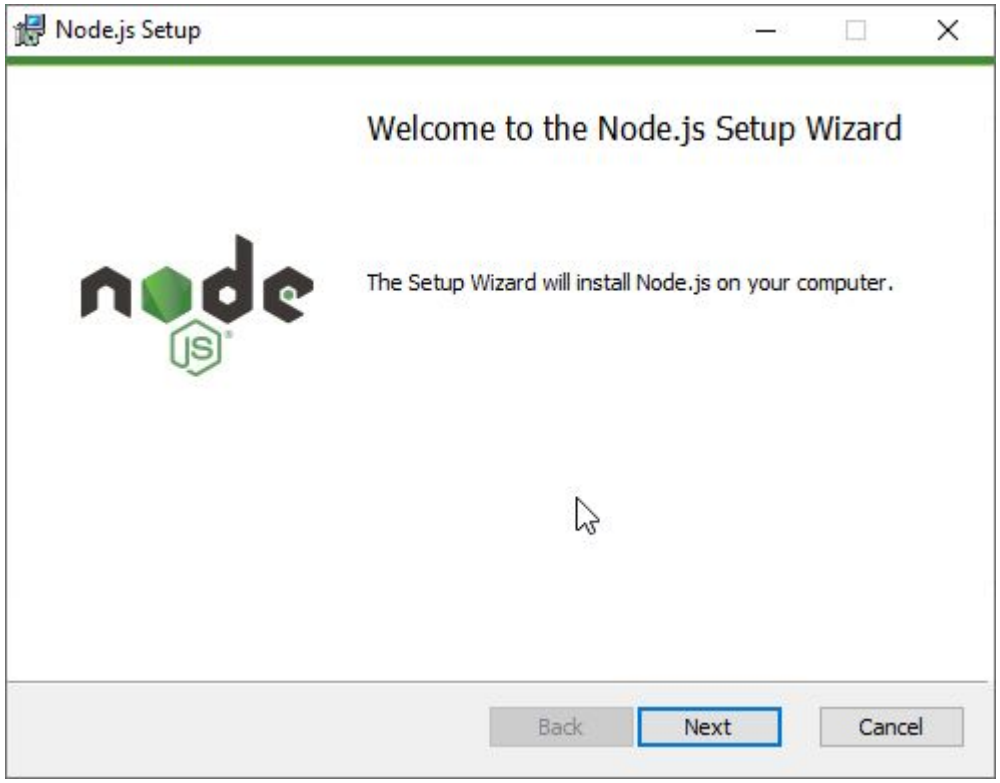
Instalação das ferramentas

https://nodejs.org/en/

- Controla as dependências de um
- projeto Auxilia na execução do código
- Instalação do Angular e TypeScript

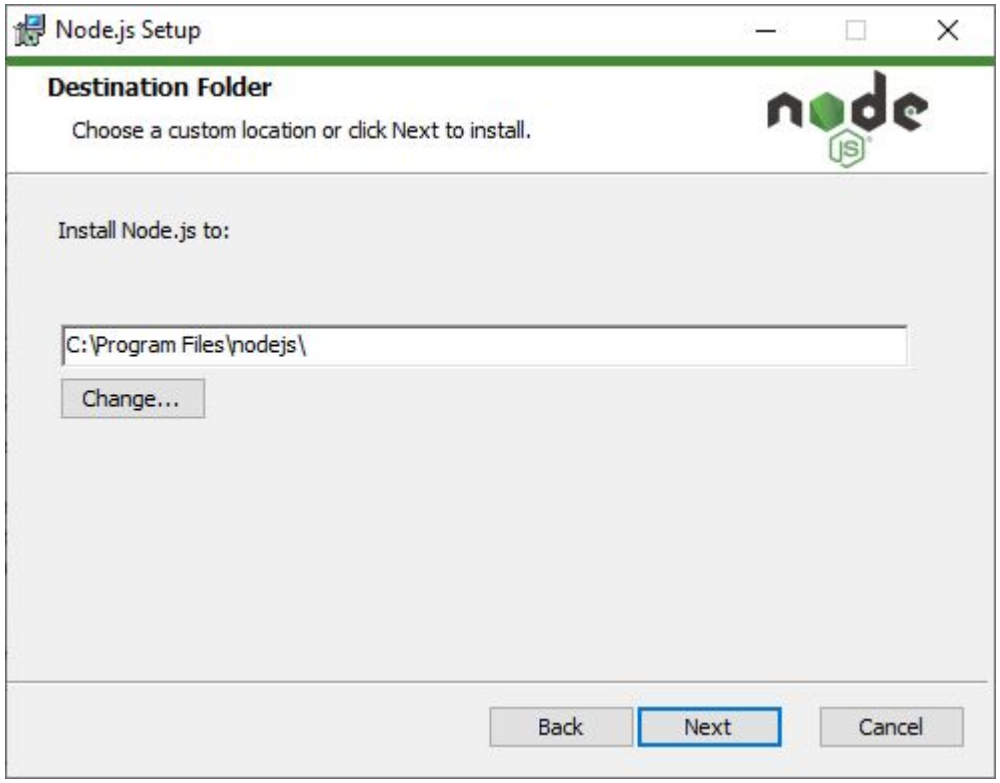


Instalação nodejs

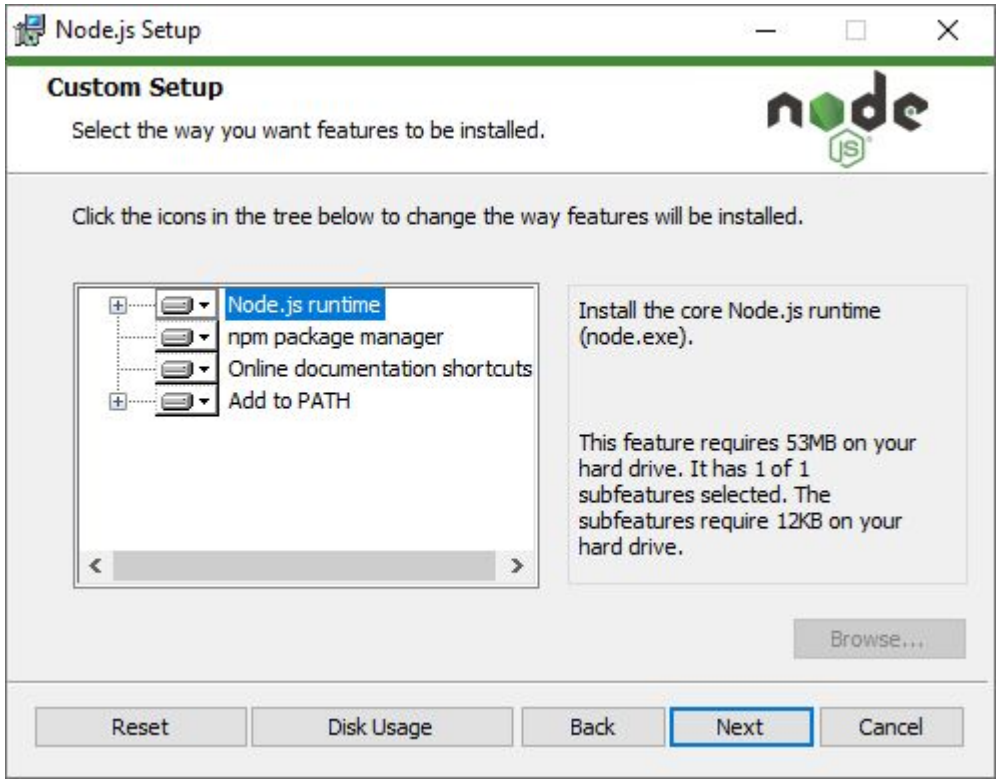


Instalação nodejs

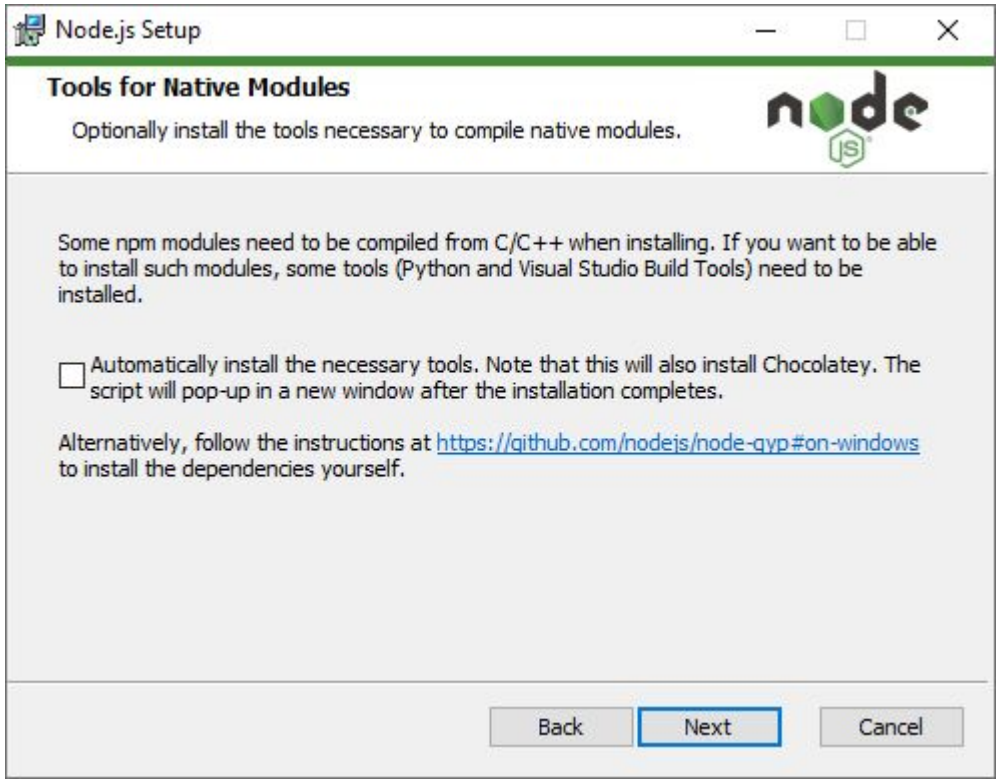
Instalação nodejs



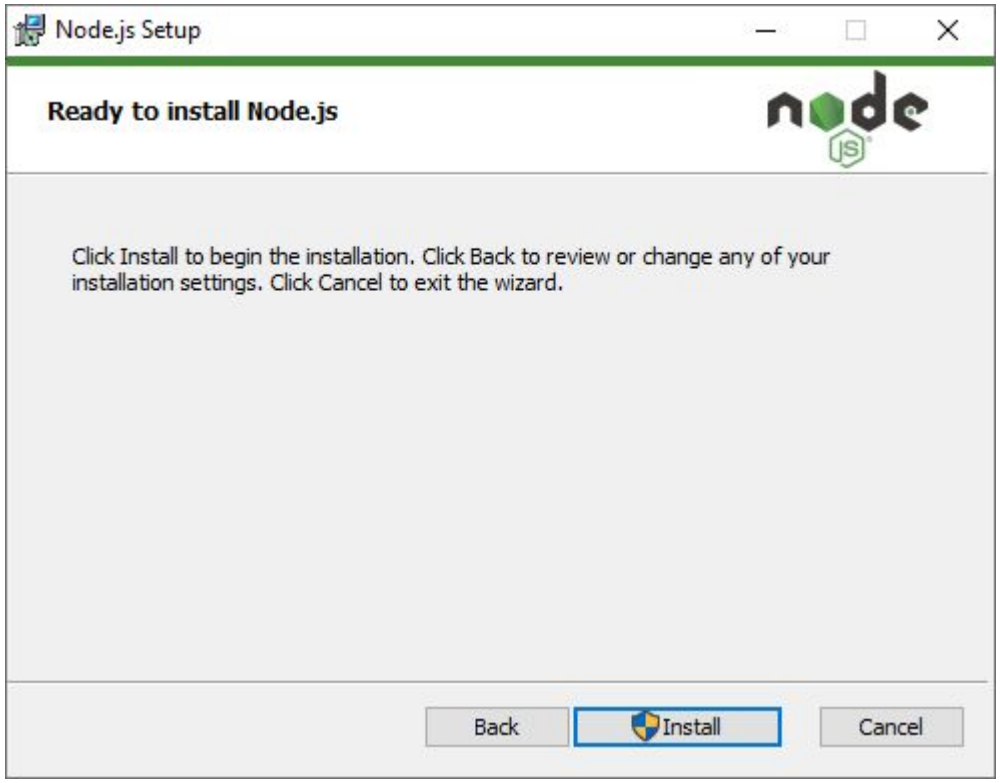
Instalação nodejs



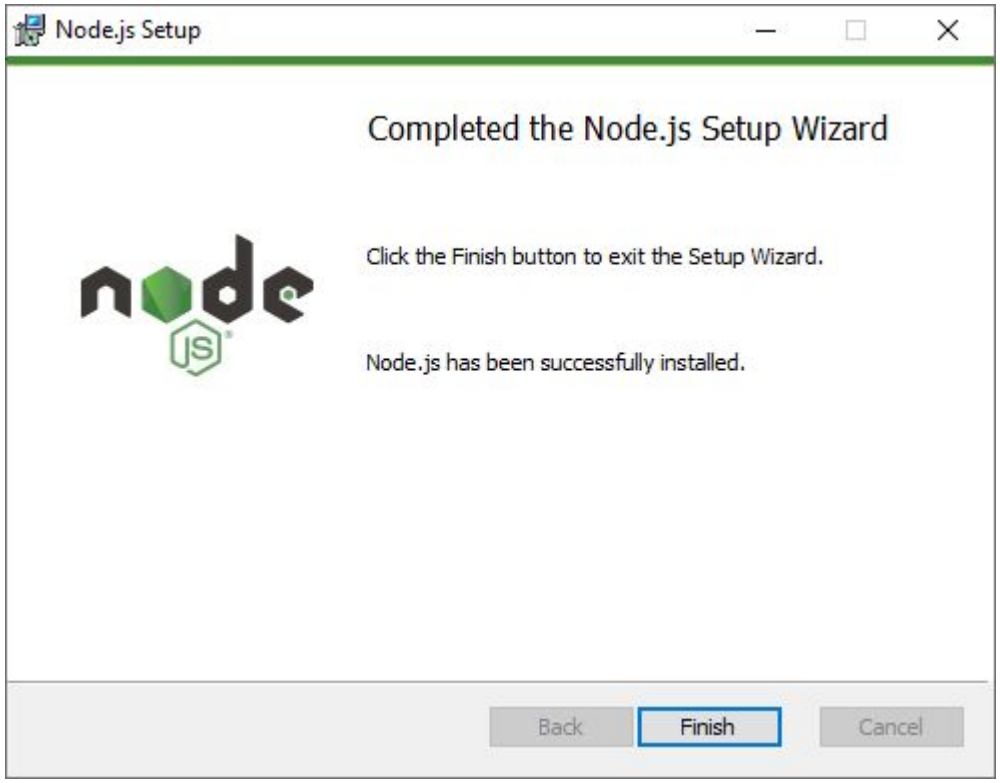
Instalação nodejs



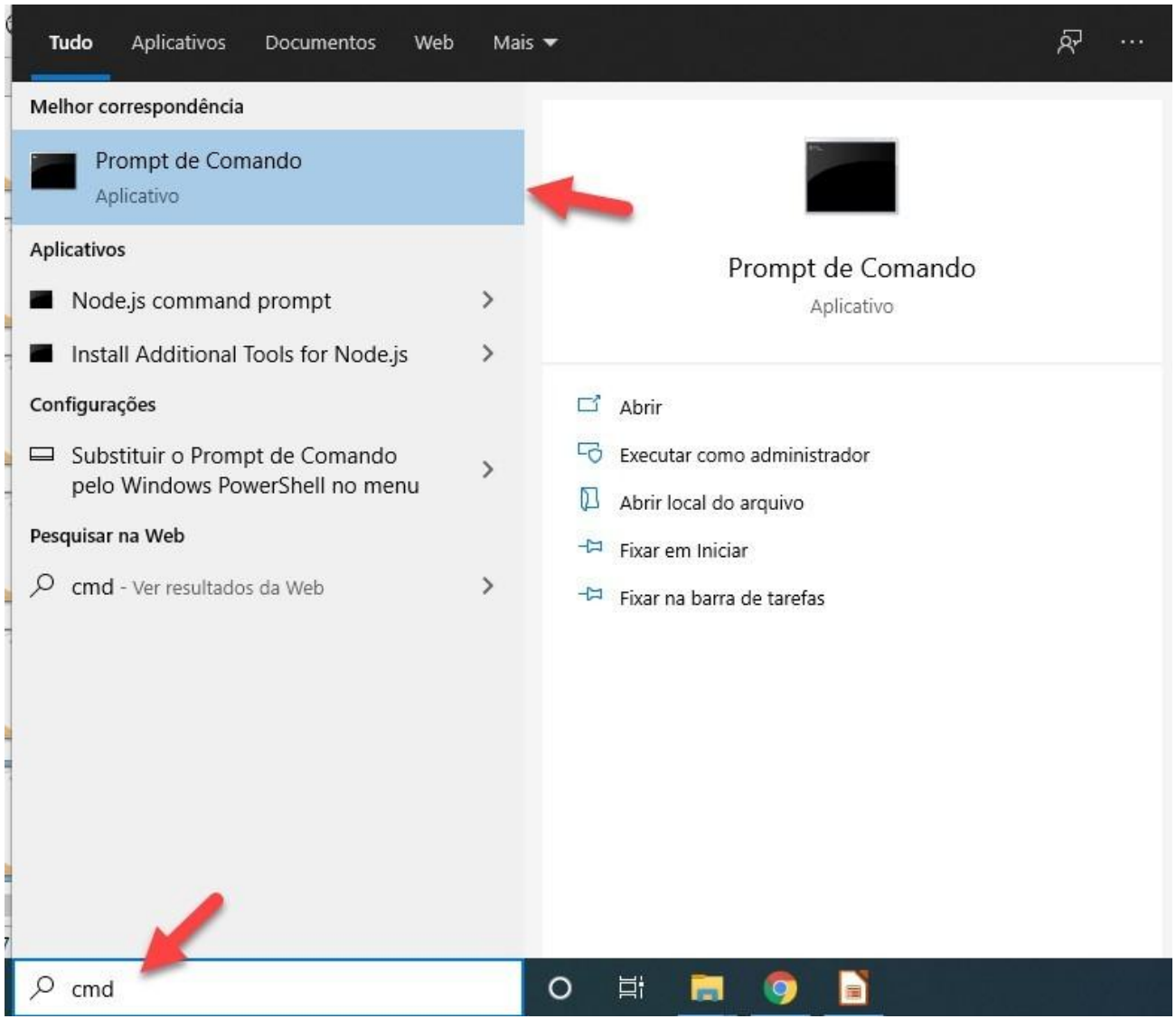
Instalação nodejs



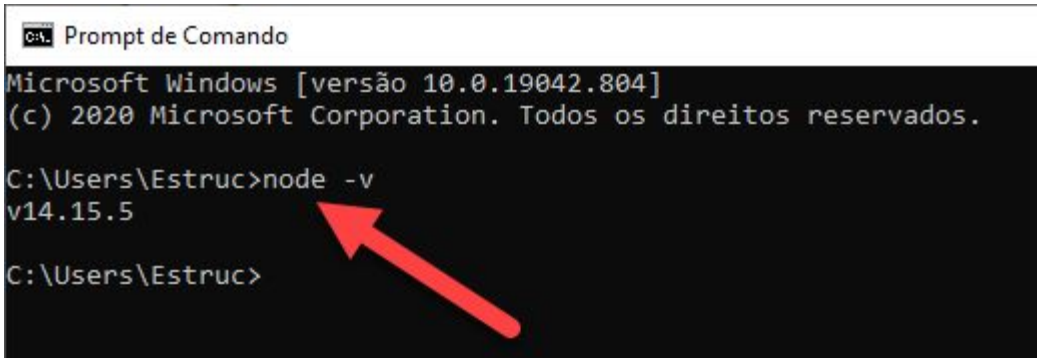
Instalação nodejs



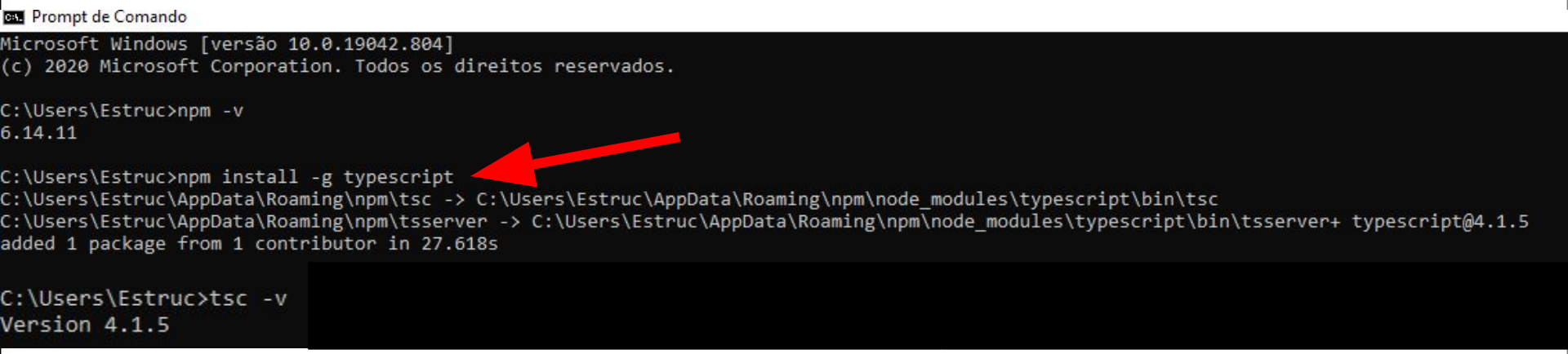
Instalação nodejs



Instalação nodejs



Instalação TypeScript



Compilando um arquivo TypeScript com tsc (somente faz o transpile)

1) Abra o bloco de notas e digite o código abaixo:
2) let nome:string
   console.log(“Informação no console”)

3) Salve o arquivo com o nome teste.ts

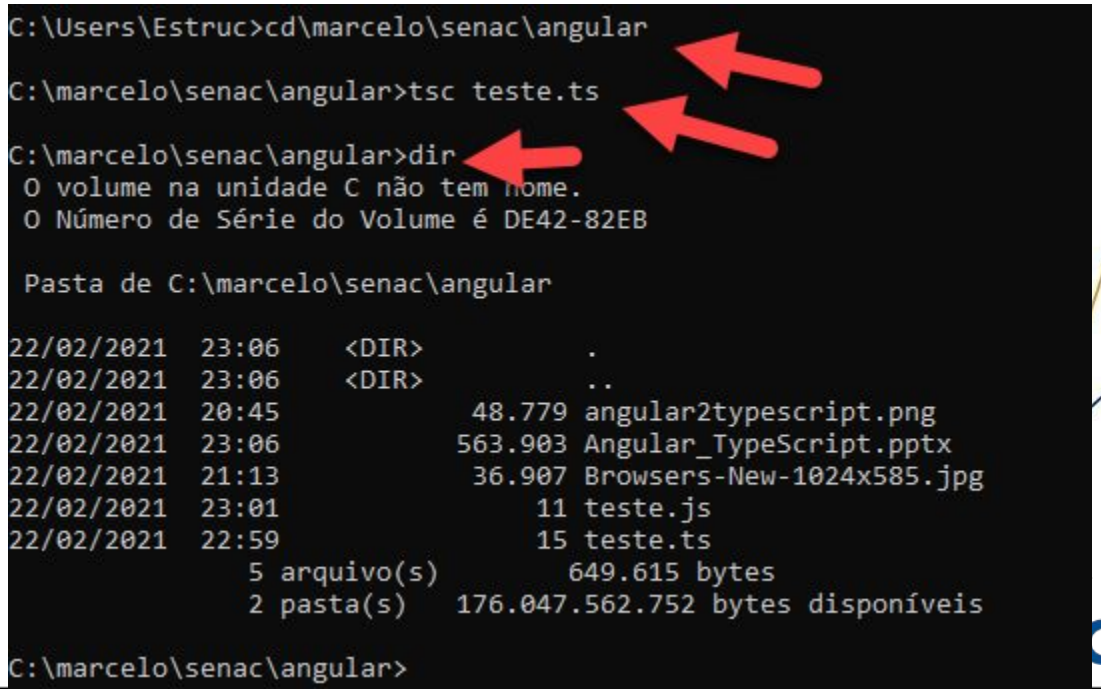
4) Abra a linha de comando (CMD)

5) Vá para o diretório que o arquivo teste.ts foi criado

6) Digite tsc teste.ts

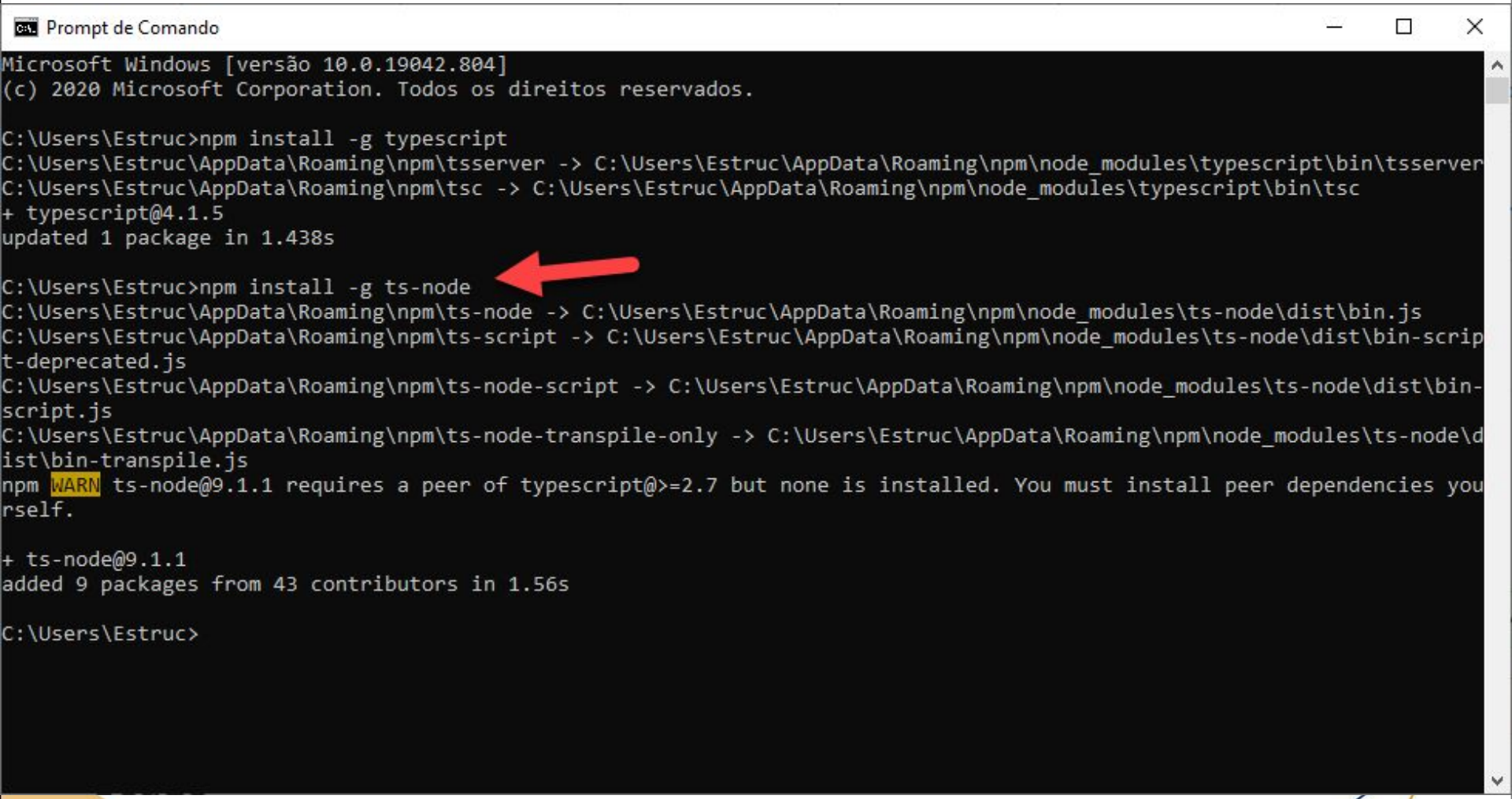
7) Abra a pasta que esta o seu arquivo
8) teste.ts pelo windows explorer

9) Encontre o arquivo teste.js



Instalação ts-node

Ele faz o transpile e executa



Compilando um arquivo TypeScript com ts-node (faz o transpile executa o typescript)

1) Abra o bloco de notas e digite o código abaixo:
   let nome:string
   console.log(“teste”)

2) Salve o arquivo com o nome teste2.ts

3) Abra a linha de comando (CMD)

4) Vá para o diretório que o arquivo teste2.ts foi criado

5) Digite ts-node teste.ts

6) Abra a pasta que esta o seu arquivo teste2.ts pelo windows explorer

7) Encontre o arquivo teste2.js

Com isso, aprendemos que podemos utilizar o tsc quanto ts-node nos arquivos typescript

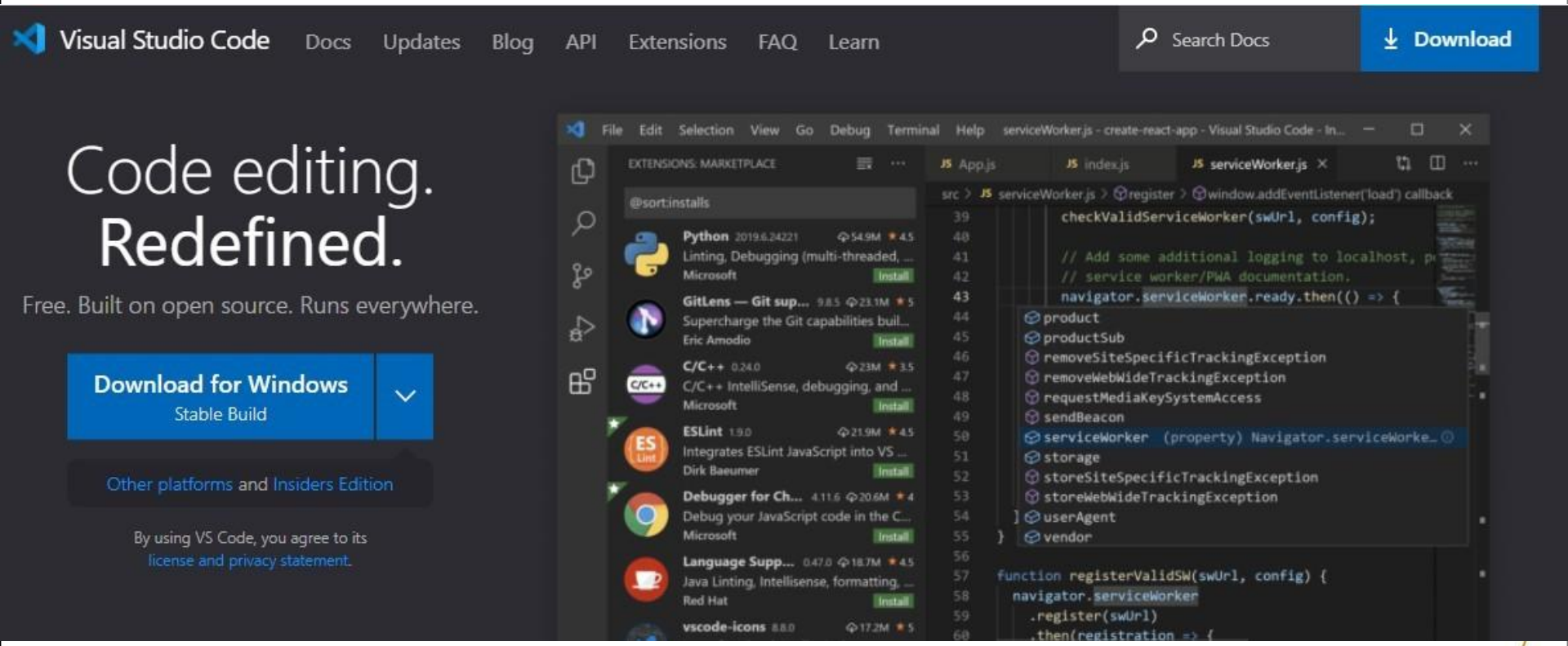
Se quisermos executar um javascript com o node basta chama

como exemplo

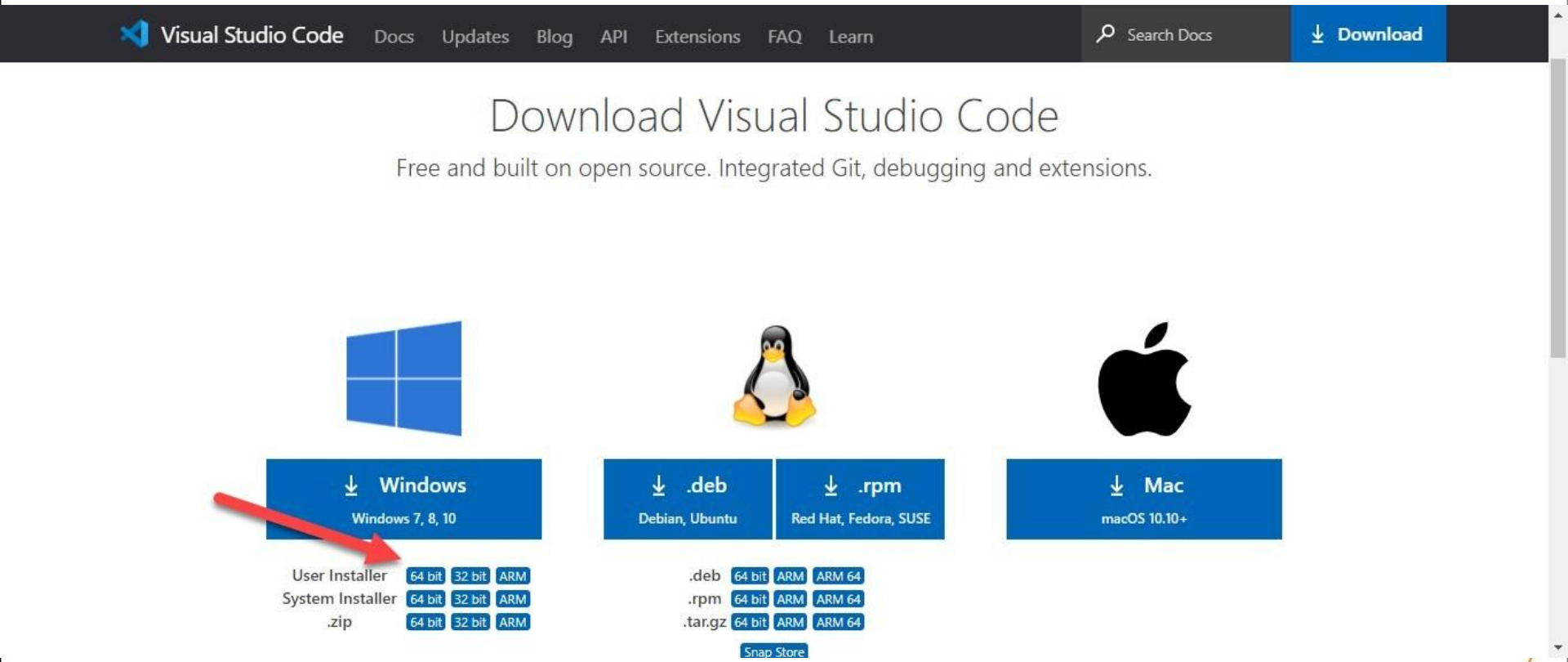
node tese2.js (ou sem o .ts)

Instalação Visual Studio Code

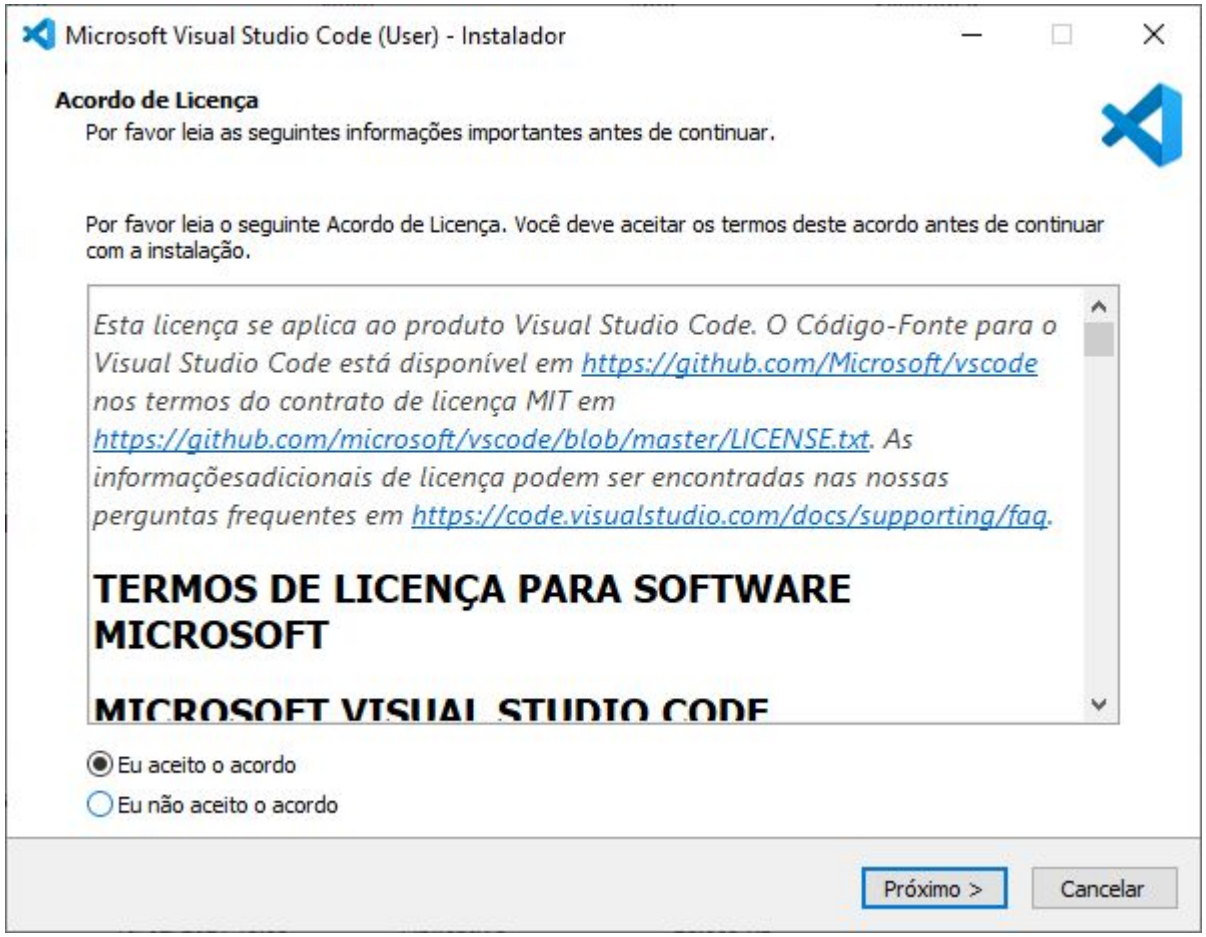
https://code.visualstudio.com/



Instalação Visual Studio Code



Instalação Visual Studio Code



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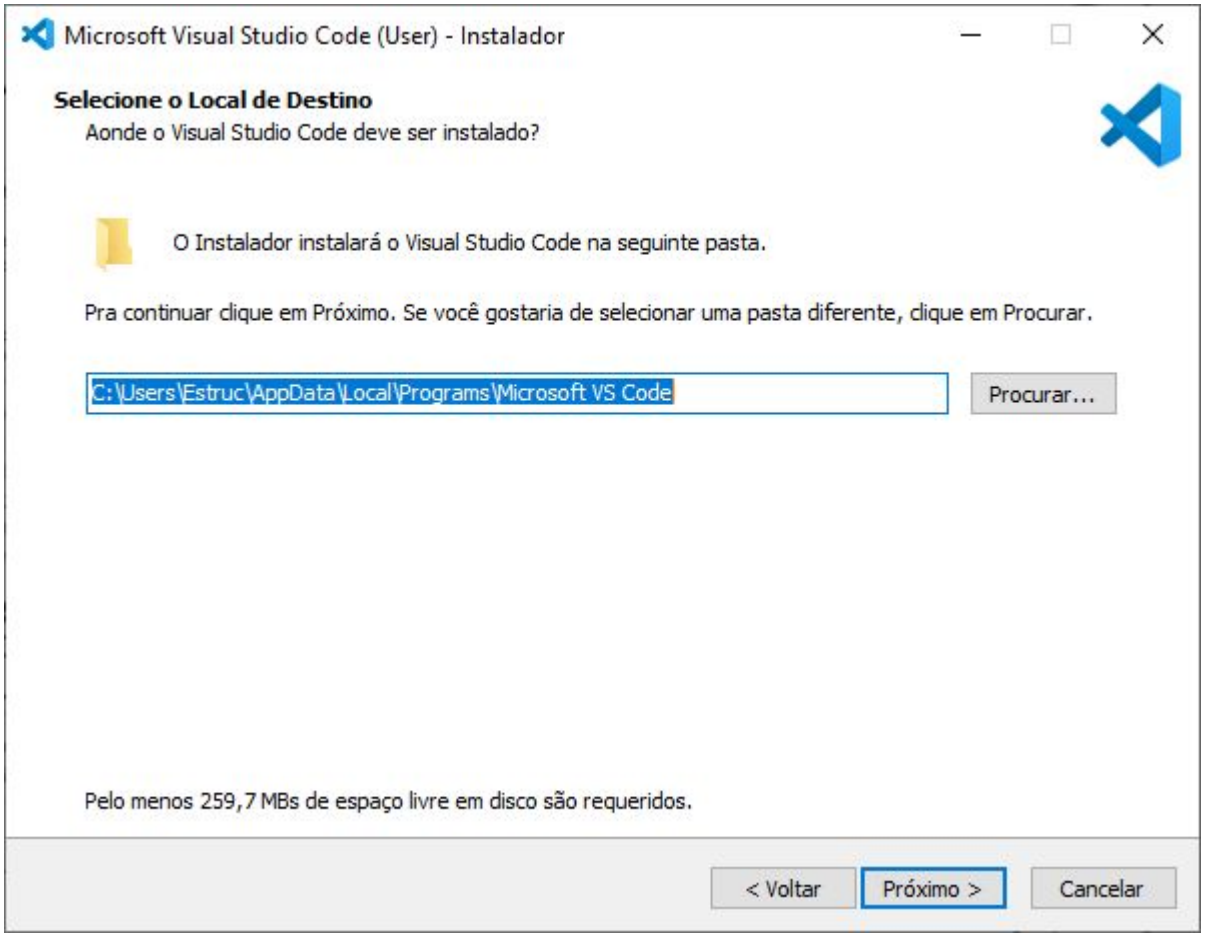
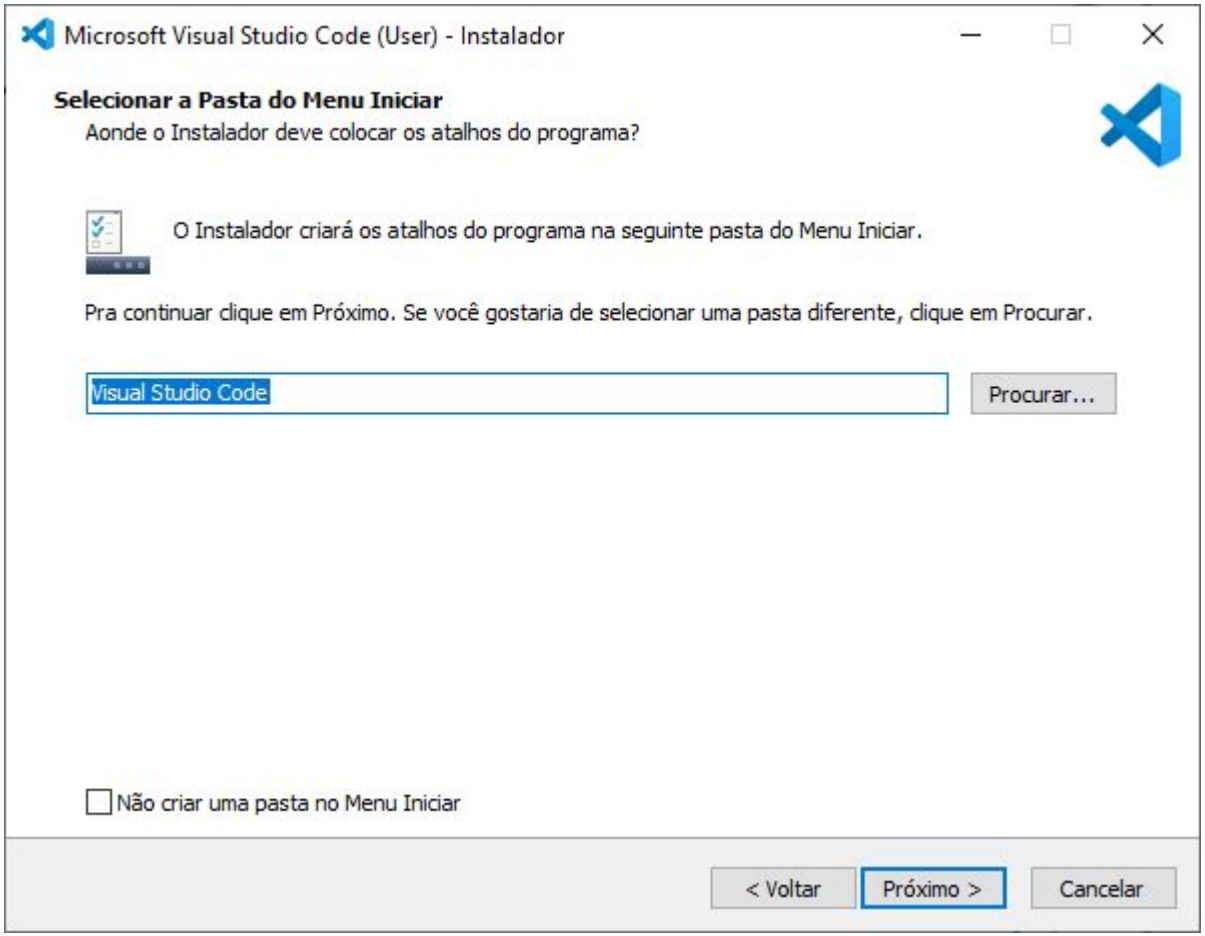
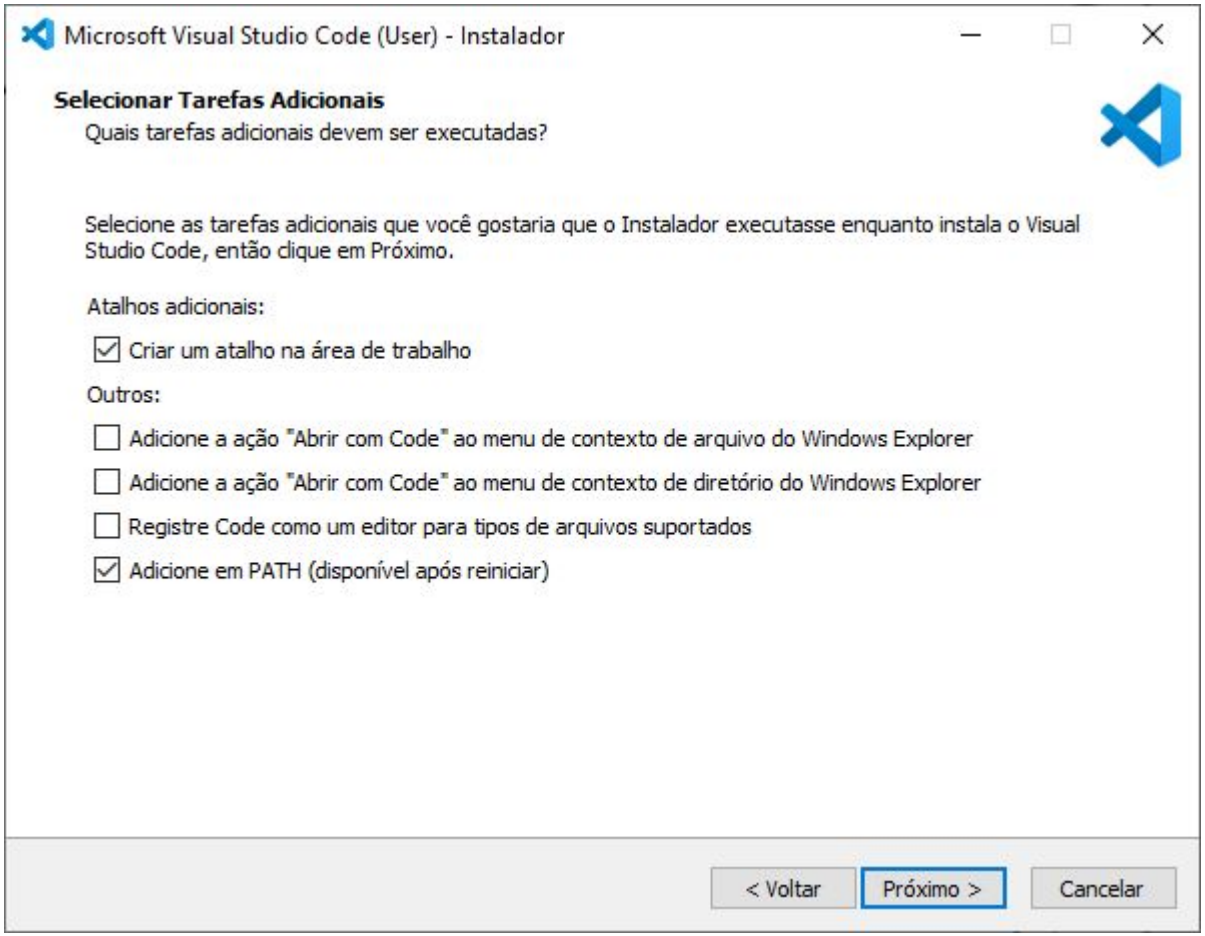


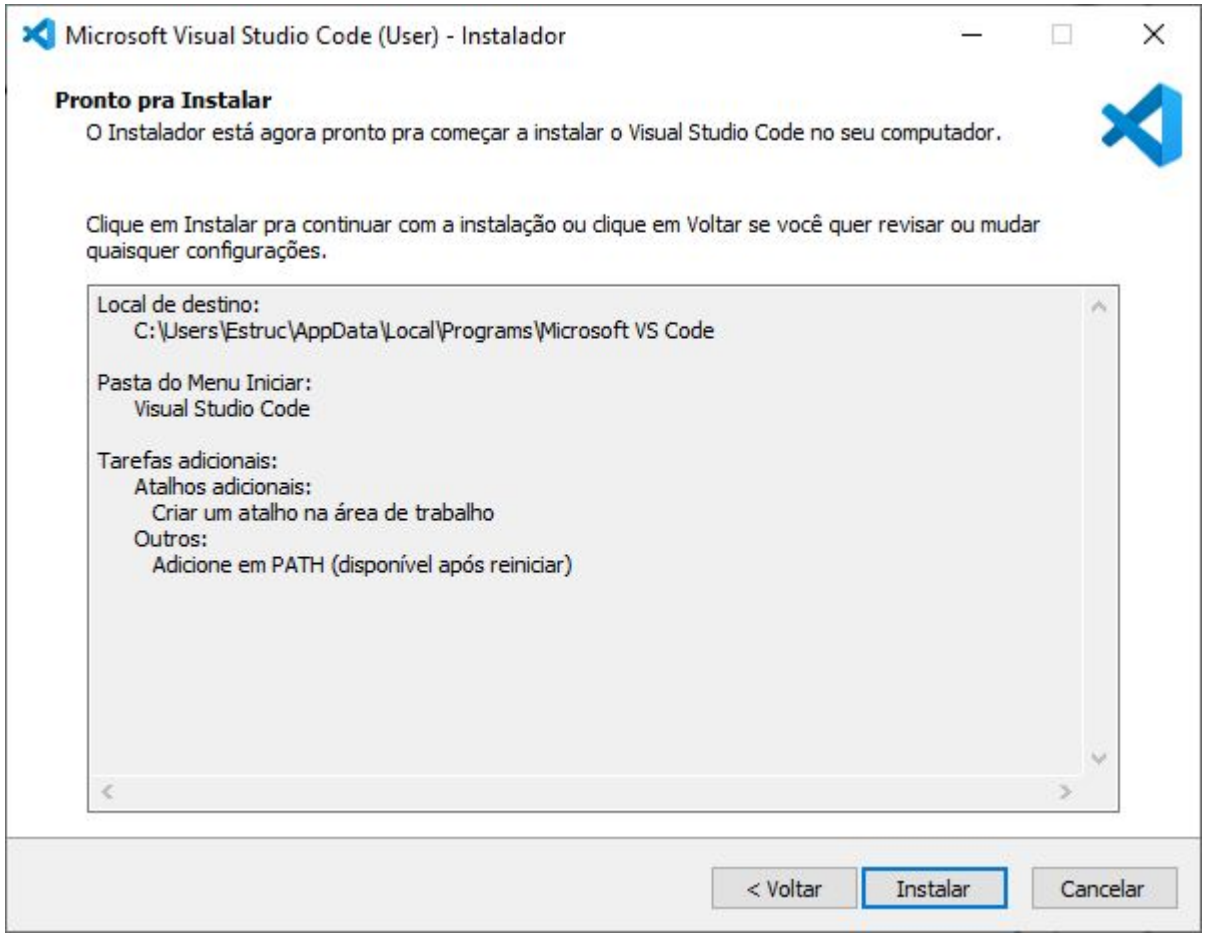
Instalação Visual Studio Code



Instalação Visual Studio Code



Instalação Visual Studio Code



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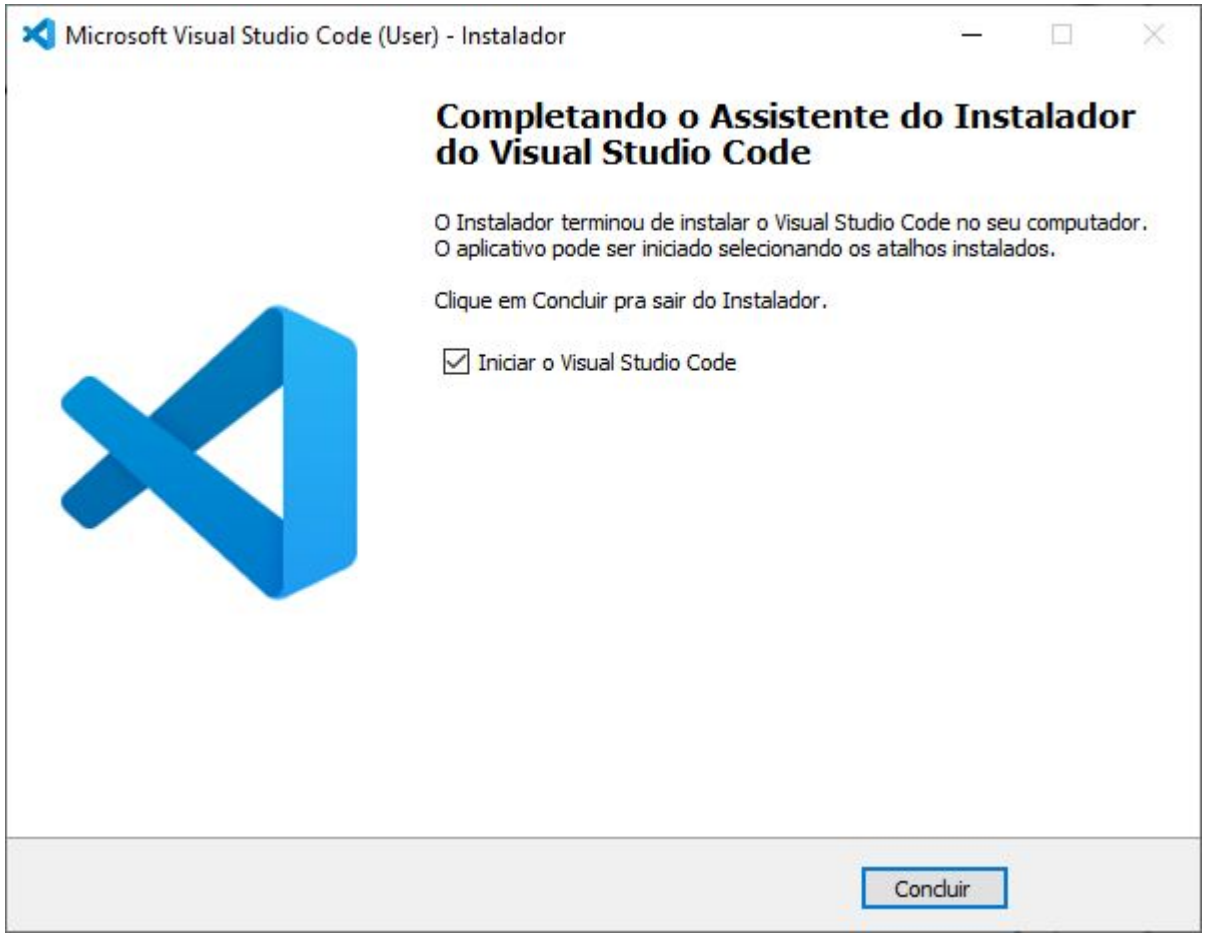
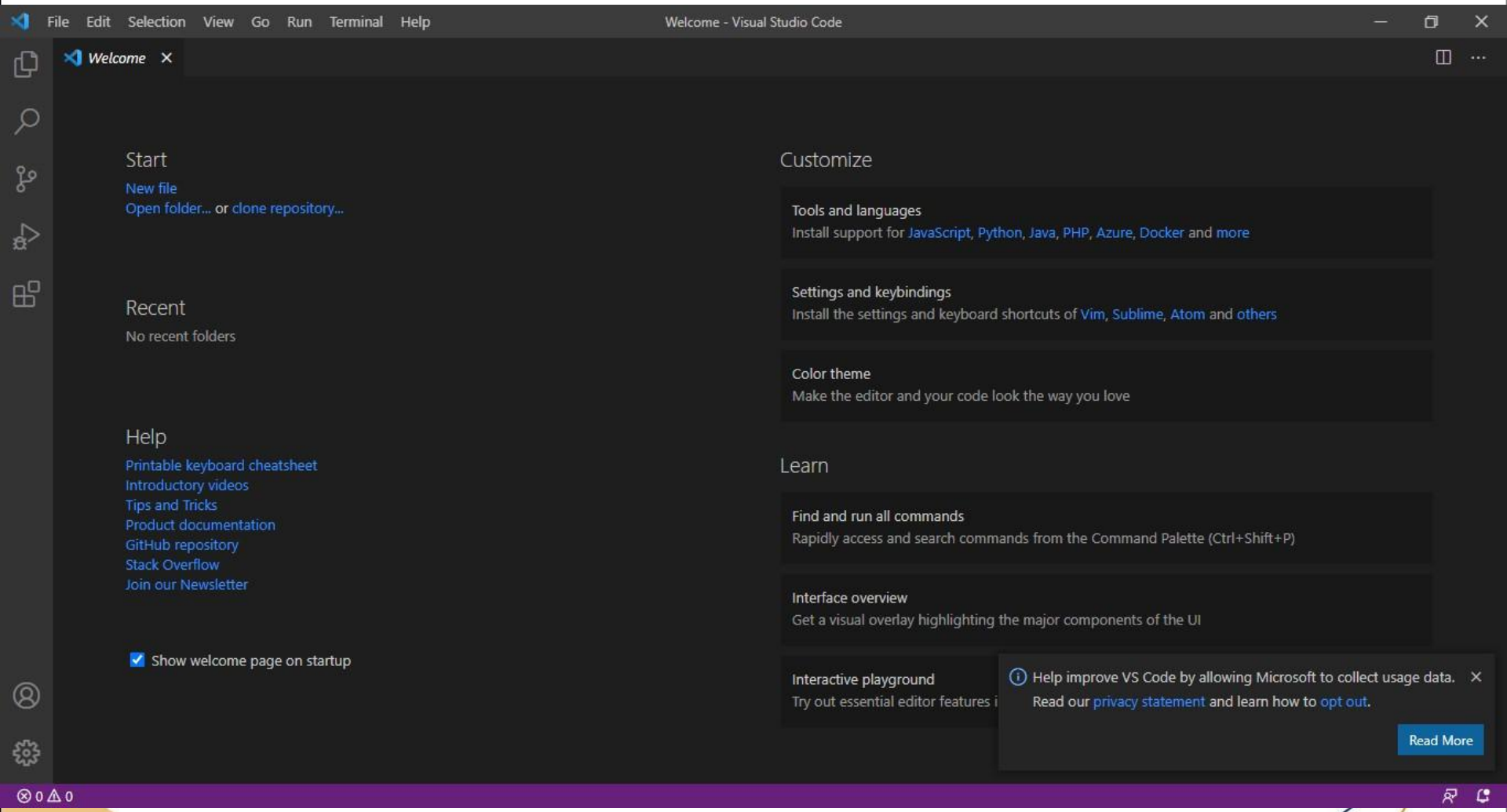
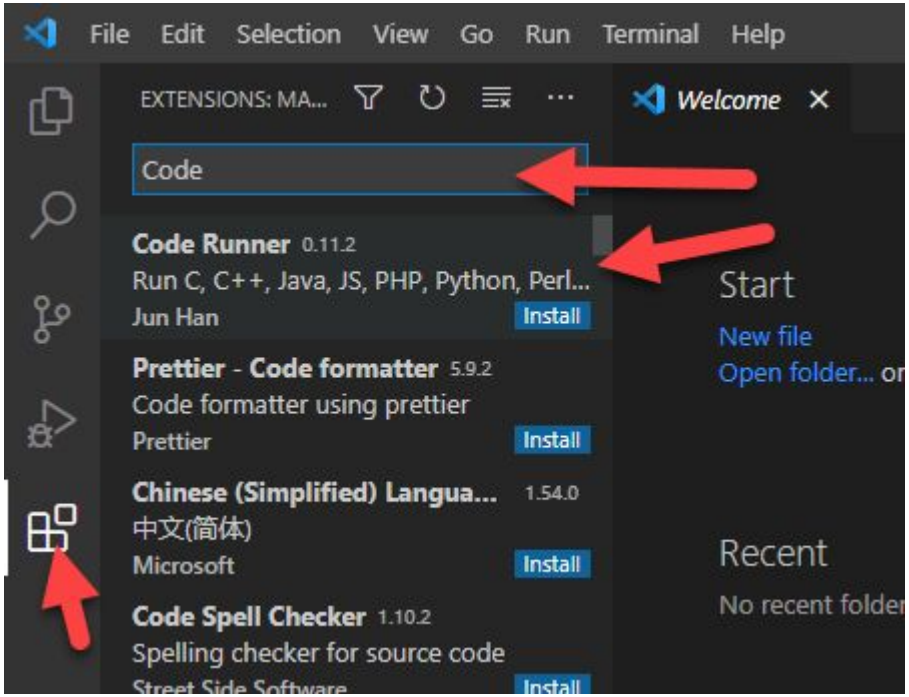


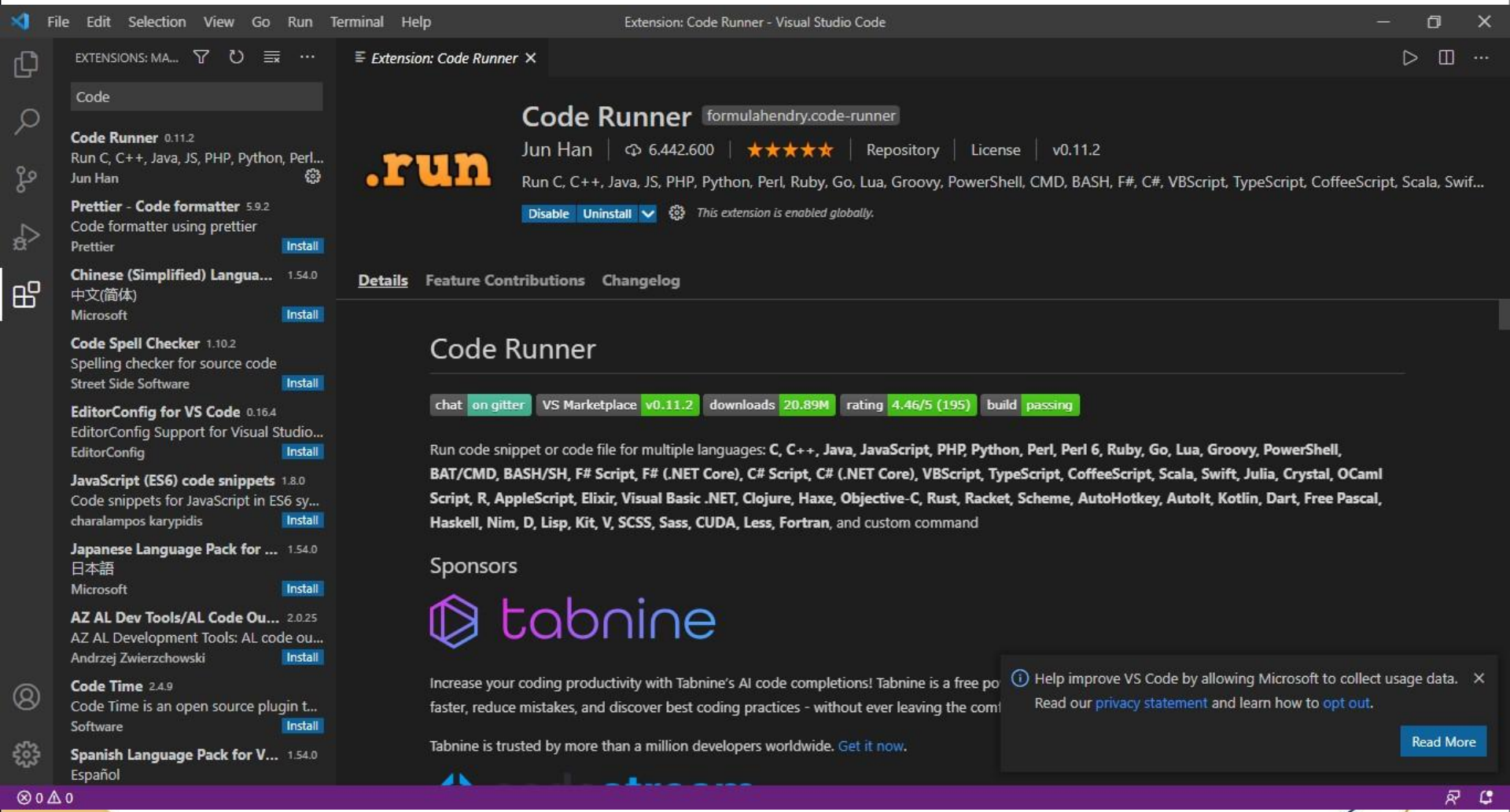
Instalação Visual Studio Code



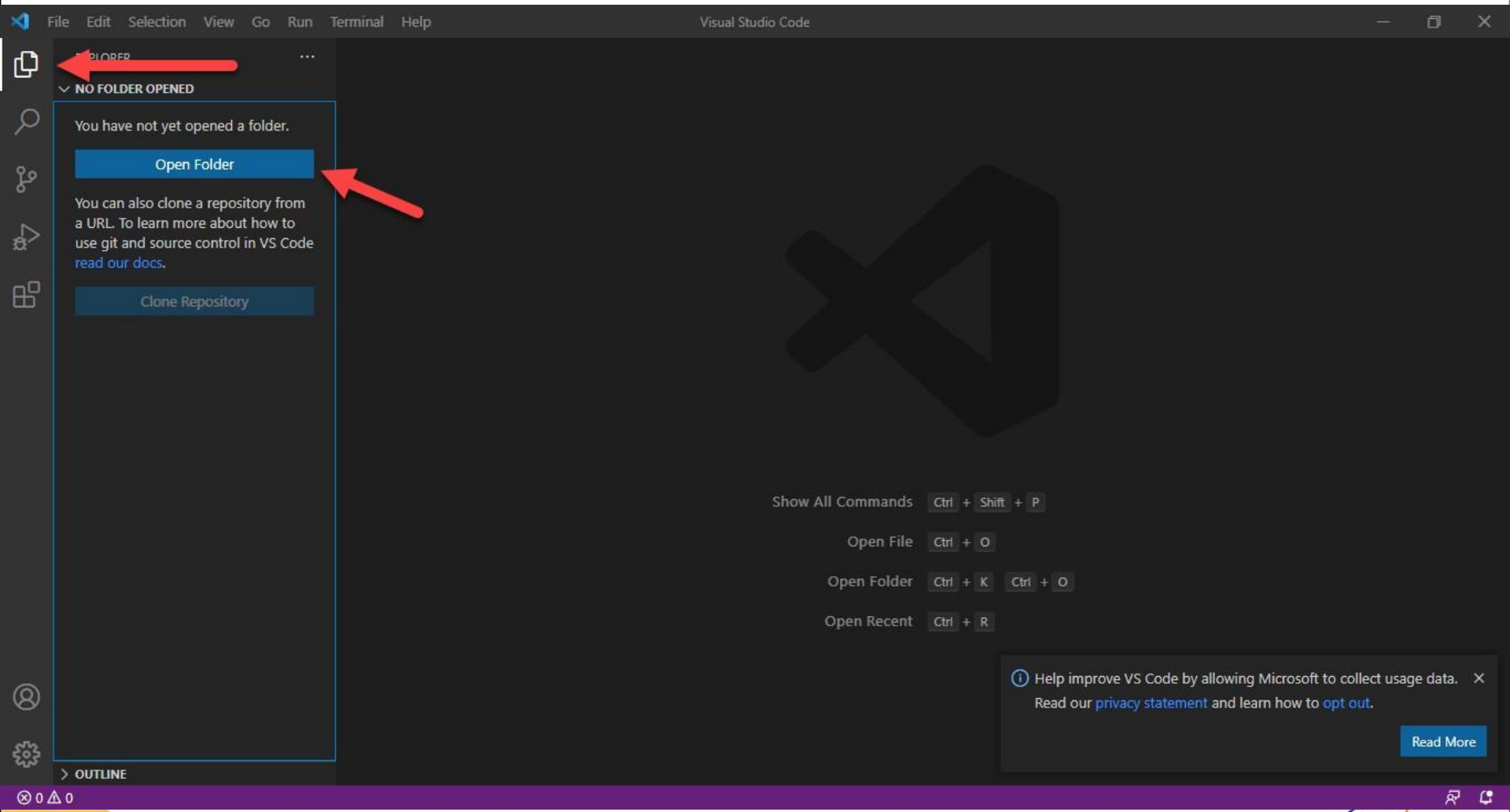
Instalação Code Runner



Instalação Code Runner

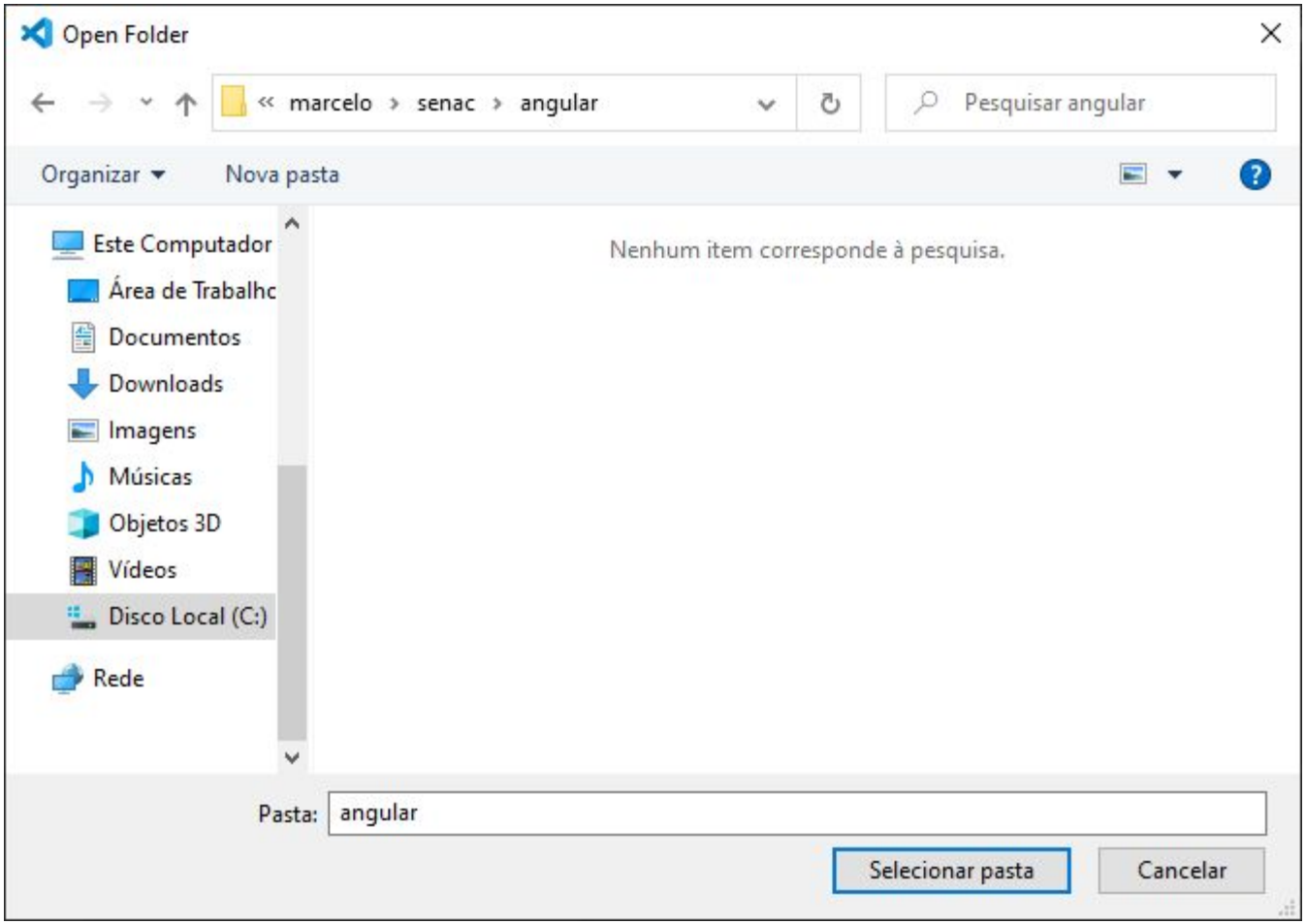


Testando VSC com Code Runner

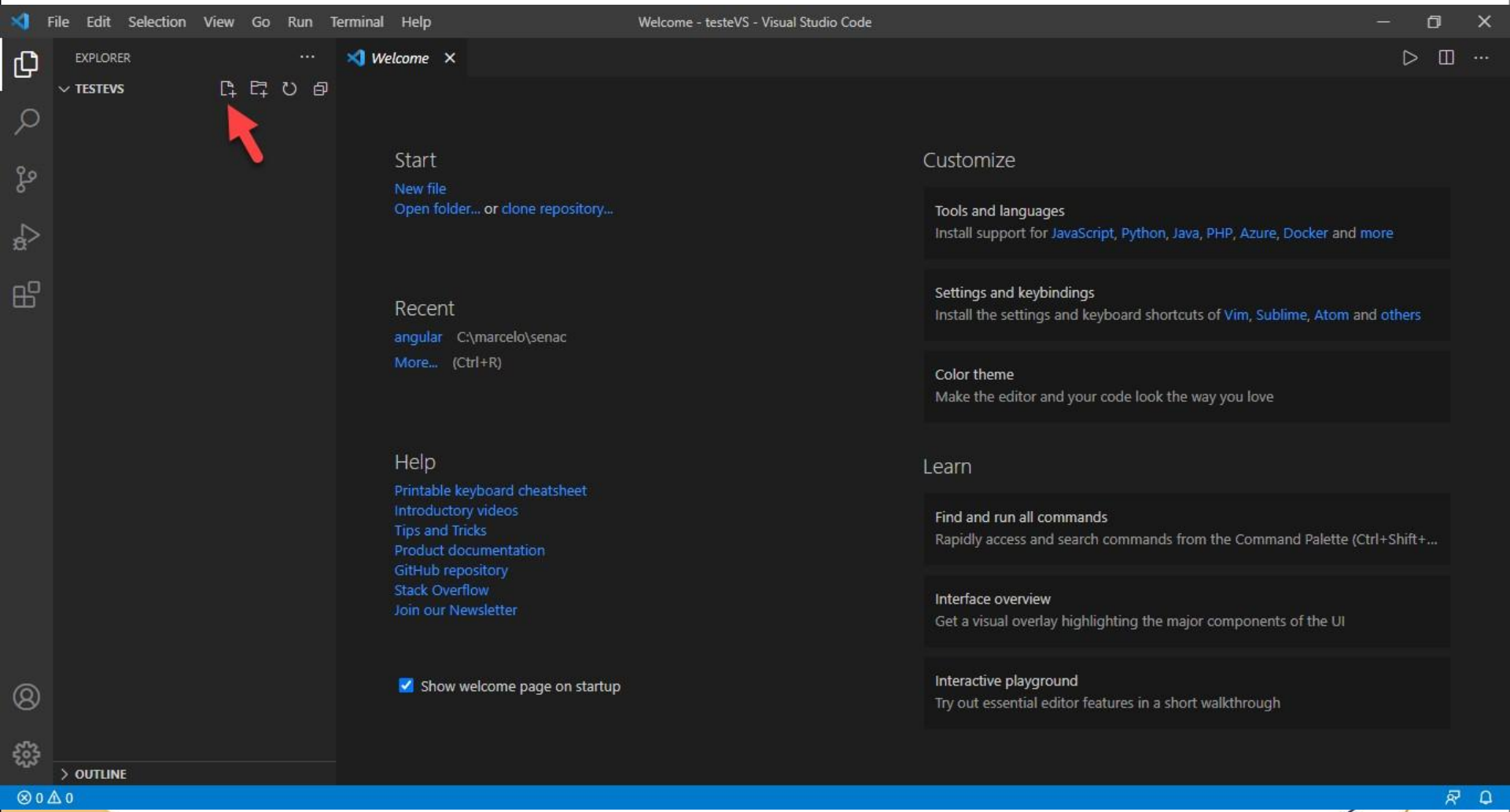


Testando VSC com Code Runner

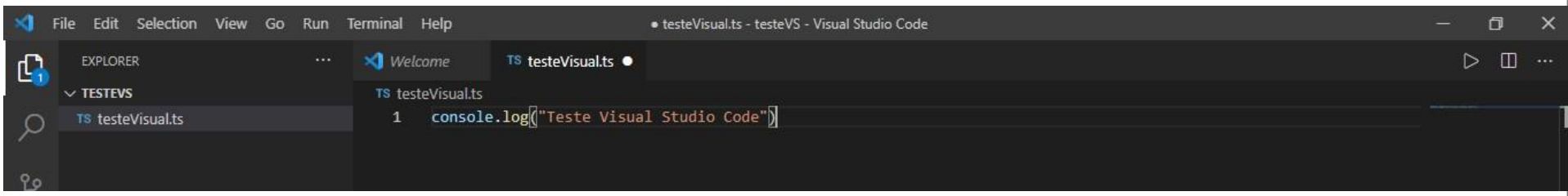
Escolha uma pasta



Testando VSC com Code Runner

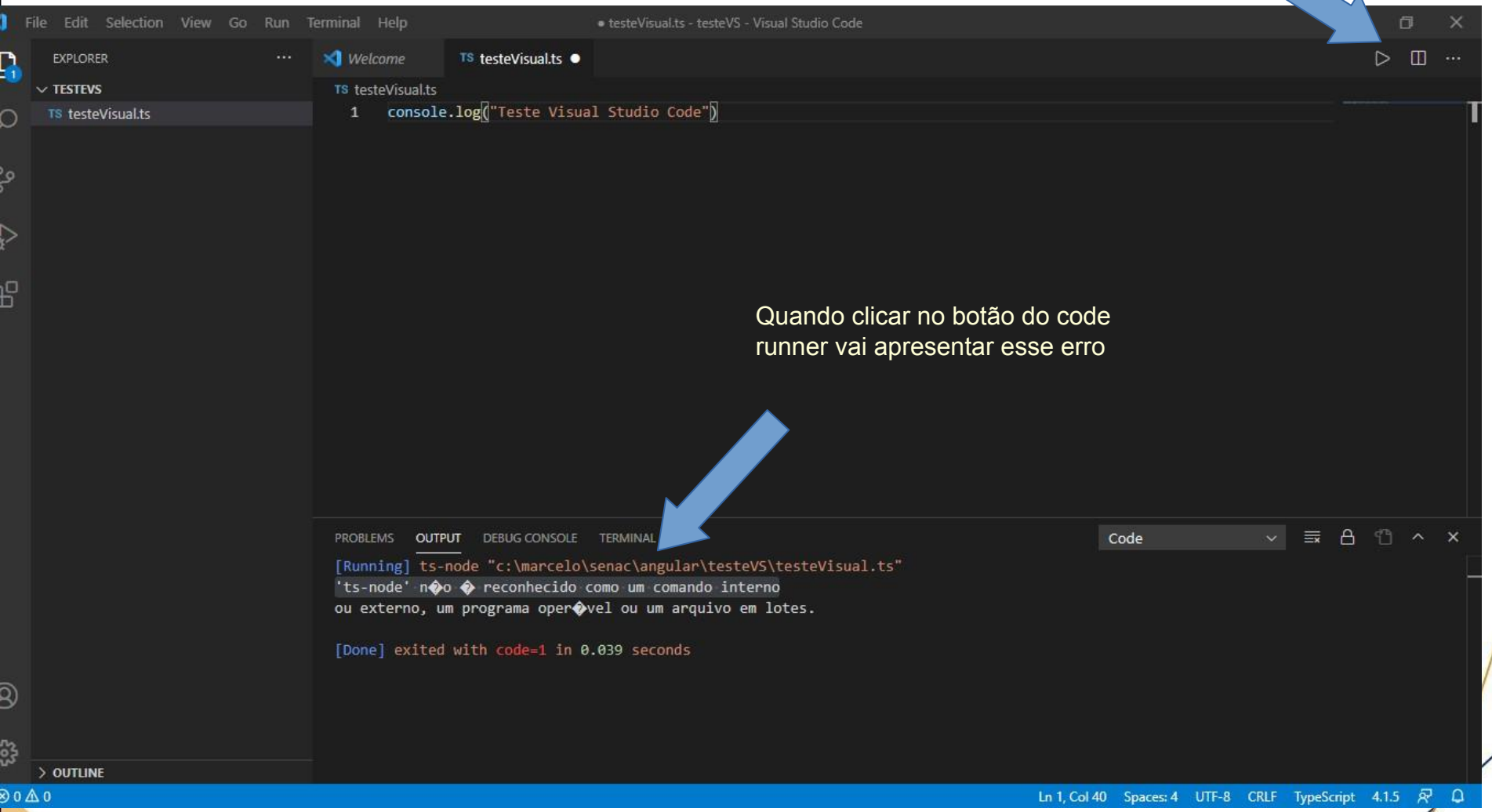


Testando VSC com Code Runner



Testando VSC com Code Runner

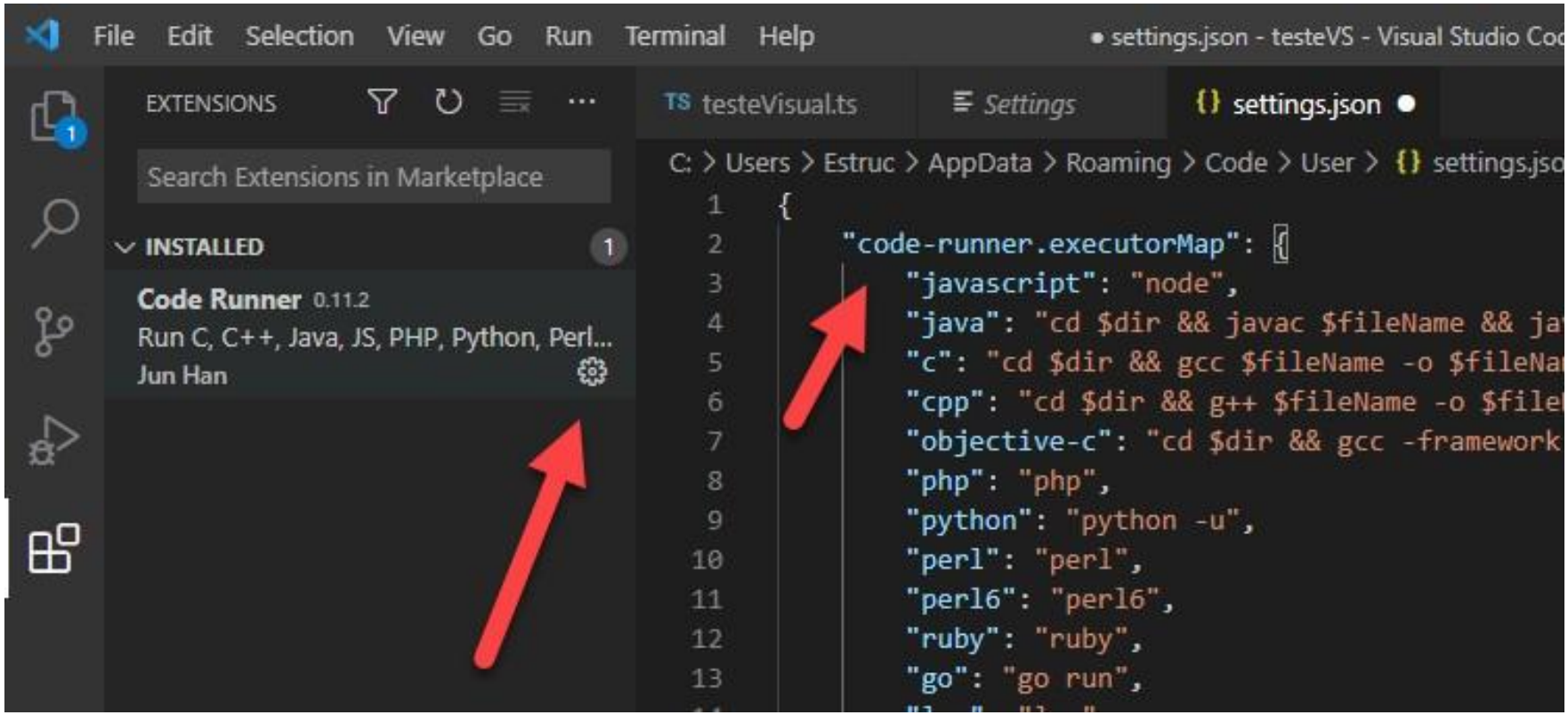
Se executar, vai dar erro. Precisamos configurar o Code Runner para executar o TypeScript

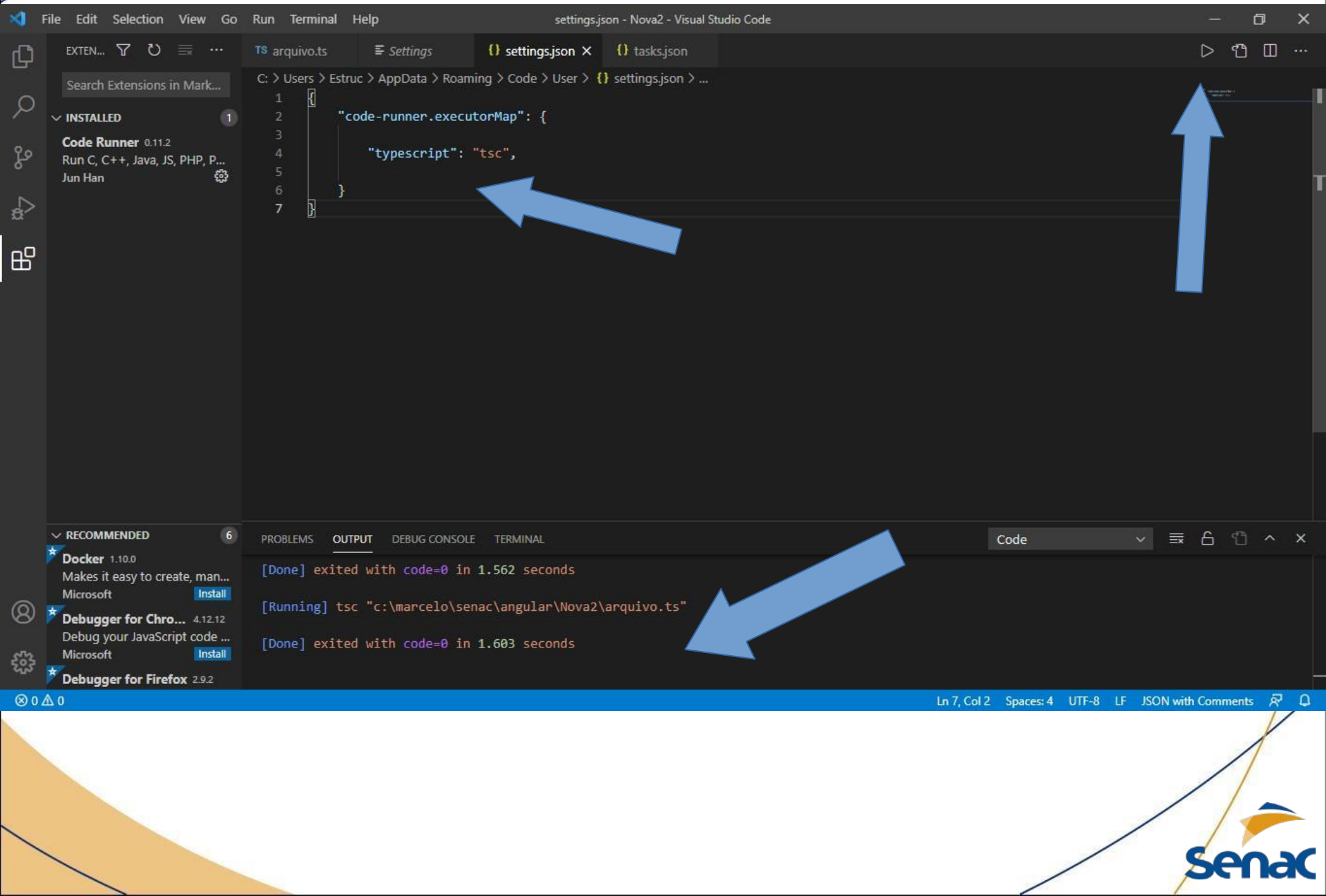


Quando clicar no botão do code runner vai apresentar esse erro

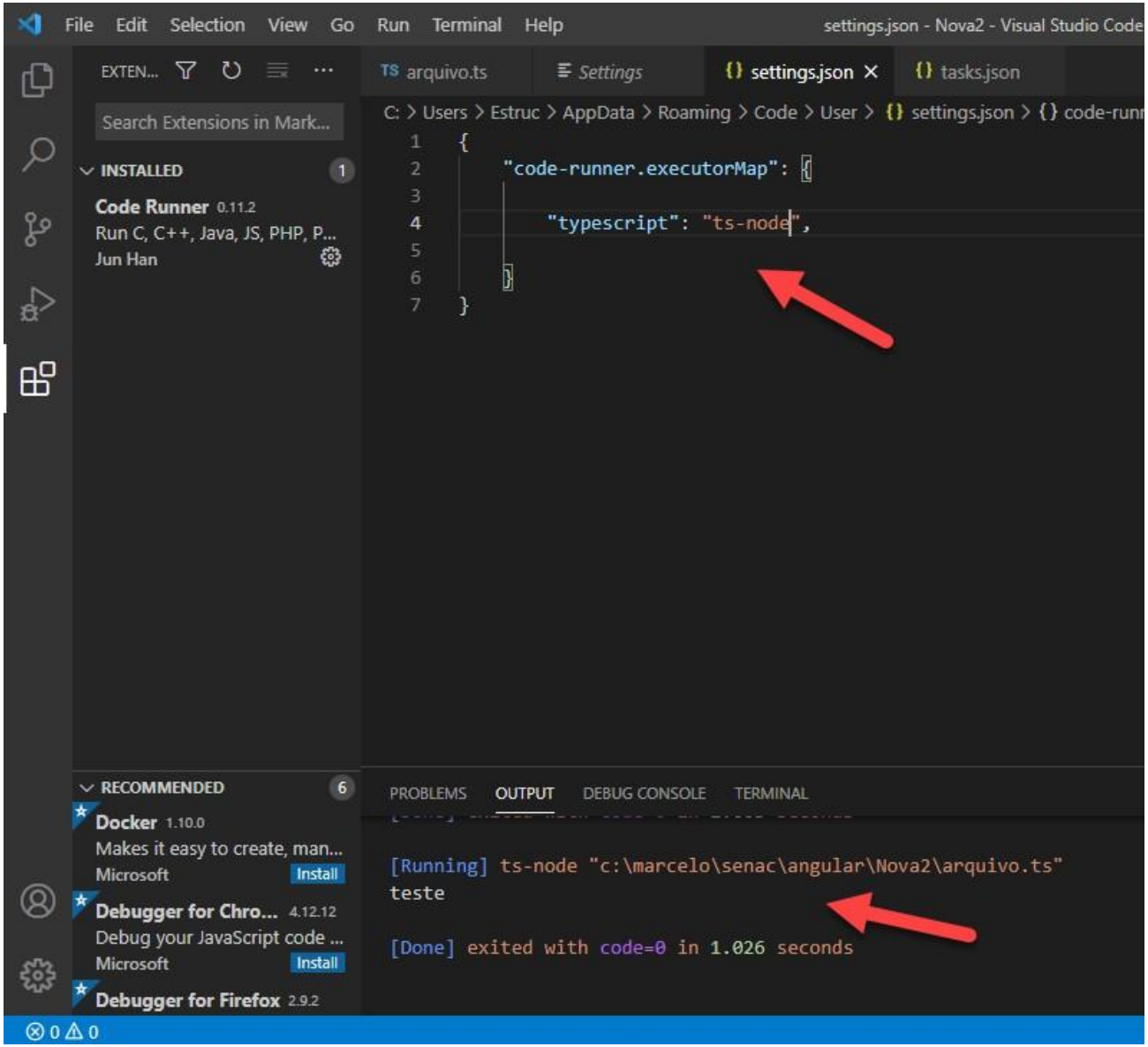
Testando VSC com Code Runner

Vamos configurar como o code runner deve executar o typescript




File Edit Selection View Go Run Terminal Help
settings.json - Nova2 - Visual Studio Code
EXTEN...
Search Extensions in Mark...
INSTALLED 1
Code Runner 0.11.2
Run C, C++, Java, JS, PHP, P...
Jun Han
RECOMMENDED 6
Docker 1.10.0
Makes it easy to create, man...
Microsoft Install
Debugger for Chro... 4.12.12
Debug your JavaScript code ...
Microsoft Install
Debugger for Firefox 2.9.2
arquivo.ts
Settings
settings.json
tasks.json
C: > Users > Estruc > AppData > Roaming > Code > User > settings.json > ...
1 {
2 "code-runner.executorMap": {
3
4 "typescript": "tsc",
5
6 }
7 }
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Code
[Done] exited with code=0 in 1.562 seconds
[Running] tsc "c:\marcelo\senac\angular\Nova2\arquivo.ts"
[Done] exited with code=0 in 1.603 seconds
⊗ 0 ⚠ 0
Ln 7, Col 2 Spaces: 4 UTF-8 LF JSON with Comments

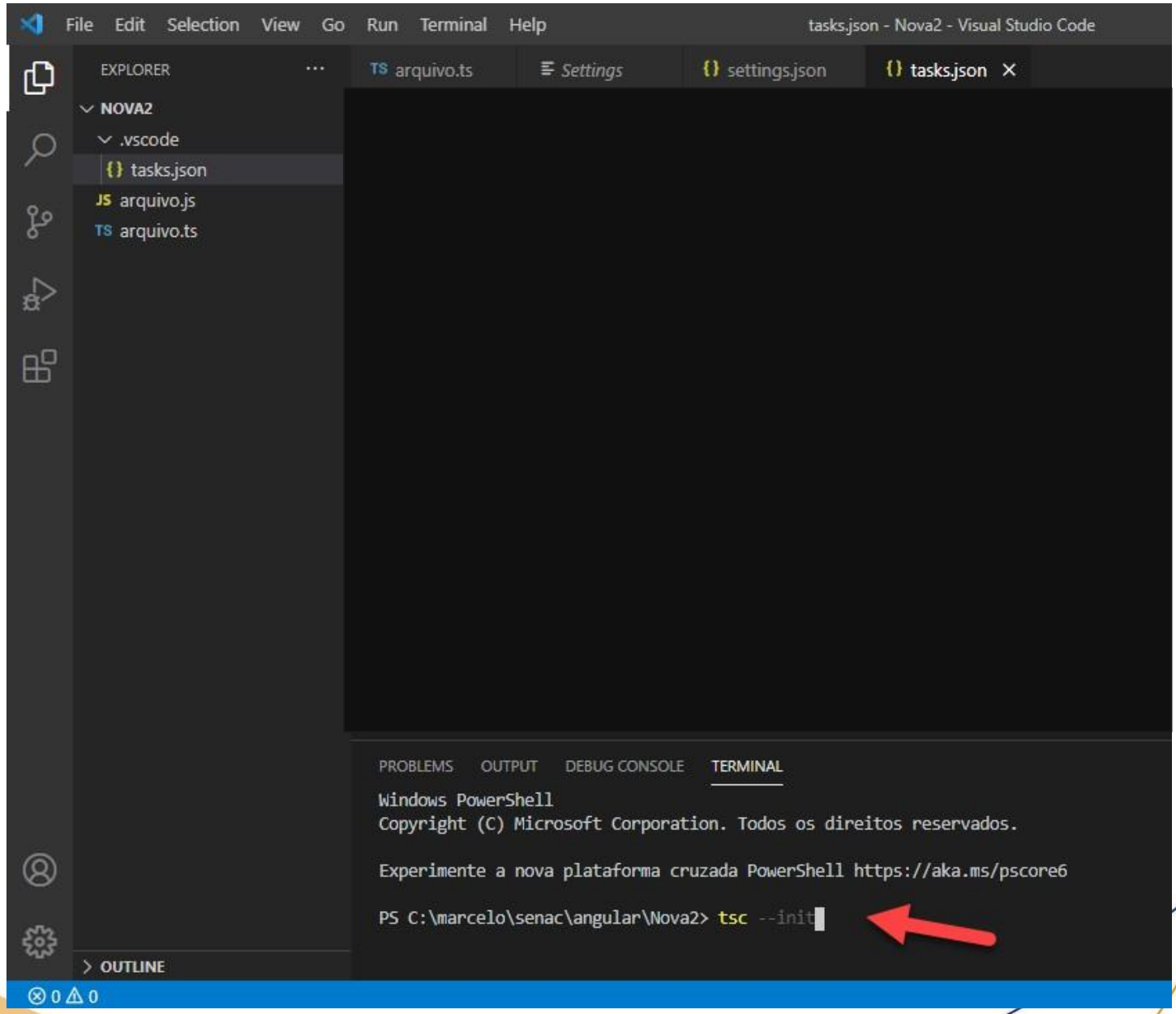
Agora usando o ts-node



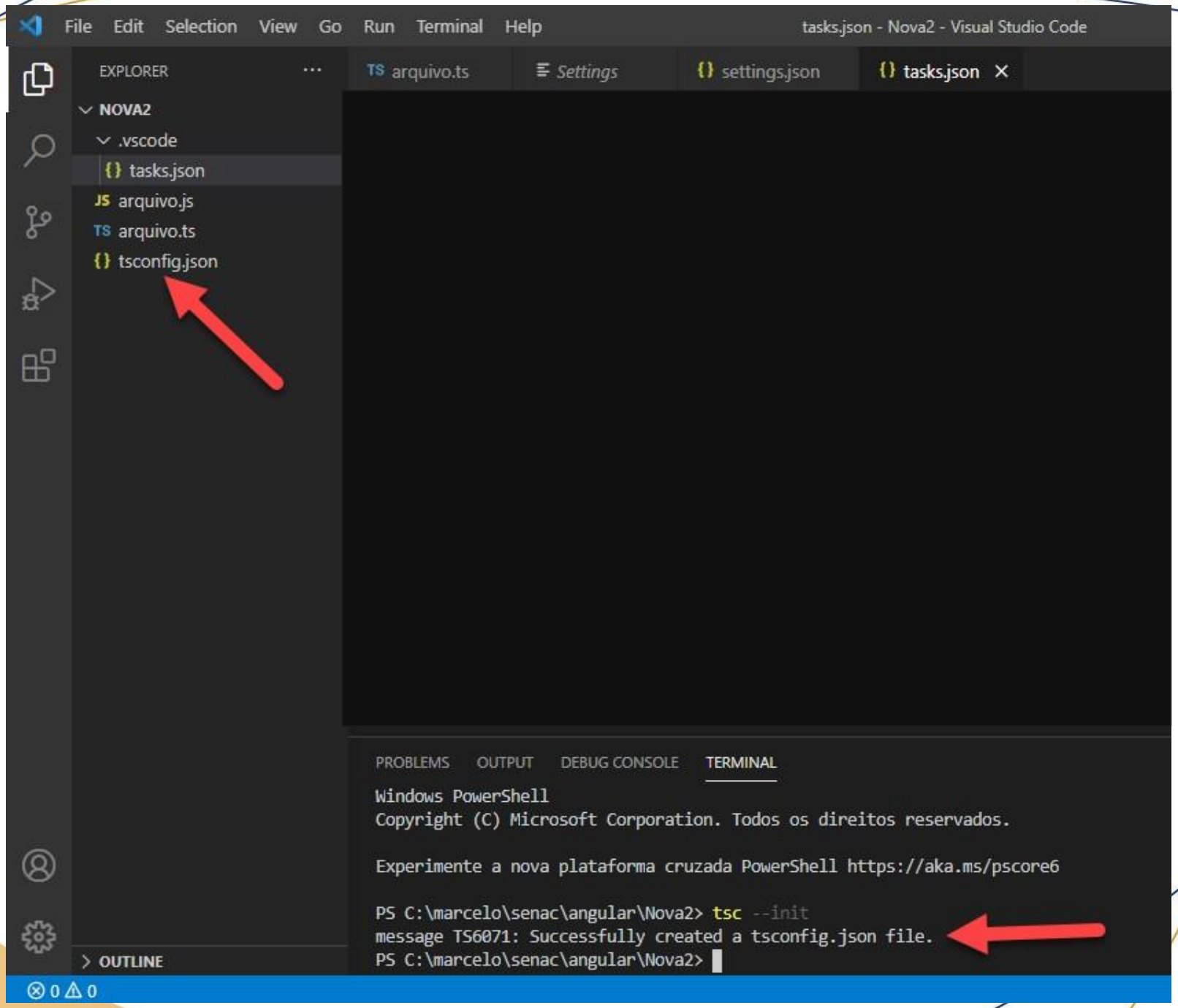
Importante lembrar que só irá fazer o transpile caso seja digitado no cmd tsc -w

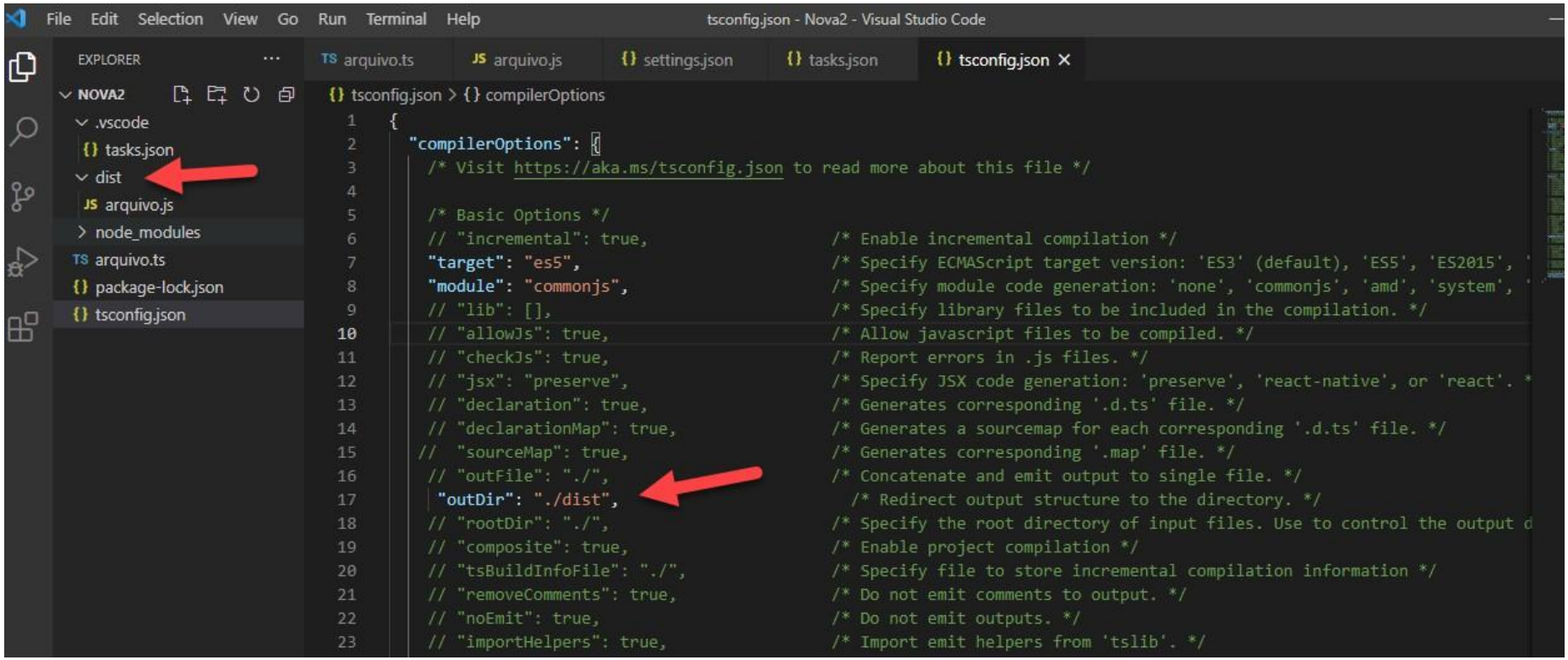
Criando um projeto em TypeScript

Criando um arquivo de configuração do typescript

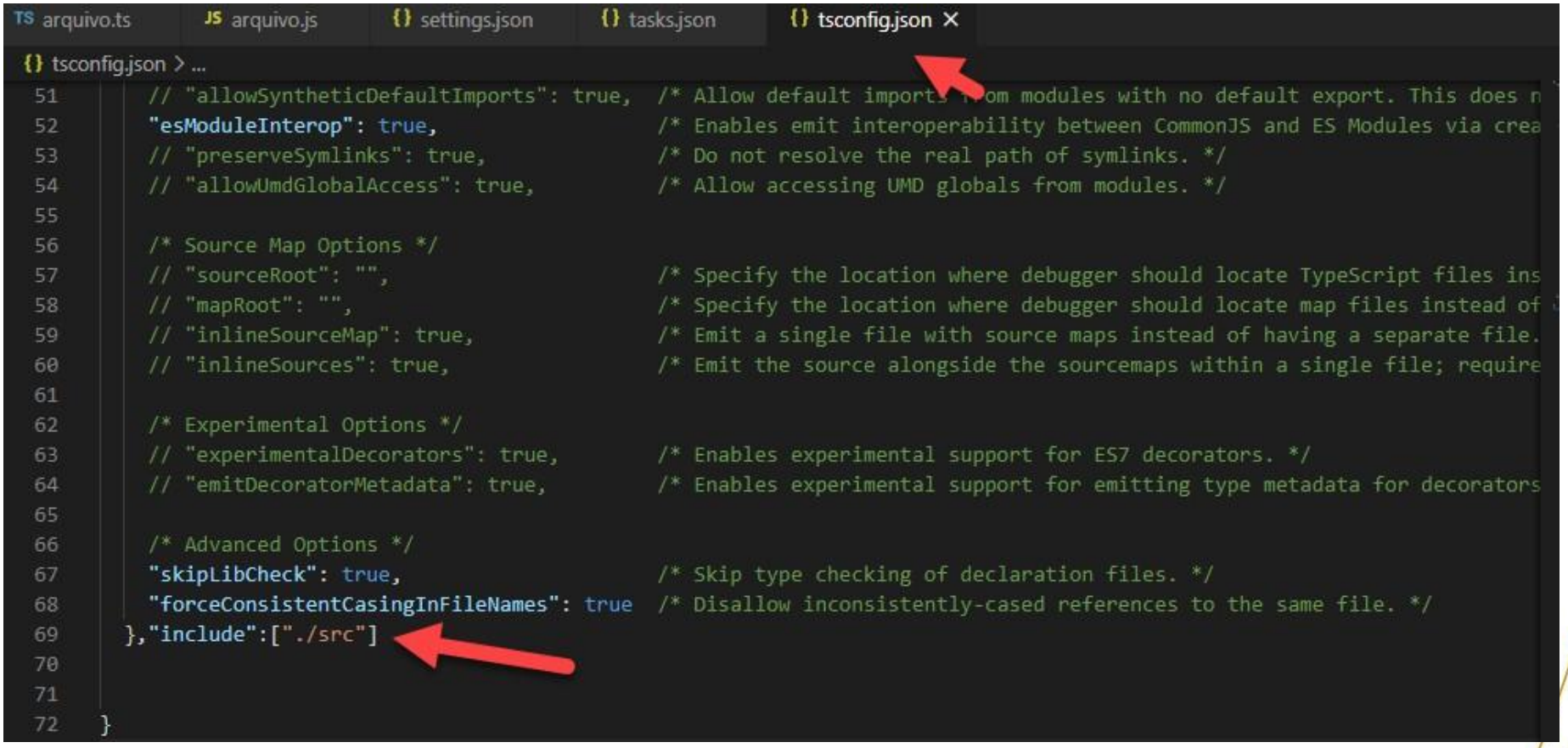


Fazer o comando tsc –w
E explicar para que serve

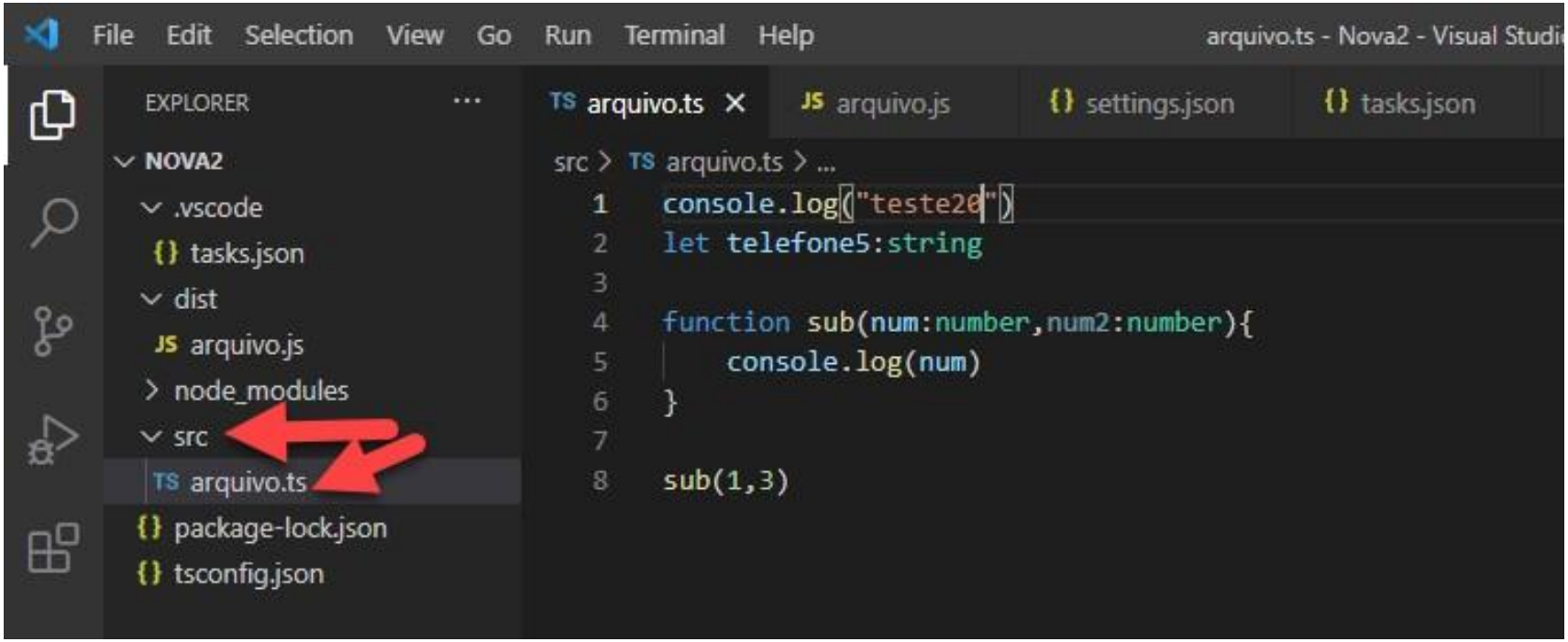

File Edit Selection View Go Run Terminal Help
tasks.json - Nova2 - Visual Studio Code
EXPLORER
NOVA2
.vscode
tasks.json
arquivo.js
arquivo.ts
tsconfig.json
arquivo.ts
Settings
settings.json
tasks.json
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
Windows PowerShell
Copyright (C) Microsoft Corporation. Todos os direitos reservados.
Experimente a nova plataforma cruzada PowerShell https://aka.ms/pscore6
PS C:\marcelo\senac\angular\Nova2> tsc --init
message TS6071: Successfully created a tsconfig.json file.
PS C:\marcelo\senac\angular\Nova2>
OUTLINE
0 0



Agora os arquivos gerados irão para a pasta dist


TS arquivo.ts
JS arquivo.js
{} settings.json
{} tasks.json
{} tsconfig.json
{} tsconfig.json > ...
// "allowSyntheticDefaultImports": true, /* Allow default imports from modules with no default export. This does n
"esModuleInterop": true, /* Enables emit interoperability between CommonJS and ES Modules via crea
// "preserveSymlinks": true, /* Do not resolve the real path of symlinks. */
// "allowUmdGlobalAccess": true, /* Allow accessing UMD globals from modules. */
/* Source Map Options */
// "sourceRoot": "", /* Specify the location where debugger should locate TypeScript files ins
// "mapRoot": "", /* Specify the location where debugger should locate map files instead of
// "inlineSourceMap": true, /* Emit a single file with source maps instead of having a separate file.
// "inlineSources": true, /* Emit the source alongside the sourcemaps within a single file; require
/* Experimental Options */
// "experimentalDecorators": true, /* Enables experimental support for ES7 decorators. */
// "emitDecoratorMetadata": true, /* Enables experimental support for emitting type metadata for decorators
/* Advanced Options */
"skipLibCheck": true, /* Skip type checking of declaration files. */
"forceConsistentCasingInFileNames": true /* Disallow inconsistently-cased references to the same file. */
},"include":["./src"]
}

Colocando o arquivo.ts na pasta src
E escrever essa primeira função



Praticar um pouco mais de função e colocar essas funções
No arquivo.ts

```ts
// function
function somar(x:number, y:number):number {
    return x + y;
}

// function anonima
let myAdd = function (x:number, y:number) {
    //return x + y;
    console.log(x + y)
};

somar(2,4) // console.log(somar(2,4))
myAdd(1,2)
```

Praticar um pouco mais de função e colocar essas funções no arquivo.ts

funcoes.ts

src > funcoes.ts > expurgar

```ts
function carregar(nome:string,sobreNome:string):string{

    return `O nome escolhido foi  ${nome} ${sobreNome}`
    //ou
    //return "O nome escolhido foi  " + nome  + " " + sobreNome

}
let nomeCompleto:string = carregar("Gustavo","Lima")
console.log(nomeCompleto)
```

```ts
function expurgar(nome:string,idade?:number):string{
    return `O nome escolhido foi  ${nome} sua idade é ${idade}`
    //ou
    //return "O nome escolhido foi  " + nome  + " " + sobreNome
}

let nomeExpurgado:string = expurgar("Gustavo", 18)

//ou - o parametro nao é obrigatorio porque foi colocado o ?
nomeExpurgado = expurgar("Gustavo")
```

```ts
function calcular(valor1:number, valor2:number){
    let soma: number = valor1 + valor2

    if(soma > 100){
        console.log("está muito caro")
    }else{
        console.log("está com bom preço")
    }
}

calcular(20,40)
```

Passo a passo para configuração e execução do typescript em um html

1) No terminal precisamos digitar tsc –init na pasta do nosso projeto
2) Em seguida, tsc -w . Com isso, iremos informar ao type script para que qualquer mudança em um arquivo .ts ele saiba e faça o transpile para um arquivo .js
3) Dentro da pasta do projeto crie a pasta src
4) Crie o arquivo app.ts dentro da pasta src
5) Altere o arquivo tsconfig.json para colocar o js gerado na pasta dist e faça o include da pasta src
6) Abra o arquivo app.ts
7) Digite nesse arquivo – console.log(“teste do app no html”). Em seguida salve o arquivo. Veja se o arquivo js foi criado na pasta dist
8) crie um novo arquivo chamado index.html
9) dentro dele digite html. Perceba que vai apresentar a opção html:5. Selecione essa opção. Isso irá formatar um template de html.
10) Na linha antes do </body> digite
<script src="dist/app.js"></script>
11) Abra o brownser e chame o arquivo index.html
12) Abra o console do chrome com F12. Veja que no console está escrito o que defimos.

EXPLORER

APPINICIAL
- dist
  - app.js
- src
  - app.ts
- index.html
- tsconfig.json

app.js

```
"use strict";
console.log("teste 2");
```

tsconfig.json

```
{
  "compilerOptions": {
    "target": "es5",
    "module": "commonjs",
    "outDir": "./dist",
    "strict": true,
    "esModuleInterop": true,
    "skipLibCheck": true,
    "forceConsistentCasingInFileNames": true
  }, "include" : ["./src"]
}
```

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    Nossa pagina

    <script src="dist/app.js"></script>
</body>
</html>
```

Fazer a aula 1 até aqui

Variáveis do TypeScript

Variáveis em TypeScript – tipos de dados

Podem ser do tipo string, number, boolean e any

Exemplos:

- let nome:string
- let idade: number
- let flag:boolean
- let quantidade: any

TS variavel.ts ×

src > TS variavel.ts > ...

```typescript
let nome:string

let idade: number

let flag:boolean

let quantidade: any


quantidade = 10

quantidade = "10" //isso é possivel por que esta definido como any. mas não é recomendado

nome = "Lucas"

idade = 10

//idade = "10" isso da erro
```

Tipo especial - Tupla

Tipo tuple – tipo especial

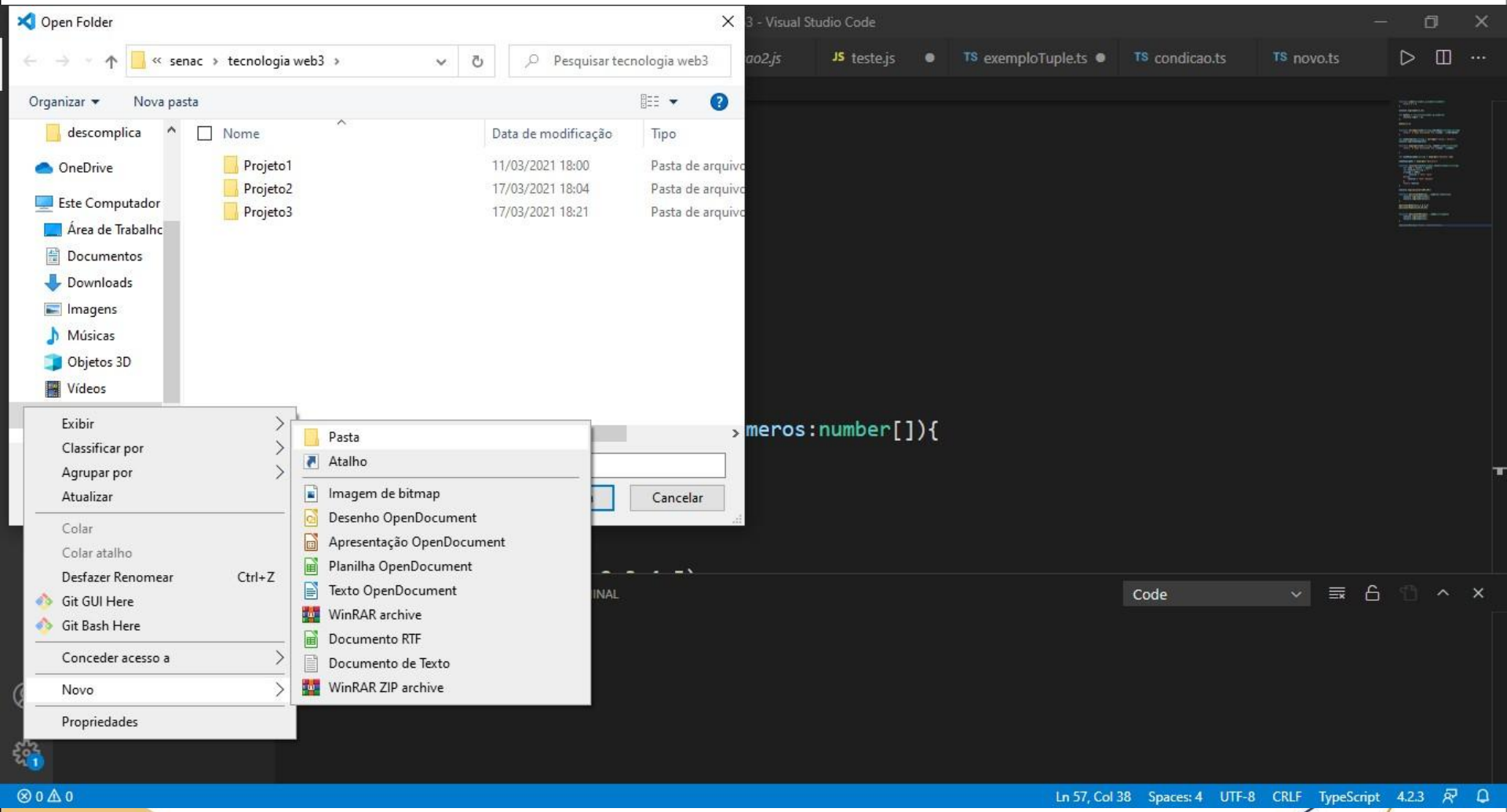
```
let tipoTuple : [number,string] = [1,"Lucas"]

//ou

let tipoTuple2 : [number,string]
tipoTuple2 = [1,"Lucas"]
```

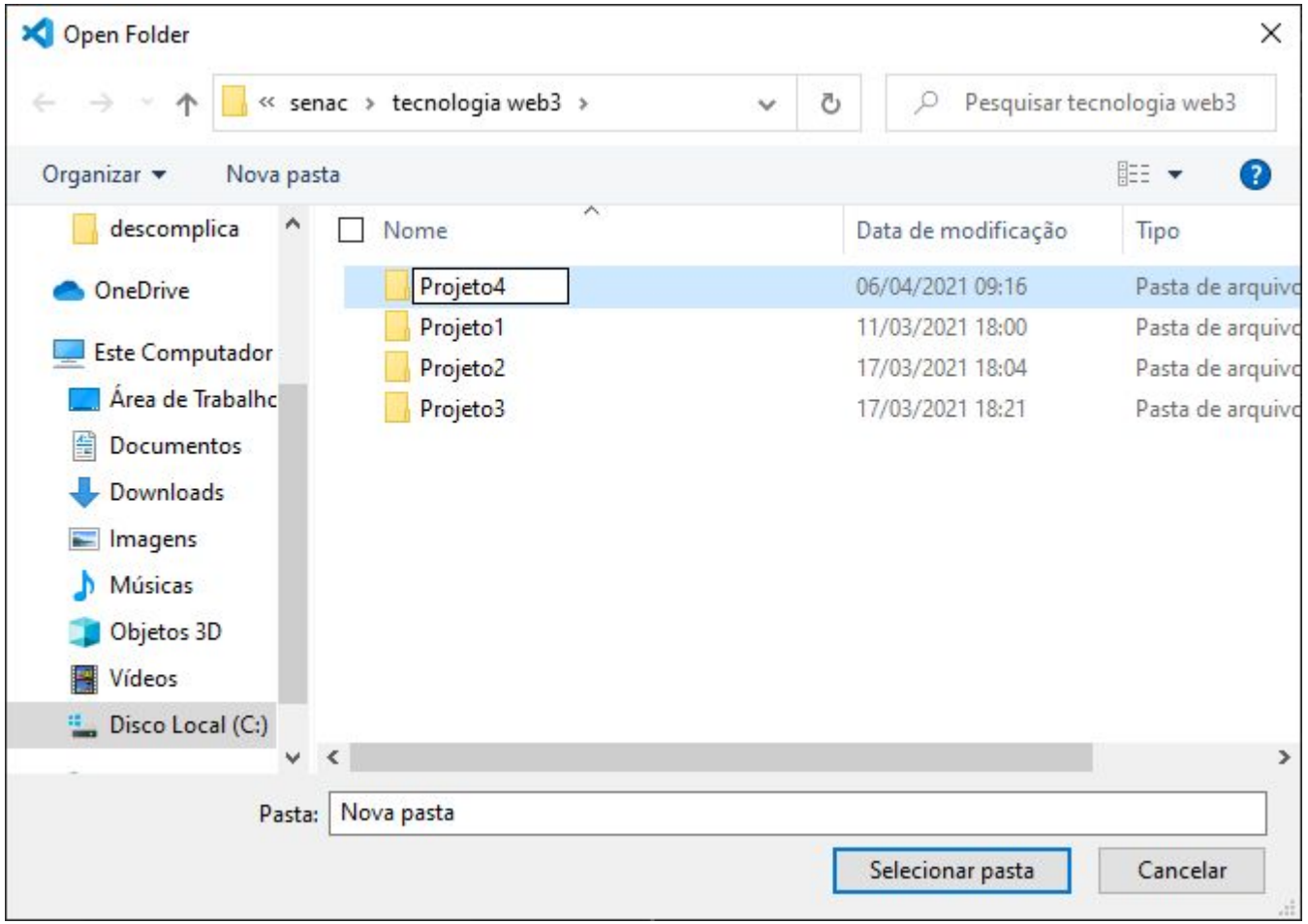
```
tipoTuple[0] = 8

console.log(tipoTuple[0])

tipoTuple.forEach(function (value) {
    console.log(value);
});

for(var index in tipoTuple)
{
    console.log(tipoTuple[index]);
}

for(var i = 0; i < tipoTuple.length; i++)
{
    console.log(tipoTuple[i]);
}
```

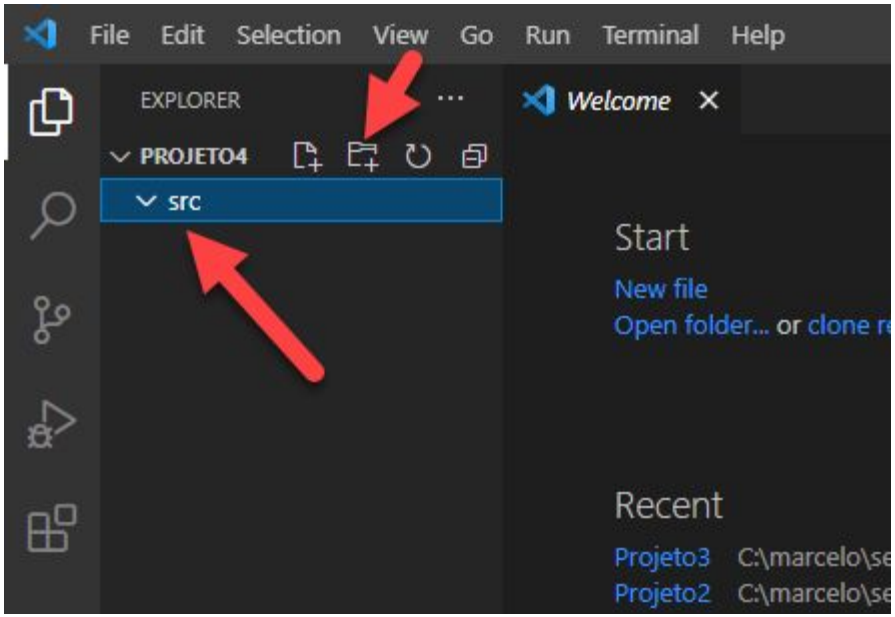
Formas de iterar em um tuple

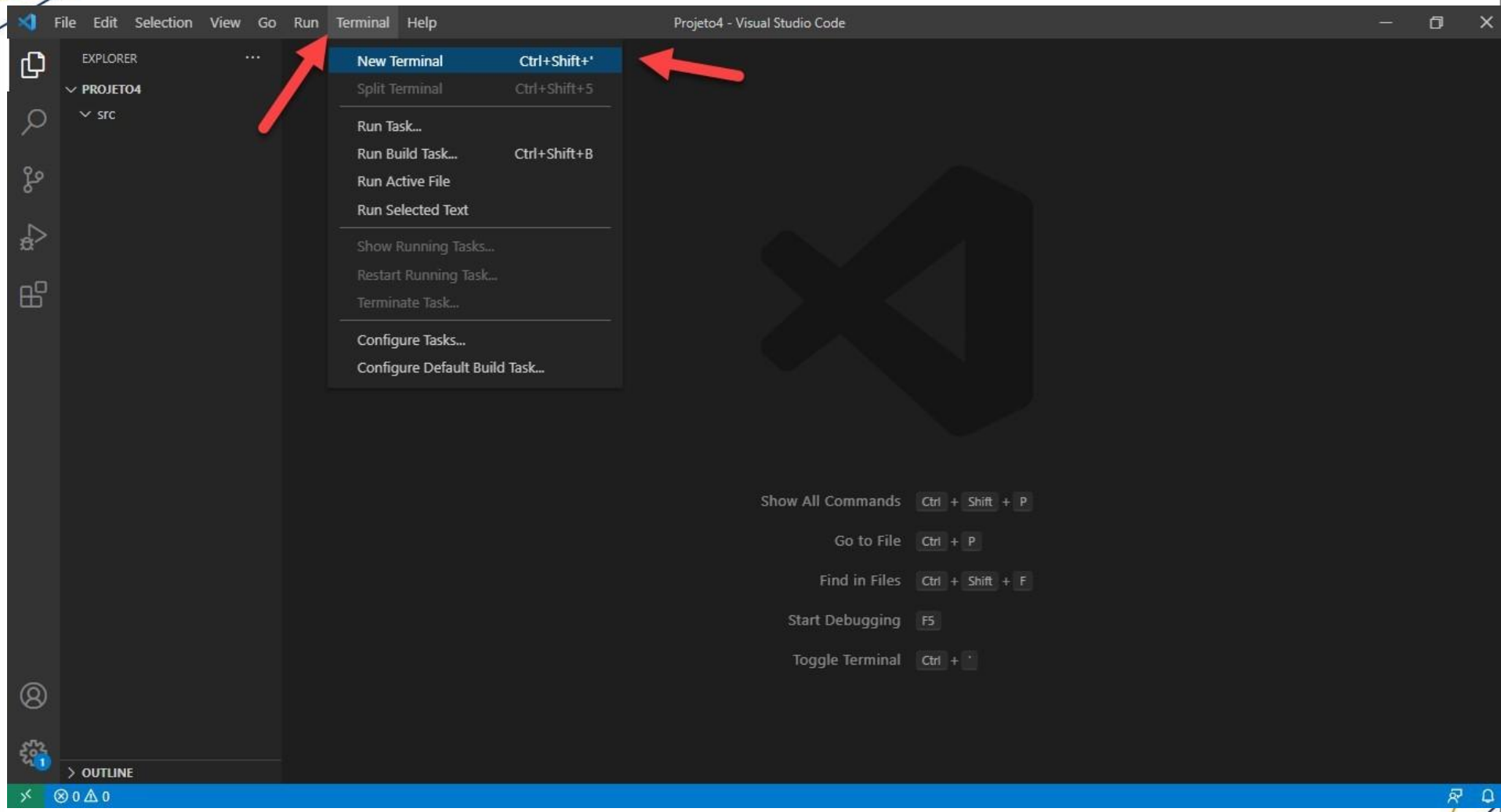
Inicio Aula 2
Pegando dados de um formulário com TypeScript

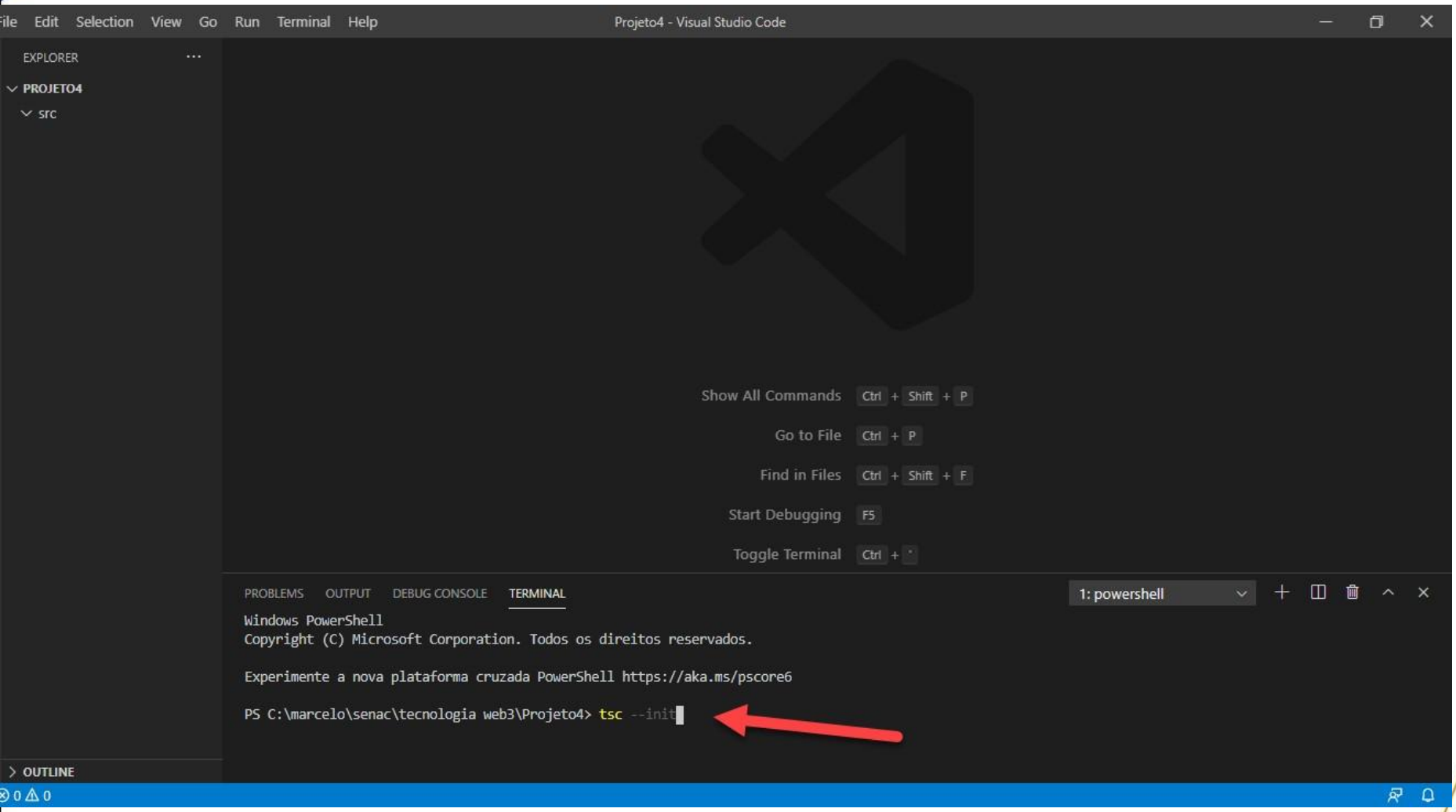
Vamos construir nosso projeto em typeScript e fazer nossas configurações iniciais

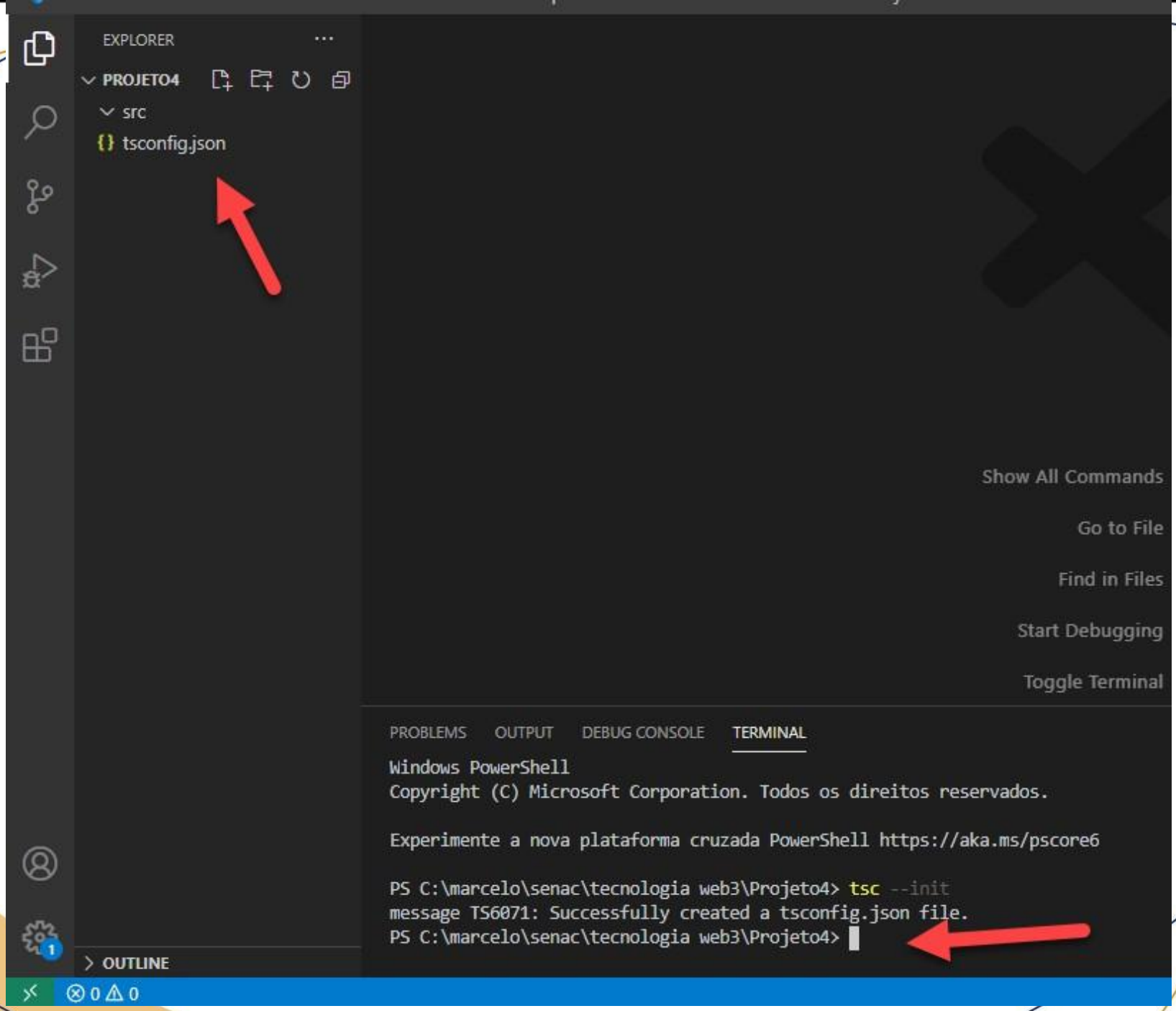

Open Folder
« senac › tecnologia web3 ›
Pesquisar tecnologia web3
Organizar
Nova pasta
descomplica
OneDrive
Este Computador
Área de Trabalho
Documentos
Downloads
Imagens
Músicas
Objetos 3D
Vídeos
Nome
Data de modificação
Tipo
Projeto1 11/03/2021 18:00 Pasta de arquivo
Projeto2 17/03/2021 18:04 Pasta de arquivo
Projeto3 17/03/2021 18:21 Pasta de arquivo
Exibir
Classificar por
Agrupar por
Atualizar
Colar
Colar atalho
Desfazer Renomear Ctrl+Z
Git GUI Here
Git Bash Here
Conceder acesso a
Novo
Propriedades
Pasta
Atalho
Imagem de bitmap
Desenho OpenDocument
Apresentação OpenDocument
Planilha OpenDocument
Texto OpenDocument
WinRAR archive
Documento RTF
Documento de Texto
WinRAR ZIP archive
Cancelar
3 - Visual Studio Code
ao2.js
teste.js
exemploTuple.ts
condicao.ts
novo.ts
meros:number[]){
Code
Ln 57, Col 38
Spaces: 4
UTF-8
CRLF
TypeScript
4.2.3

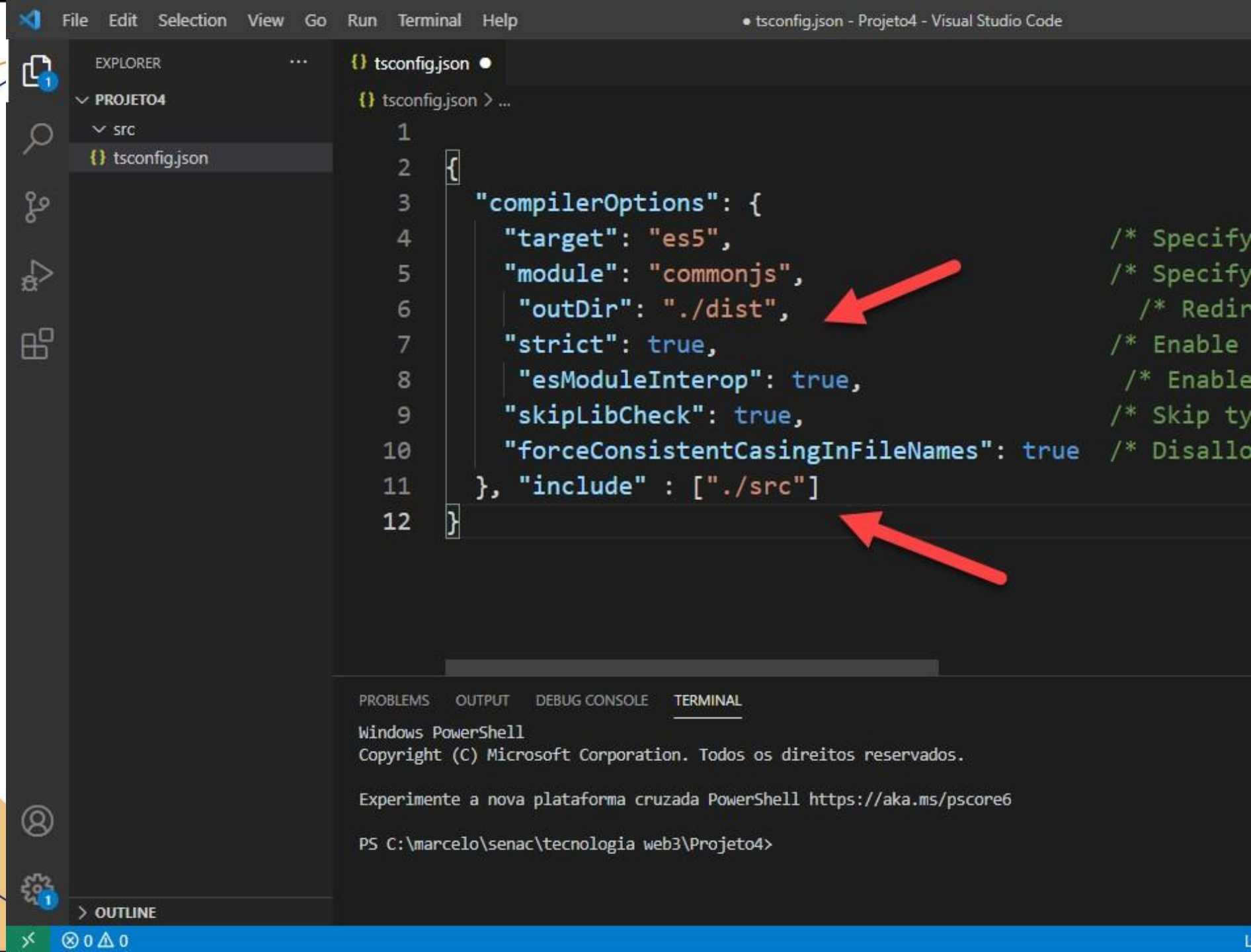

Open Folder
« senac › tecnologia web3 ›
Pesquisar tecnologia web3
Organizar
Nova pasta
descomplica
OneDrive
Este Computador
Área de Trabalhc
Documentos
Downloads
Imagens
Músicas
Objetos 3D
Vídeos
Disco Local (C:)
Nome
Data de modificação
Tipo
Projeto4
06/04/2021 09:16
Pasta de arquivo
Projeto1
11/03/2021 18:00
Pasta de arquivo
Projeto2
17/03/2021 18:04
Pasta de arquivo
Projeto3
17/03/2021 18:21
Pasta de arquivo
Pasta:
Nova pasta
Selecionar pasta
Cancelar

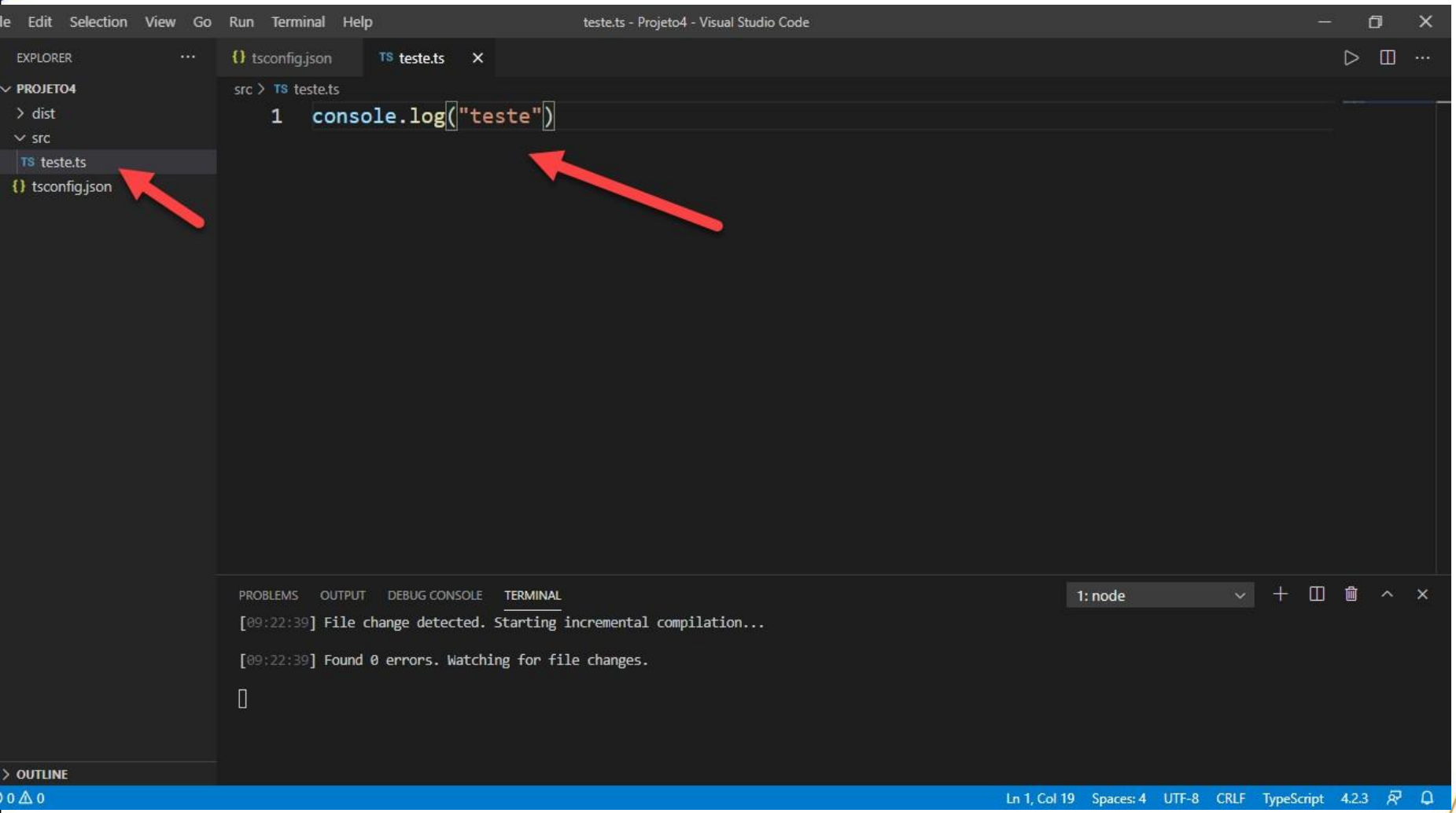

File Edit Selection View Go Run Terminal Help
EXPLORER
Welcome
PROJETO4
src
Start
New file
Open folder... or clone
Recent
Projeto3 C:\marcelo\se
Projeto2 C:\marcelo\se

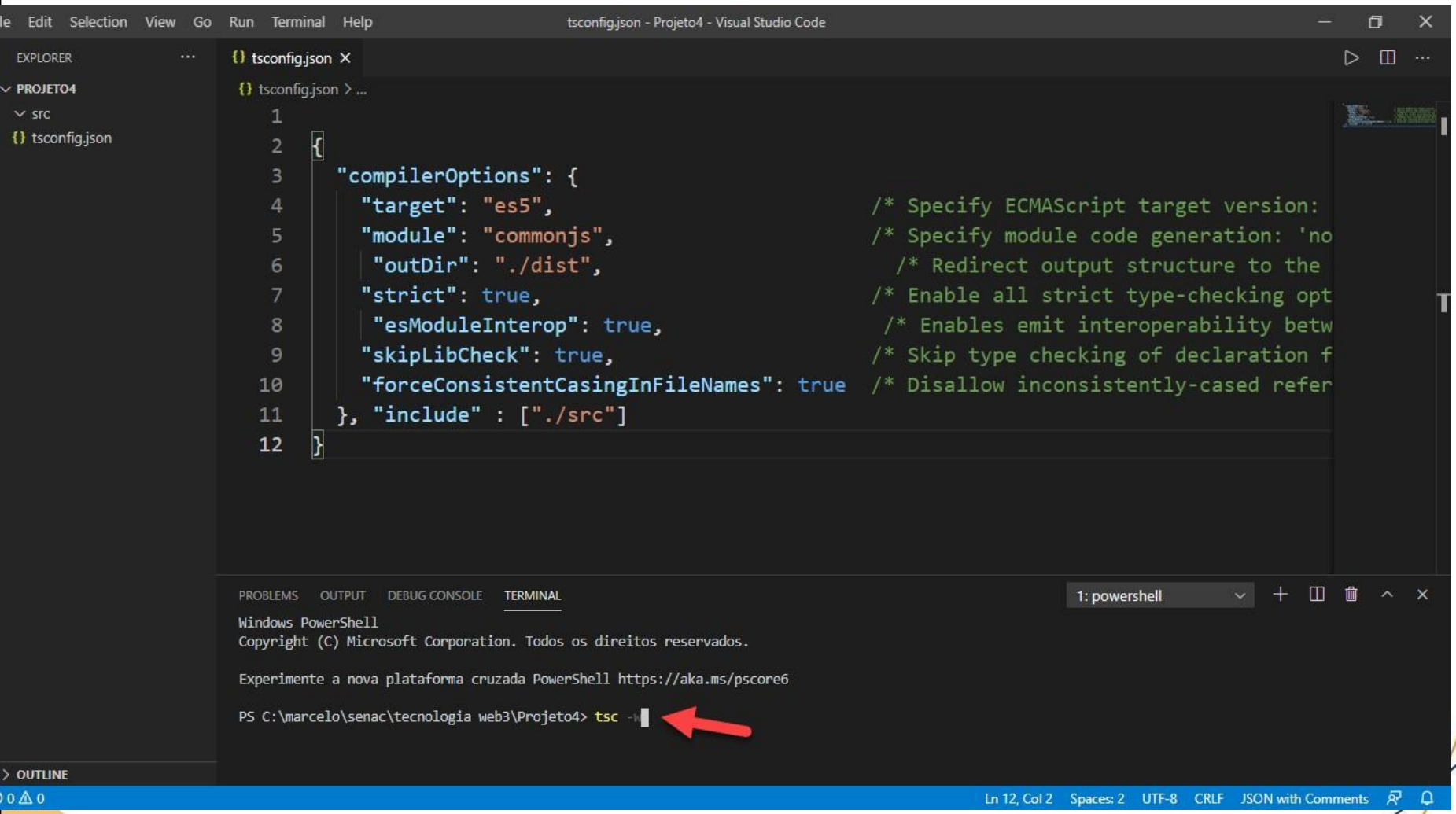

File Edit Selection View Go Run Terminal Help
Projeto4 - Visual Studio Code
EXPLORER
PROJETO4
src
New Terminal Ctrl+Shift+'
Split Terminal Ctrl+Shift+5
Run Task...
Run Build Task... Ctrl+Shift+B
Run Active File
Run Selected Text
Show Running Tasks...
Restart Running Task...
Terminate Task...
Configure Tasks...
Configure Default Build Task...
Show All Commands Ctrl + Shift + P
Go to File Ctrl + P
Find in Files Ctrl + Shift + F
Start Debugging F5
Toggle Terminal Ctrl + `
OUTLINE
0 0

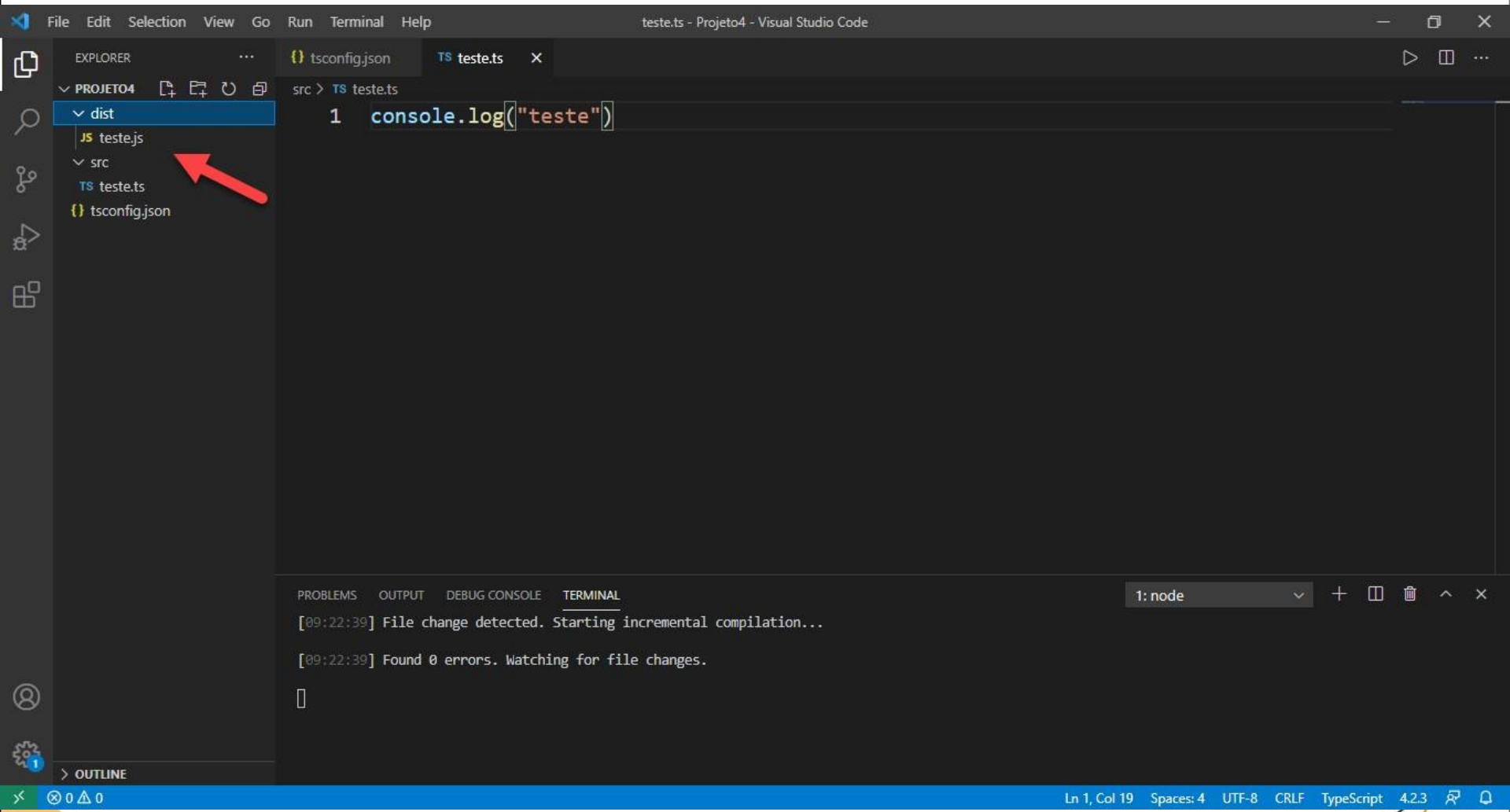

File Edit Selection View Go Run Terminal Help
Projeto4 - Visual Studio Code
EXPLORER
PROJETO4
src
Show All Commands Ctrl + Shift + P
Go to File Ctrl + P
Find in Files Ctrl + Shift + F
Start Debugging F5
Toggle Terminal Ctrl + `
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
1: powershell
Windows PowerShell
Copyright (C) Microsoft Corporation. Todos os direitos reservados.
Experimente a nova plataforma cruzada PowerShell https://aka.ms/pscore6
PS C:\marcelo\senac\tecnologia web3\Projeto4> tsc --init
OUTLINE
0 0


EXPLORER
PROJETO4
src
tsconfig.json
Show All Commands
Go to File
Find in Files
Start Debugging
Toggle Terminal
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
Windows PowerShell
Copyright (C) Microsoft Corporation. Todos os direitos reservados.
Experimente a nova plataforma cruzada PowerShell https://aka.ms/pscore6
PS C:\marcelo\senac\tecnologia web3\Projeto4> tsc --init
message TS6071: Successfully created a tsconfig.json file.
PS C:\marcelo\senac\tecnologia web3\Projeto4>
OUTLINE
0 0

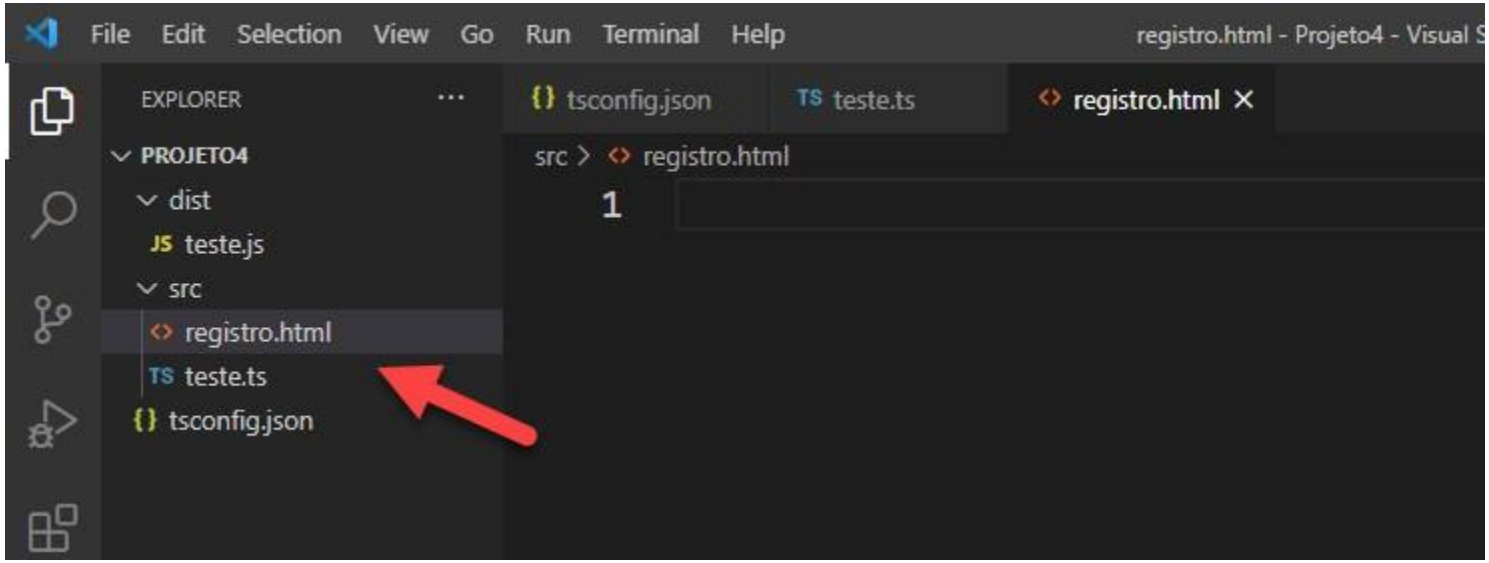

File Edit Selection View Go Run Terminal Help
• tsconfig.json - Projeto4 - Visual Studio Code
EXPLORER
PROJETO4
src
tsconfig.json
tsconfig.json
tsconfig.json > ...
{
"compilerOptions": {
"target": "es5", /* Specify
"module": "commonjs", /* Specify
"outDir": "./dist", /* Redir
"strict": true, /* Enable
"esModuleInterop": true, /* Enable
"skipLibCheck": true, /* Skip ty
"forceConsistentCasingInFileNames": true /* Disallo
}, "include" : ["./src"]
}
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Windows PowerShell
Copyright (C) Microsoft Corporation. Todos os direitos reservados.
Experimente a nova plataforma cruzada PowerShell https://aka.ms/pscore6
PS C:\marcelo\senac\tecnologia web3\Projeto4>
OUTLINE
0 0


le Edit Selection View Go Run Terminal Help
teste.ts - Projeto4 - Visual Studio Code
EXPLORER
PROJETO4
dist
src
teste.ts
tsconfig.json
tsconfig.json
teste.ts
src > teste.ts
1 console.log("teste")
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
1: node
[09:22:39] File change detected. Starting incremental compilation...
[09:22:39] Found 0 errors. Watching for file changes.
OUTLINE
0 0
Ln 1, Col 19
Spaces: 4
UTF-8
CRLF
TypeScript
4.2.3


le Edit Selection View Go Run Terminal Help
tsconfig.json - Projeto4 - Visual Studio Code
EXPLORER
PROJETO4
src
tsconfig.json
tsconfig.json
tsconfig.json > ...
{
"compilerOptions": {
"target": "es5", /* Specify ECMAScript target version:
"module": "commonjs", /* Specify module code generation: 'no
"outDir": "./dist", /* Redirect output structure to the
"strict": true, /* Enable all strict type-checking opt
"esModuleInterop": true, /* Enables emit interoperability betw
"skipLibCheck": true, /* Skip type checking of declaration f
"forceConsistentCasingInFileNames": true /* Disallow inconsistently-cased refer
}, "include" : ["./src"]
}
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
1: powershell
Windows PowerShell
Copyright (C) Microsoft Corporation. Todos os direitos reservados.
Experimente a nova plataforma cruzada PowerShell https://aka.ms/pscore6
PS C:\marcelo\senac\tecnologia web3\Projeto4> tsc -w
OUTLINE
0 0
Ln 12, Col 2 Spaces: 2 UTF-8 CRLF JSON with Comments


File Edit Selection View Go Run Terminal Help
teste.ts - Projeto4 - Visual Studio Code
EXPLORER
PROJETO4
dist
teste.js
src
teste.ts
tsconfig.json
tsconfig.json
teste.ts
src > teste.ts
1 console.log("teste")
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
1: node
[09:22:39] File change detected. Starting incremental compilation...
[09:22:39] Found 0 errors. Watching for file changes.
OUTLINE
Ln 1, Col 19 Spaces: 4 UTF-8 CRLF TypeScript 4.2.3

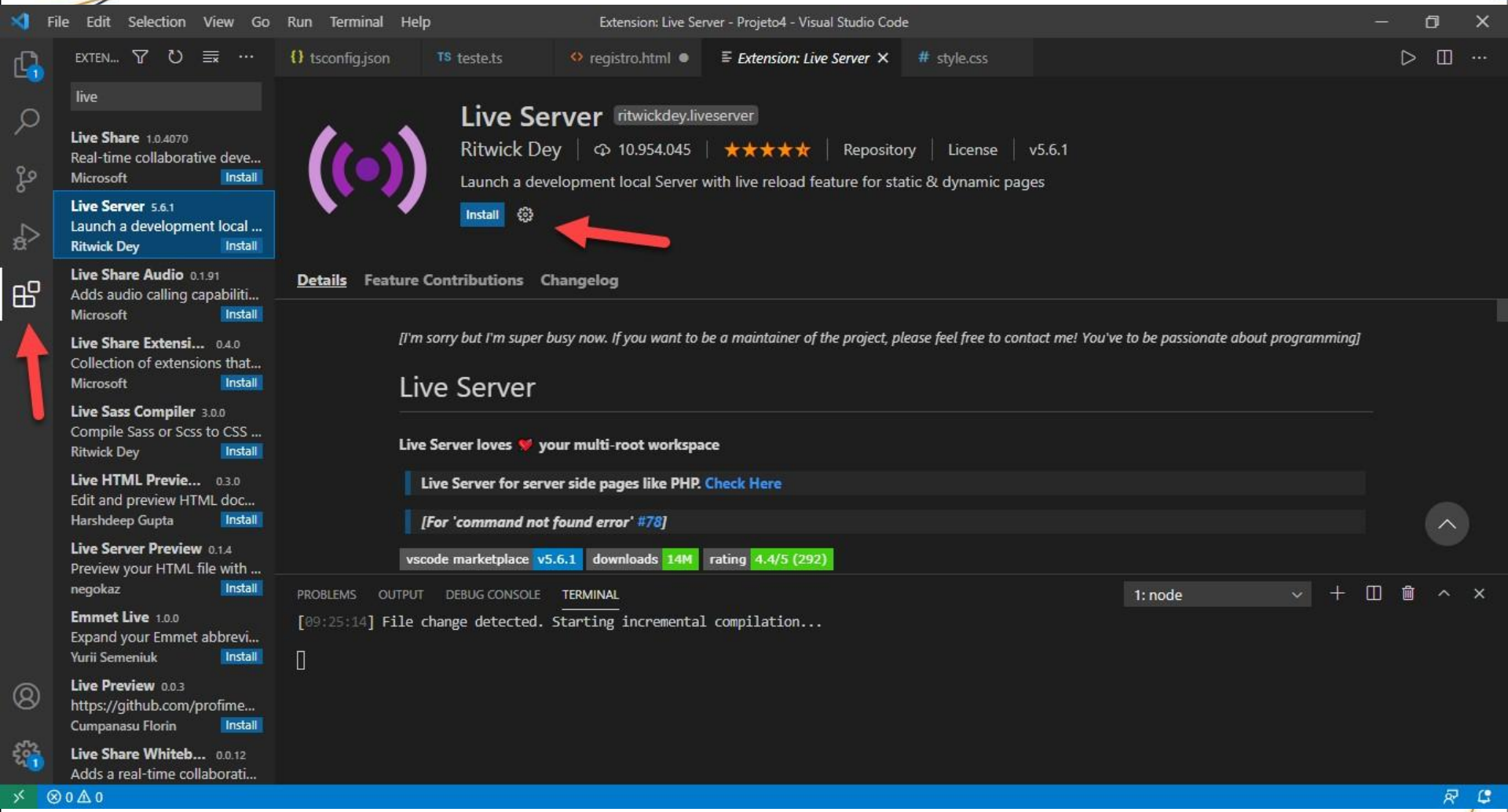
Vamos construir nossa página HTML

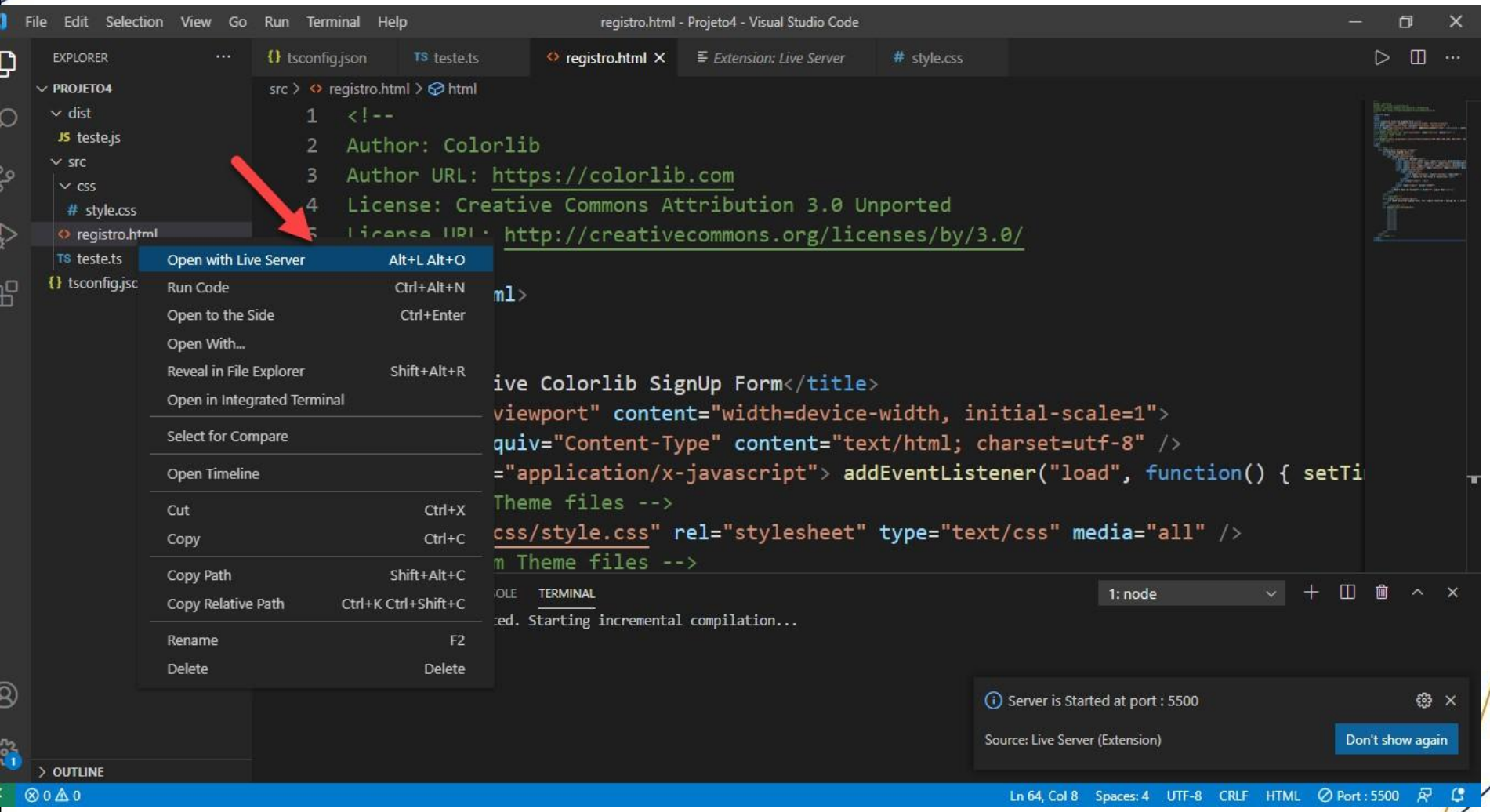


https://codepen.io/colorlib/pen/aaaoVJ

```
<title>Creative Colorlib SignUp Form</title>
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<script type="application/x-javascript"> addEventListener("load", function()
{ setTimeout(hideURLbar, 0); }, false); function hideURLbar(){ window.scrollTo(0,1);
}
</script>
<!-- Custom Theme files -->
<link href="css/style.css" rel="stylesheet" type="text/css" media="all" />
<!-- //Custom Theme files -->
<!-- web font -->
<link
href="//fonts.googleapis.com/css?family=Roboto:300,300i,400,400i,700,700i"
rel="stylesheet">
<!-- //web font -->
</head>
<body>
	<!-- main -->
	<div class="main-w3layouts wrapper">
		<h1>Creative SignUp Form</h1>
		<div class="main-agileinfo">
			<div class="agileits-top">
				<input class="text" type="text" id="nome" name="Nome"
placeholder="Nome" required="">
				<input class="text email" type="email"
```

```
mark, audio, video {
  margin: 0;
  padding: 0;
  border: 0;
  font-size: 100%;
  font: inherit;
  vertical-align: baseline;
}

article, aside, details, figcaption, figure, footer, header, hgroup, menu, nav, section
  {  display: block;
}

ol, ul {
  list-style: none;
  margin: 0px;
  padding: 0px;
}

blockquote, q {
  quotes: none;
}

blockquote:before, blockquote:after, q:before, q:after
  {  content: '';
```


File Edit Selection View Go Run Terminal Help
Extension: Live Server - Projeto4 - Visual Studio Code
EXTEN...
live
Live Share 1.0.4070
Real-time collaborative deve...
Microsoft Install
Live Server 5.6.1
Launch a development local ...
Ritwick Dey Install
Live Share Audio 0.1.91
Adds audio calling capabiliti...
Microsoft Install
Live Share Extensi... 0.4.0
Collection of extensions that...
Microsoft Install
Live Sass Compiler 3.0.0
Compile Sass or Scss to CSS ...
Ritwick Dey Install
Live HTML Previe... 0.3.0
Edit and preview HTML doc...
Harshdeep Gupta Install
Live Server Preview 0.1.4
Preview your HTML file with ...
negokaz Install
Emmet Live 1.0.0
Expand your Emmet abbrevi...
Yurii Semeniuk Install
Live Preview 0.0.3
https://github.com/profime...
Cumpanasu Florin Install
Live Share Whiteb... 0.0.12
Adds a real-time collaborati...
tsconfig.json
teste.ts
registro.html
Extension: Live Server
style.css
Live Server
ritwickdey.liveserver
Ritwick Dey
10.954.045
Repository
License
v5.6.1
Launch a development local Server with live reload feature for static & dynamic pages
Install
Details
Feature Contributions
Changelog
[I'm sorry but I'm super busy now. If you want to be a maintainer of the project, please feel free to contact me! You've to be passionate about programming]
Live Server
Live Server loves your multi-root workspace
Live Server for server side pages like PHP. Check Here
[For 'command not found error' #78]
vscode marketplace v5.6.1
downloads 14M
rating 4.4/5 (292)
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
1: node
[09:25:14] File change detected. Starting incremental compilation...
0 0


File Edit Selection View Go Run Terminal Help
registro.html - Projeto4 - Visual Studio Code
EXPLORER
PROJETO4
dist
teste.js
src
css
style.css
registro.html
teste.ts
tsconfig.jsc
tsconfig.json
teste.ts
registro.html
Extension: Live Server
style.css
src > registro.html > html
<!--
Author: Colorlib
Author URL: https://colorlib.com
License: Creative Commons Attribution 3.0 Unported
http://creativecommons.org/licenses/by/3.0/
ml>
ive Colorlib SignUp Form</title>
viewport" content="width=device-width, initial-scale=1">
quiv="Content-Type" content="text/html; charset=utf-8" />
="application/x-javascript"> addEventListener("load", function() { setTi
Theme files -->
css/style.css" rel="stylesheet" type="text/css" media="all" />
m Theme files -->
Open with Live Server Alt+L Alt+O
Run Code Ctrl+Alt+N
Open to the Side Ctrl+Enter
Open With...
Reveal in File Explorer Shift+Alt+R
Open in Integrated Terminal
Select for Compare
Open Timeline
Cut Ctrl+X
Copy Ctrl+C
Copy Path Shift+Alt+C
Copy Relative Path Ctrl+K Ctrl+Shift+C
Rename F2
Delete Delete
TERMINAL
1: node
ed. Starting incremental compilation...
Server is Started at port : 5500
Source: Live Server (Extension)
Don't show again
OUTLINE
Ln 64, Col 8 Spaces: 4 UTF-8 CRLF HTML Port : 5500

Temos que colocar o bootstrap

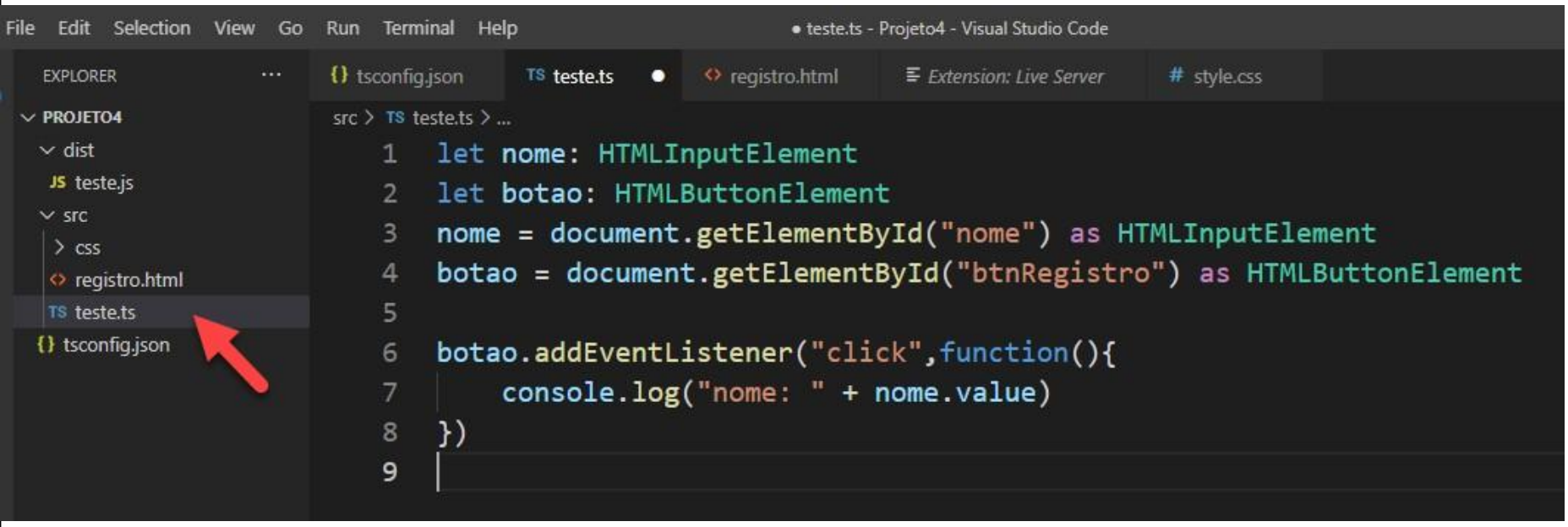
teste.ts | index.html | style.css

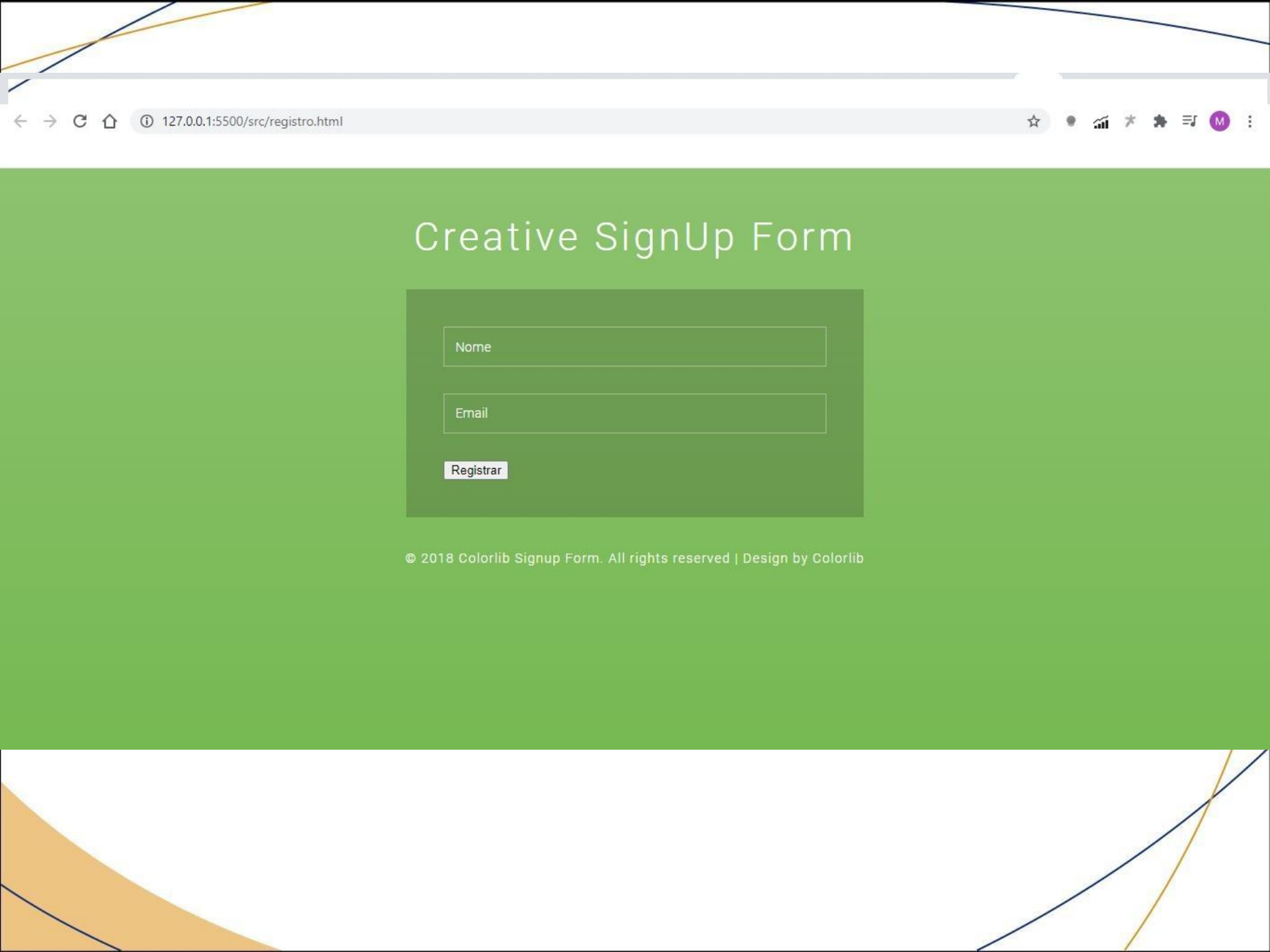
index.html > html > body > div.main-w3layouts.wrapper > div.colorlibcopy-agile

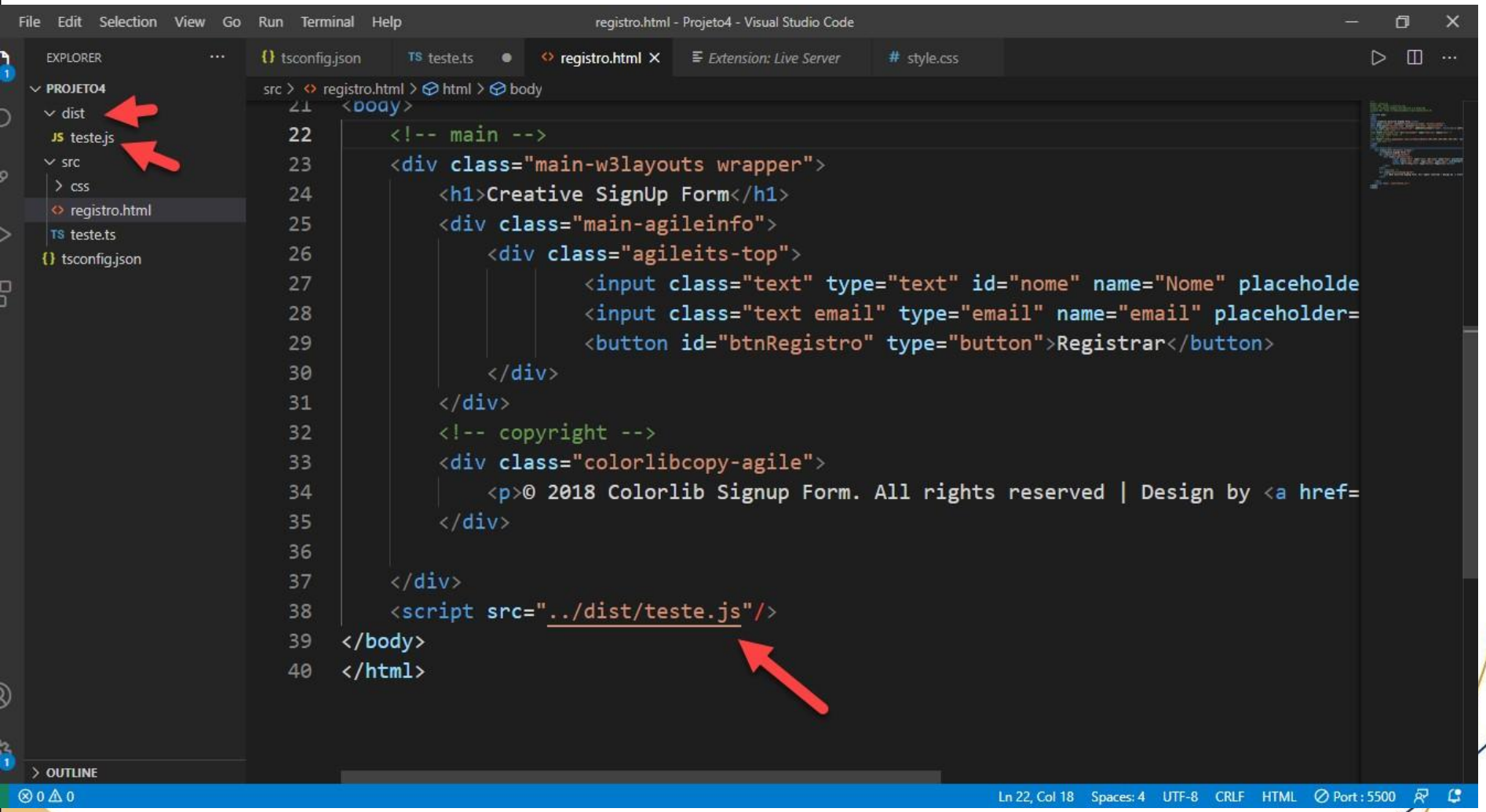
```
22    </script>
23    <!-- Custom Theme files -->
24    <link href="css/style.css" rel="stylesheet" type="text/css" media="all" />
25    <!-- //Custom Theme files -->
26    <!-- web font -->
27    <link href="//fonts.googleapis.com/css?family=Roboto:300,300i,400,400i,700,700i" rel="stylesheet">
28    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css" integrity="sha384-Gn53
29    <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwF
30  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.min.js" integrity="sha384-ApNbgh9B+Y1QKtv3Rn7W3mgPx
31  <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstrap.min.js" integrity="sha384-JZR6Spejh4U02d8jOt6vLEHf
32    <!-- //web font -->
33  </head>
34
35  <body>
36    <!-- main -->
37    <div class="main-w3layouts wrapper">
38      <h1>Creative SignUp Form</h1>
39      <div class="main-agileinfo">
40        <div class="agileits-top">
41          <form action="#" method="post">
42            <input class="text" type="text" id="nome" name="Username" placeholder="Username" required="">
43            <button id="btnRegistro" type="button">Registrar</button>
44          </form>
45
46        </div>
47      </div>
```


47
48
49
50 <ul id="conteudo" class="list-group" >
51
52
53
54 <!-- copyright -->
55
56 <p>© 2018 Colorlib Signup Form. All rights reserve
57
58 <!-- //copyright -->
59
60
61 <!-- //main -->
62 <script src="teste.js">
63 </script>
64 </body>
65

Trabalhando com os elementos do DOM utilizando TypeScript


File Edit Selection View Go Run Terminal Help
• teste.ts - Projeto4 - Visual Studio Code
EXPLORER
PROJETO4
dist
teste.js
src
css
registro.html
teste.ts
tsconfig.json
tsconfig.json
teste.ts
registro.html
Extension: Live Server
style.css
src > teste.ts > ...
1 let nome: HTMLInputElement
2 let botao: HTMLButtonElement
3 nome = document.getElementById("nome") as HTMLInputElement
4 botao = document.getElementById("btnRegistro") as HTMLButtonElement
5
6 botao.addEventListener("click",function(){
7 console.log("nome: " + nome.value)
8 })
9


127.0.0.1:5500/src/registro.html
Creative SignUp Form
Nome
Email
Registrar
© 2018 Colorlib Signup Form. All rights reserved | Design by Colorlib


File Edit Selection View Go Run Terminal Help
registro.html - Projeto4 - Visual Studio Code
EXPLORER
PROJETO4
dist
teste.js
src
css
registro.html
teste.ts
tsconfig.json
OUTLINE
tsconfig.json
teste.ts
registro.html
Extension: Live Server
style.css
src > registro.html > html > body
<body>
<!-- main -->

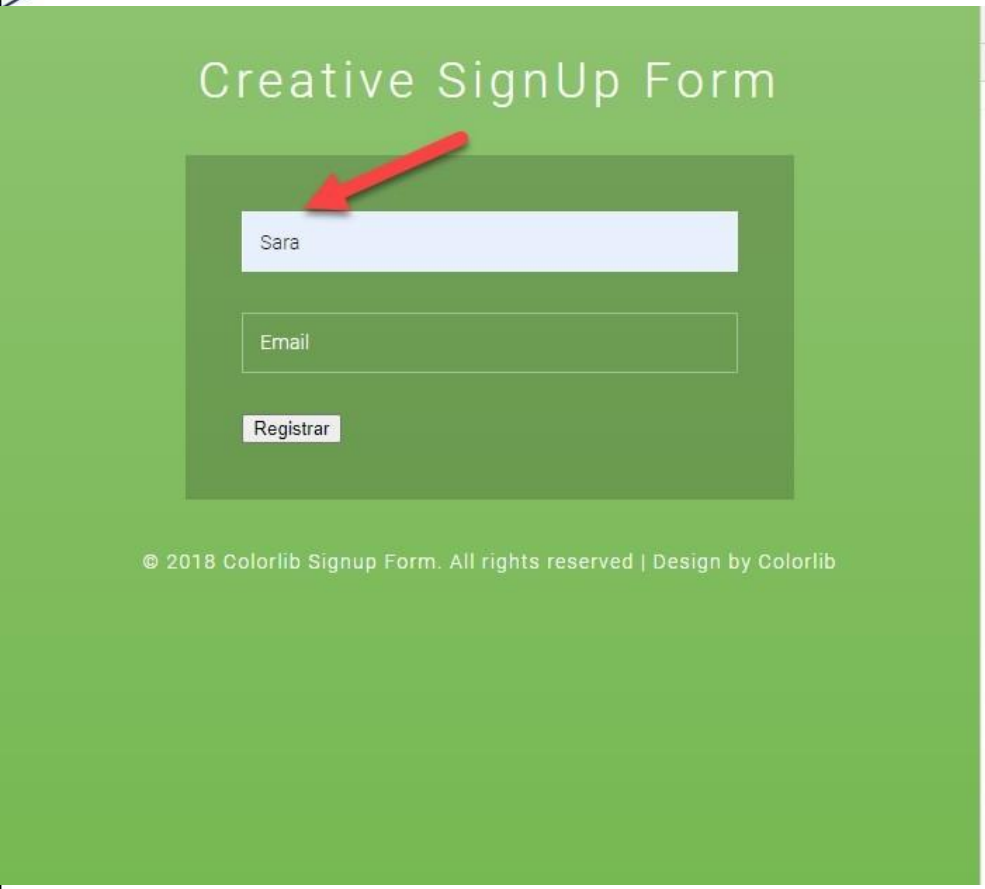
<h1>Creative SignUp Form</h1>

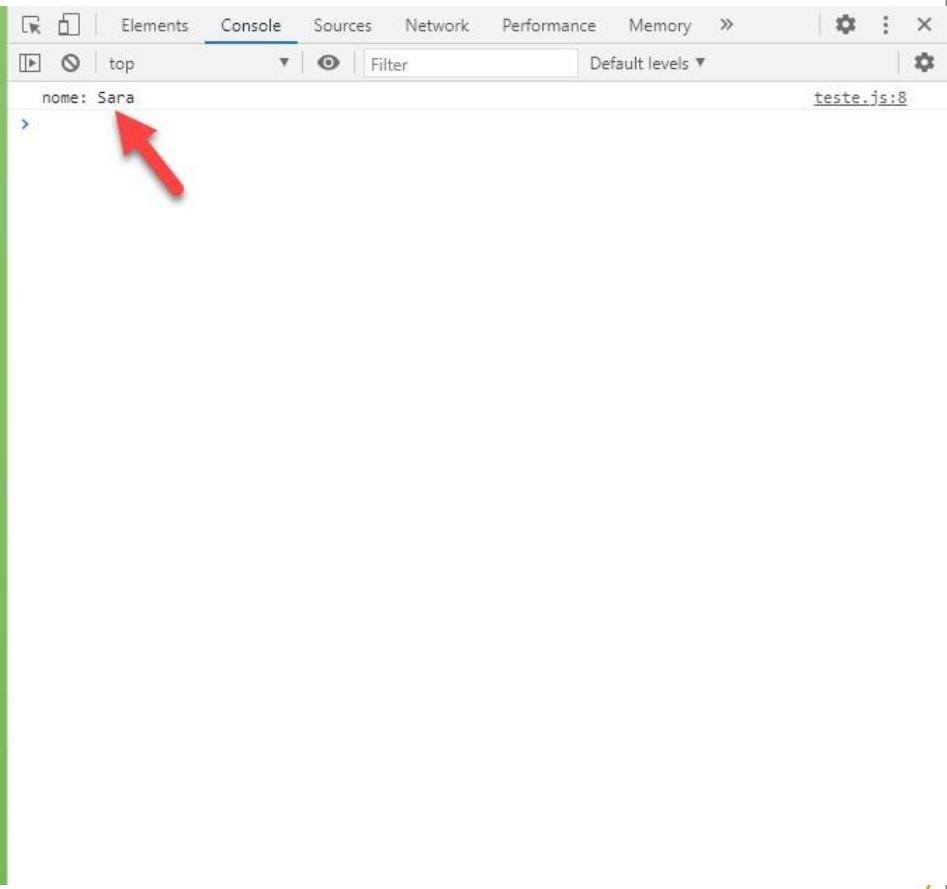
<input class="text" type="text" id="nome" name="Nome" placeholde
<input class="text email" type="email" name="email" placeholder=
<button id="btnRegistro" type="button">Registrar</button>

<!-- copyright -->

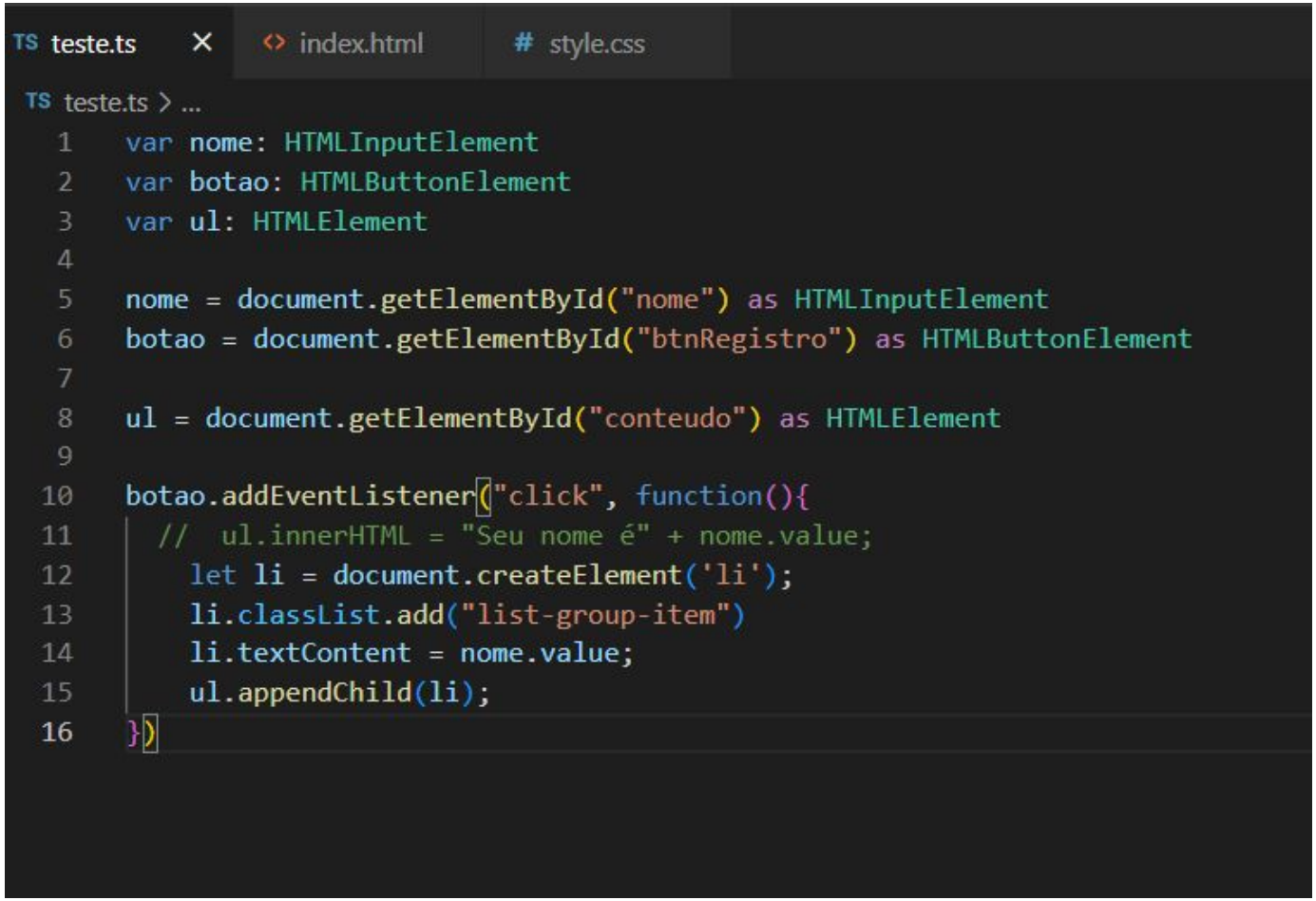
<p>© 2018 Colorlib Signup Form. All rights reserved | Design by <a href=

<script src="../dist/teste.js"/>
</body>
</html>
Ln 22, Col 18 Spaces: 4 UTF-8 CRLF HTML Port : 5500


Creative SignUp Form
Sara
Email
Registrar
© 2018 Colorlib Signup Form. All rights reserved | Design by Colorlib


Elements
Console
Sources
Network
Performance
Memory
top
Filter
Default levels
nome: Sara
teste.js:8

Vamos aprimorar

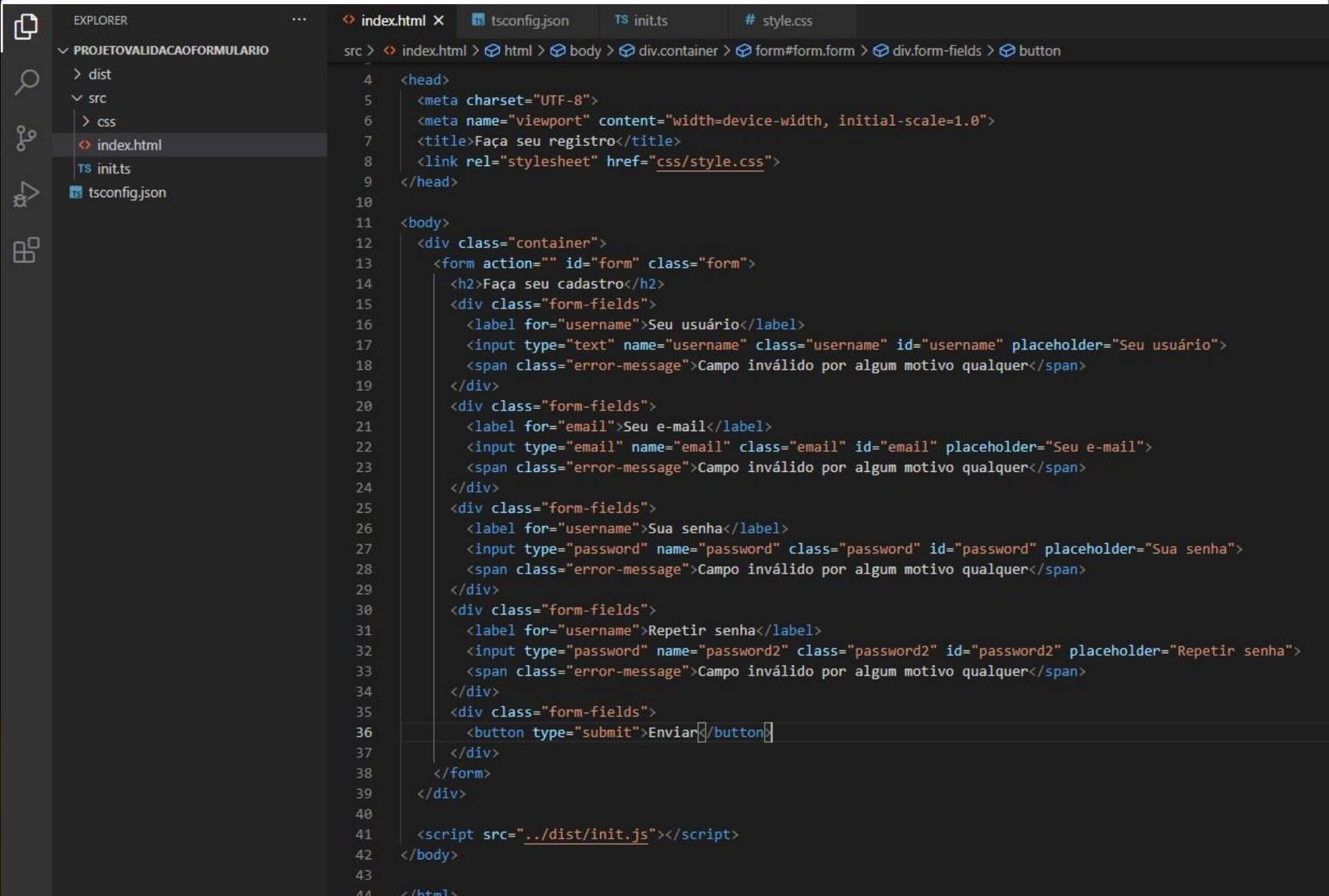


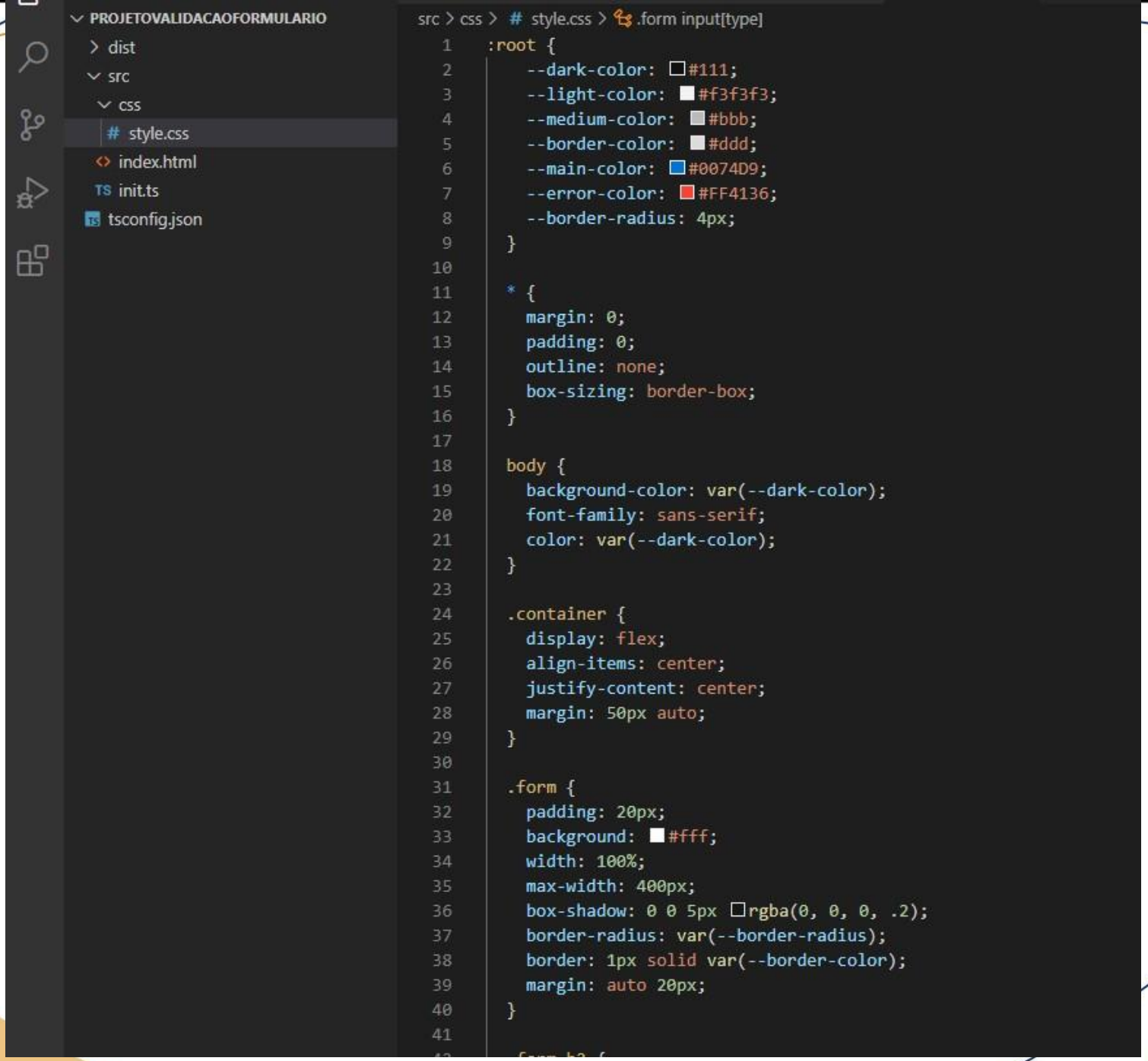

marcelo
Registrar
marcelo

Hands-ON - Criação e Validação de um formulário com TypeScript

1. Criar um projeto em TypeScript
2. Configurar a pasta src
3. Configurar a pasta dist
4. Criar um formulário com 4 campos(colocar o nome do class conforme abaixo:
   username, email, password e password2
5. Criar um botão de submit
6. Pegar os valores de cada um dos campos usando querySelector e colocar em uma variável

Correção do Exercício
Validação de formulário


EXPLORER
PROJETOVALIDACAOFORMULARIO
dist
src
css
index.html
init.ts
tsconfig.json
index.html
tsconfig.json
init.ts
style.css
src > index.html > html > body > div.container > form#form.form > div.form-fields > button
4 <head>
5 <meta charset="UTF-8">
6 <meta name="viewport" content="width=device-width, initial-scale=1.0">
7 <title>Faça seu registro</title>
8 <link rel="stylesheet" href="css/style.css">
9 </head>
10
11 <body>
12
13 <form action="" id="form" class="form">
14 <h2>Faça seu cadastro</h2>
15
16 <label for="username">Seu usuário</label>
17 <input type="text" name="username" class="username" id="username" placeholder="Seu usuário">
18 Campo inválido por algum motivo qualquer
19
20
21 <label for="email">Seu e-mail</label>
22 <input type="email" name="email" class="email" id="email" placeholder="Seu e-mail">
23 Campo inválido por algum motivo qualquer
24
25
26 <label for="username">Sua senha</label>
27 <input type="password" name="password" class="password" id="password" placeholder="Sua senha">
28 Campo inválido por algum motivo qualquer
29
30
31 <label for="username">Repetir senha</label>
32 <input type="password" name="password2" class="password2" id="password2" placeholder="Repetir senha">
33 Campo inválido por algum motivo qualquer
34
35
36 <button type="submit">Enviar</button>
37
38 </form>
39
40
41 <script src="../dist/init.js"></script>
42 </body>
43

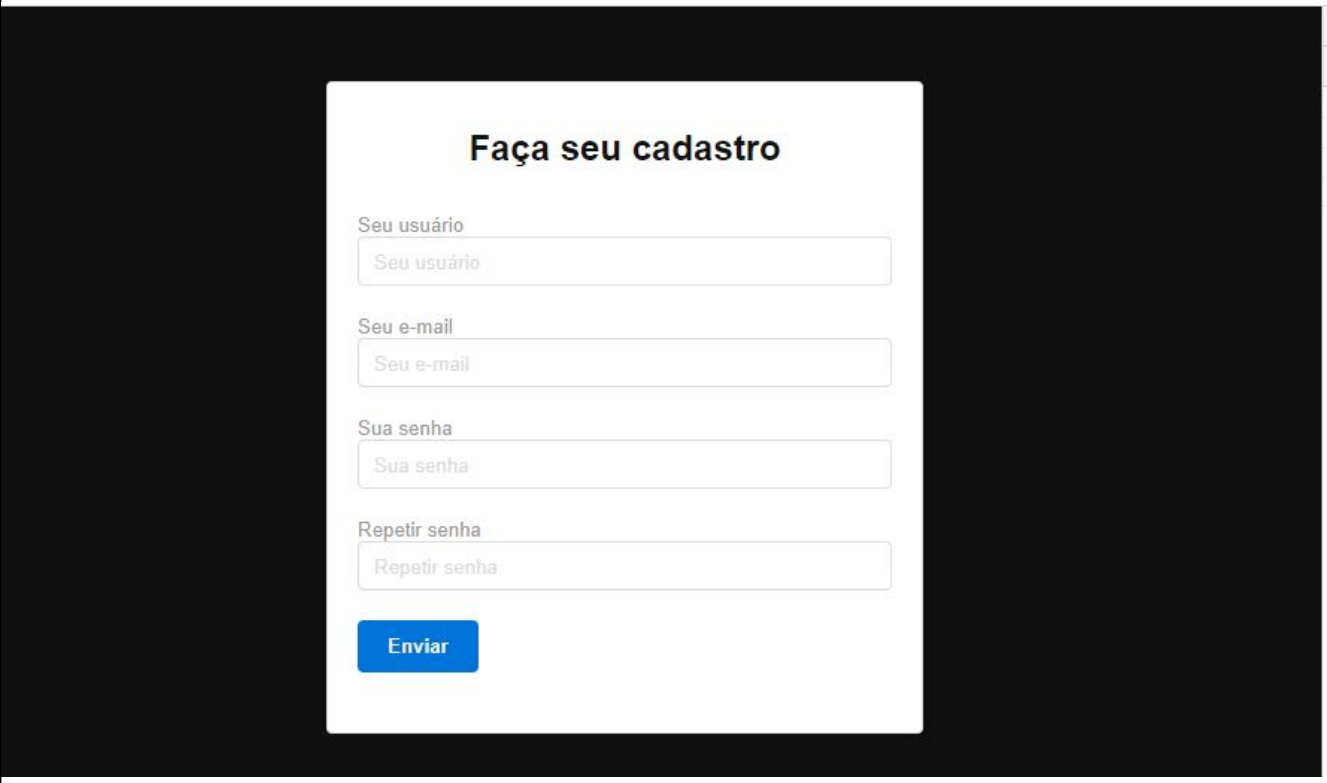

PROJETOVALIDACAOFORMULARIO
dist
src
css
style.css
index.html
init.ts
tsconfig.json
src > css > # style.css > .form input[type]
:root {
--dark-color: #111;
--light-color: #f3f3f3;
--medium-color: #bbb;
--border-color: #ddd;
--main-color: #0074D9;
--error-color: #FF4136;
--border-radius: 4px;
}
* {
margin: 0;
padding: 0;
outline: none;
box-sizing: border-box;
}
body {
background-color: var(--dark-color);
font-family: sans-serif;
color: var(--dark-color);
}
.container {
display: flex;
align-items: center;
justify-content: center;
margin: 50px auto;
}
.form {
padding: 20px;
background: #fff;
width: 100%;
max-width: 400px;
box-shadow: 0 0 5px rgba(0, 0, 0, .2);
border-radius: var(--border-radius);
border: 1px solid var(--border-color);
margin: auto 20px;
}

c > TS init.ts > verifcarCamposVazios

```ts
const form = document.querySelector('.form') as HTMLFormElement;
const username = document.querySelector('.username') as HTMLInputElement
const email = document.querySelector('.email') as HTMLInputElement
const password = document.querySelector('.password') as HTMLInputElement
const password2 = document.querySelector('.password2') as HTMLInputElement

```

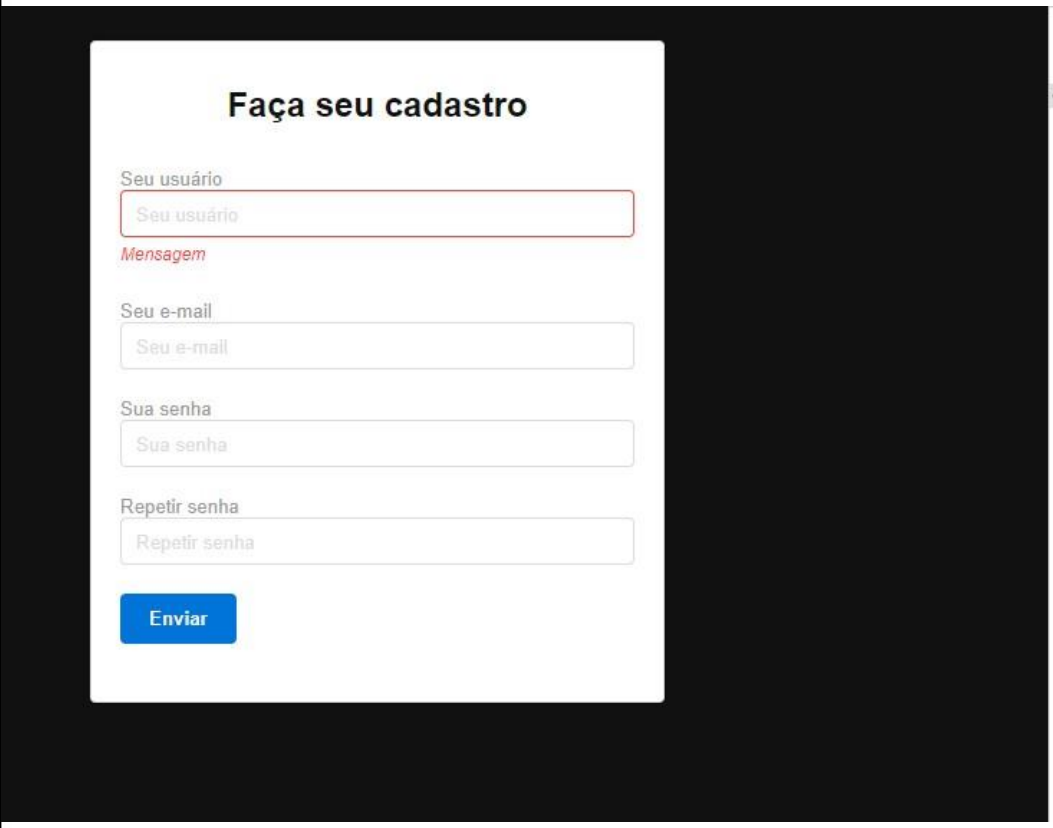
```
//funçao que vai verificar se os campos estão vazios
function verifcarCamposVazios(...inputs: HTMLInputElement[]):void{

    inputs.forEach((campo) =>{
        if(!campo.value){
            console.log(` ${campo.className} está vazio`)
        }

    })

}
```

```
// definindo o evento do form
form.addEventListener('submit', function(event: Event){

    // eu quero que ele cancele o evento de submeter para ir para uma outra pagina
    event.preventDefault();
    verifcarCamposVazios(username,email,password,password2)

});
```

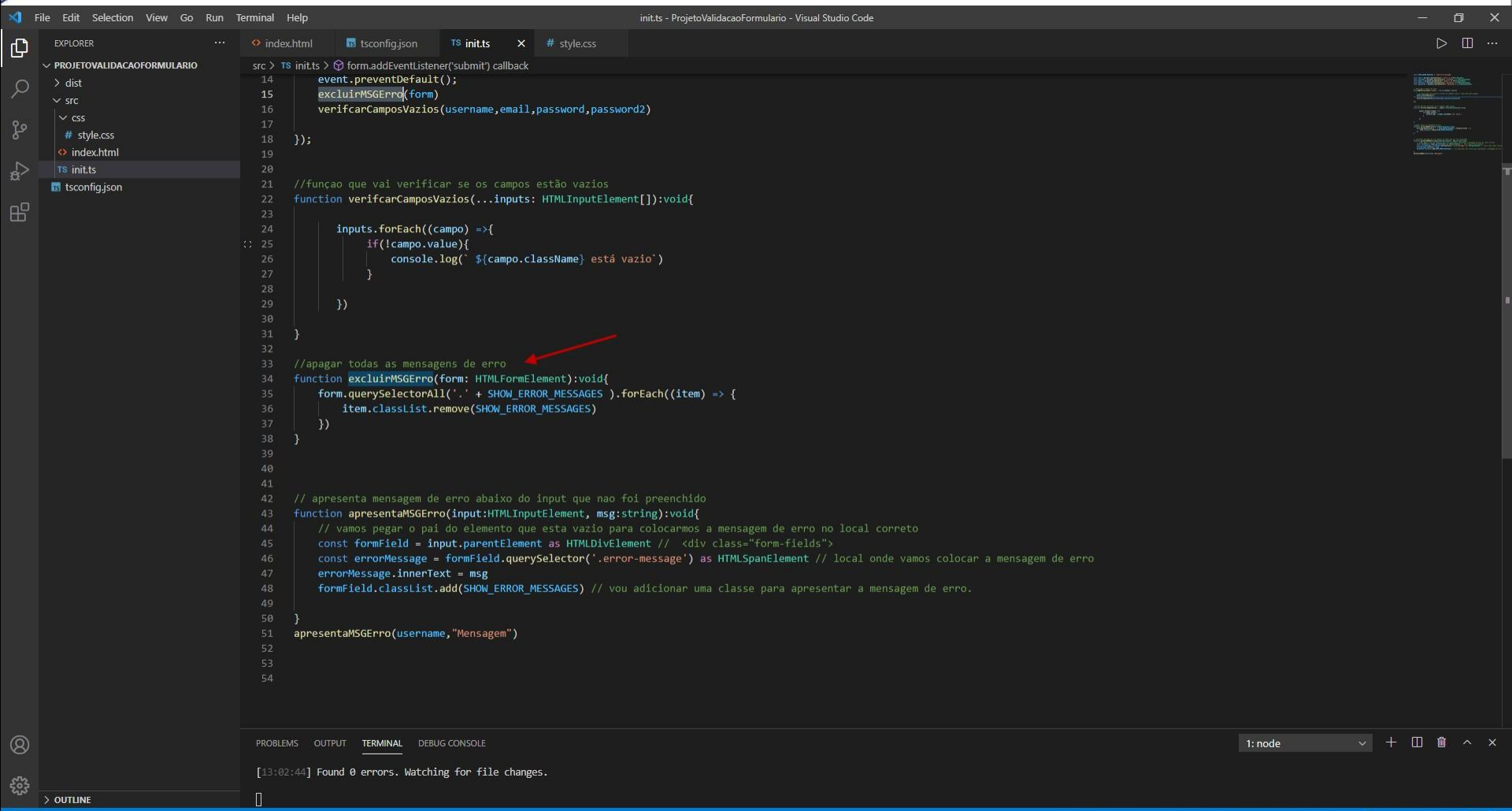

Faça seu cadastro
Seu usuário
Seu usuário
Seu e-mail
Seu e-mail
Sua senha
Sua senha
Repetir senha
Repetir senha
Enviar

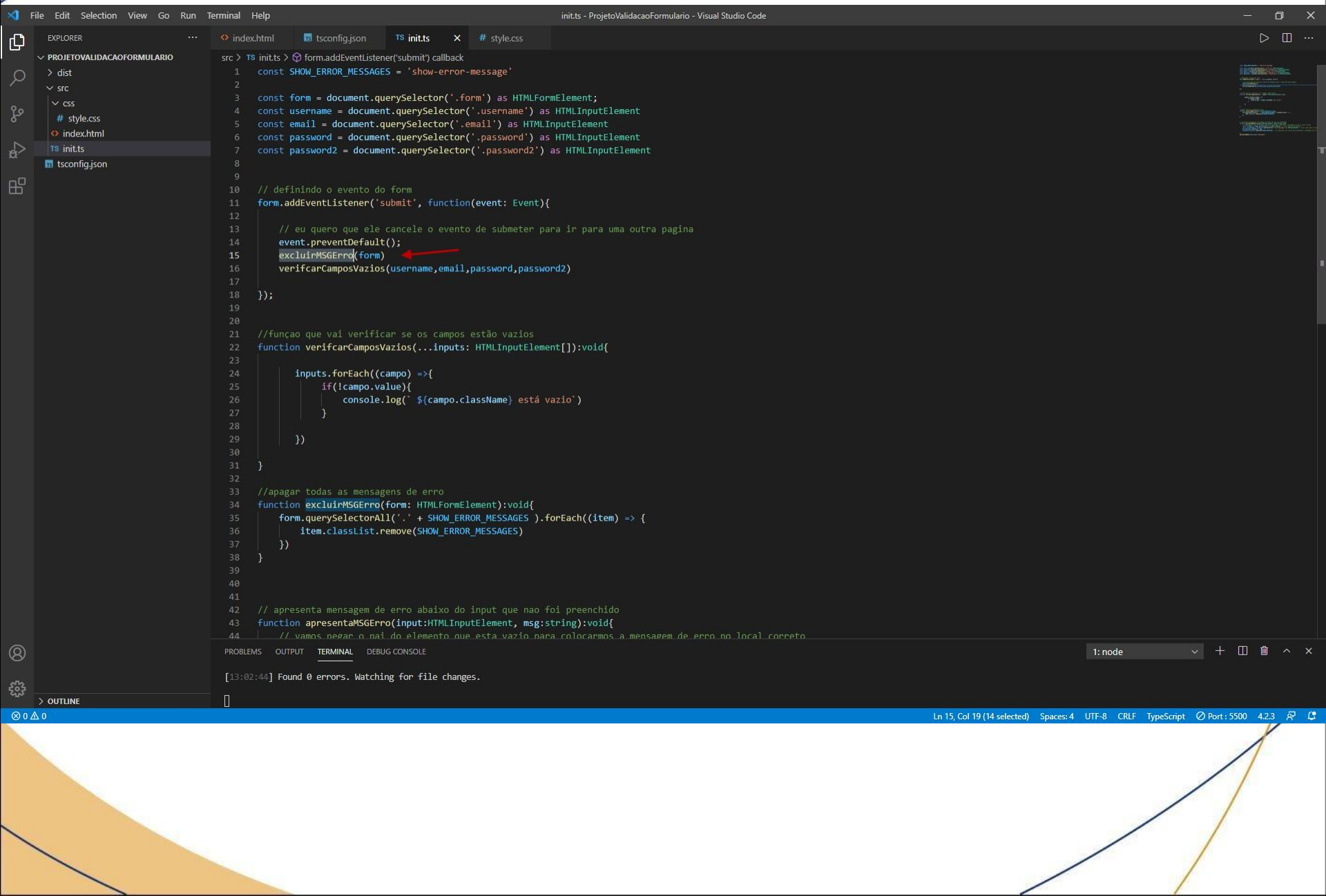

Elements
Console
Sources
Network
Performa
top
Filter
username está vazio
email está vazio
password está vazio
password2 está vazio

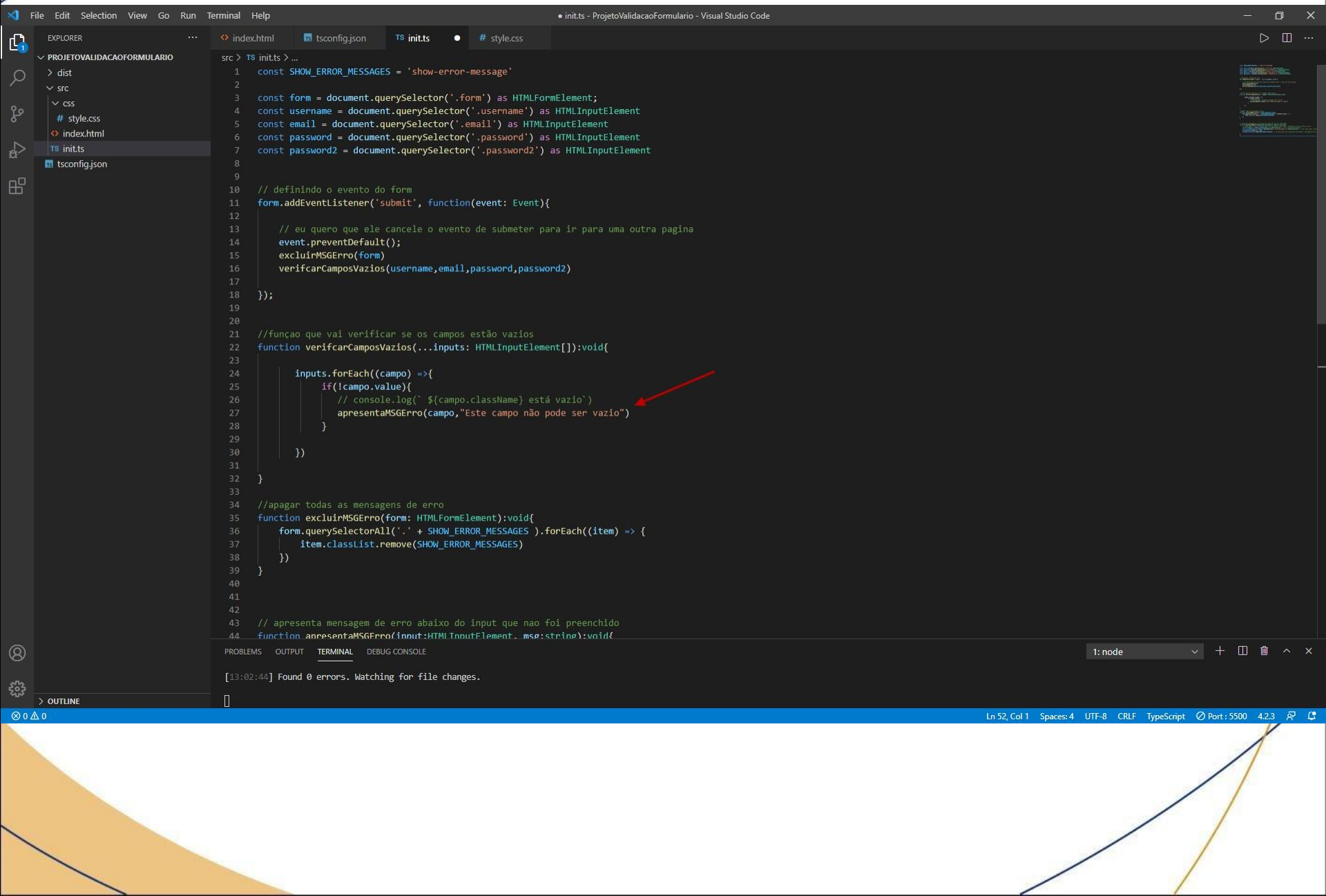
```
31
32
33  function apresentaMSGErro(input:HTMLInputElement,msg:string){
34      const formField = input.parentElement as HTMLDivElement
35      const errorMessage = formField.querySelector('.error-message') as HTMLSpanElement
36      errorMessage.innerText = msg
37      formField.classList.add(SHOW_ERROR_MESSAGES)
38  }
39
40  apresentaMSGErro(username,"Mensagem")
41
42
```




```
<!DOCTYPE html>
<html lang="pt-BR">
▶ <head>…</head>
··· ▼ <body> == $0
  ▼ <div class="container"> flex
    ▼ <form action id="form" class="form">
        <h2>Faça seu cadastro</h2>
      ▼ <div class="form-fields show-error-message">
          <label for="username">Seu usuário</label>
          <input type="text" name="username" class="username" id="username" placeholder="Se
          io">
          <span class="error-message">Mensagem</span>
        </div>
      ▶ <div class="form-fields">…</div>
      ▶ <div class="form-fields">…</div>
      ▶ <div class="form-fields">…</div>
      ▶ <div class="form-fields">…</div>
      </form>
    </div>
    <script src="../dist/init.js"></script>
    <!-- Code injected by live-server -->
  ▶ <script type="text/javascript">…</script>
  </body>
</html>
```

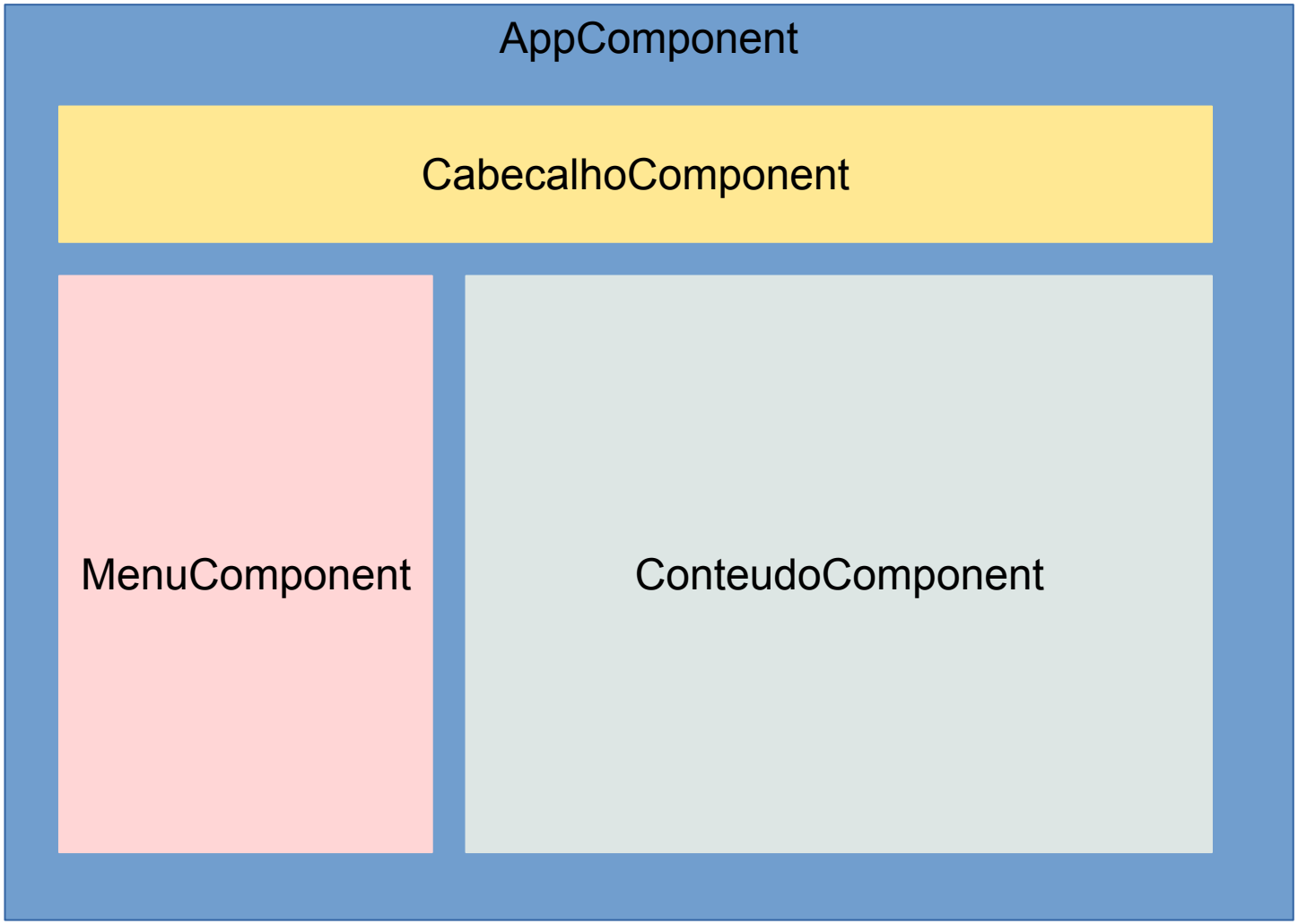

File Edit Selection View Go Run Terminal Help
init.ts - ProjetoValidacaoFormulario - Visual Studio Code
EXPLORER
PROJETOVALIDACAOFORMULARIO
dist
src
css
style.css
index.html
init.ts
tsconfig.json
index.html
tsconfig.json
init.ts
style.css
src > init.ts > form.addEventListener('submit') callback
14 event.preventDefault();
15 excluirMSGErro(form)
16 verifcarCamposVazios(username,email,password,password2)
17
18 });
19
20
21 //funçao que vai verificar se os campos estão vazios
22 function verifcarCamposVazios(...inputs: HTMLInputElement[]):void{
23
24 inputs.forEach((campo) =>{
25 if(!campo.value){
26 console.log(` ${campo.className} está vazio`)
27 }
28
29 })
30
31 }
32
33 //apagar todas as mensagens de erro
34 function excluirMSGErro(form: HTMLFormElement):void{
35 form.querySelectorAll('.' + SHOW_ERROR_MESSAGES).forEach((item) => {
36 item.classList.remove(SHOW_ERROR_MESSAGES)
37 })
38 }
39
40
41
42 // apresenta mensagem de erro abaixo do input que nao foi preenchido
43 function apresentaMSGErro(input:HTMLInputElement, msg:string):void{
44 // vamos pegar o pai do elemento que esta vazio para colocarmos a mensagem de erro no local correto
45 const formField = input.parentElement as HTMLDivElement //
46 const errorMessage = formField.querySelector('.error-message') as HTMLSpanElement // local onde vamos colocar a mensagem de erro
47 errorMessage.innerText = msg
48 formField.classList.add(SHOW_ERROR_MESSAGES) // vou adicionar uma classe para apresentar a mensagem de erro.
49
50 }
51 apresentaMSGErro(username,"Mensagem")
52
53
54
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
1: node
[13:02:44] Found 0 errors. Watching for file changes.
OUTLINE
0 0
Ln 15, Col 19 (14 selected) Spaces: 4 UTF-8 CRLF TypeScript Port : 5500 4.2.3

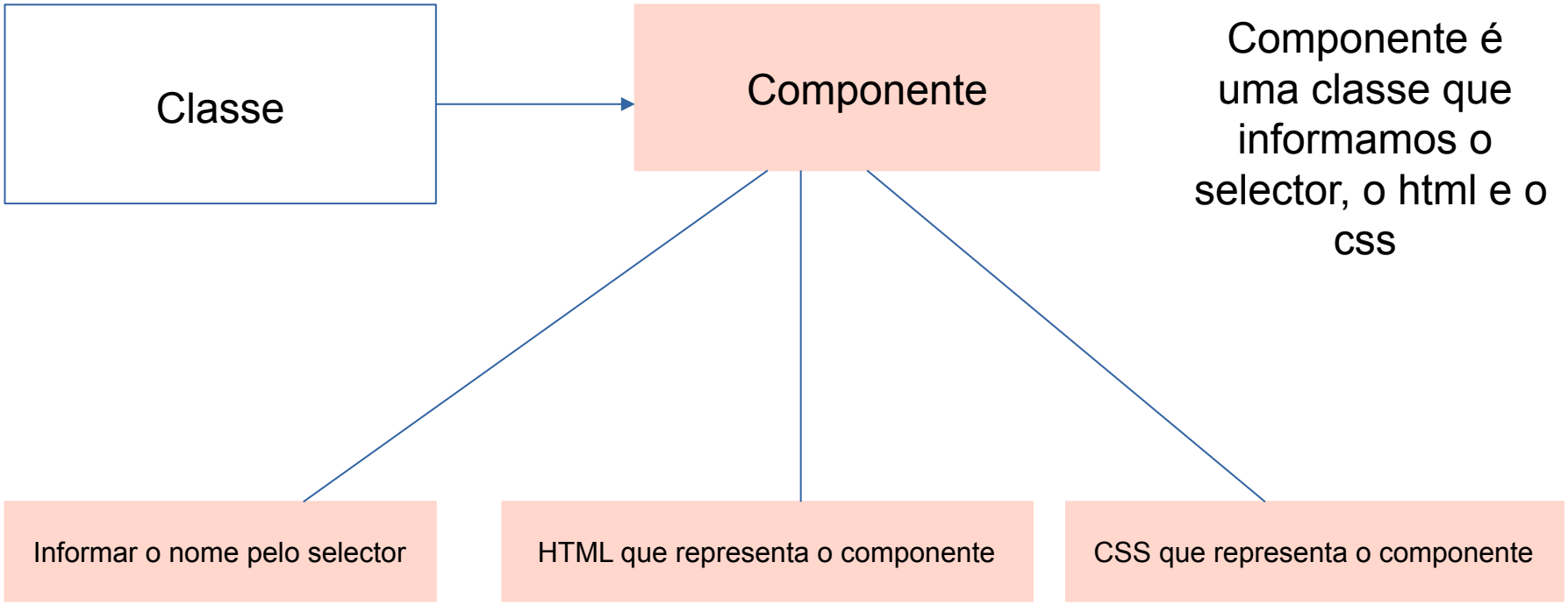

File Edit Selection View Go Run Terminal Help
init.ts - ProjetoValidacaoFormulario - Visual Studio Code
EXPLORER
PROJETOVALIDACAOFORMULARIO
dist
src
css
style.css
index.html
init.ts
tsconfig.json
index.html
tsconfig.json
init.ts
style.css
src > init.ts > form.addEventListener('submit') callback
const SHOW_ERROR_MESSAGES = 'show-error-message'
const form = document.querySelector('.form') as HTMLFormElement;
const username = document.querySelector('.username') as HTMLInputElement
const email = document.querySelector('.email') as HTMLInputElement
const password = document.querySelector('.password') as HTMLInputElement
const password2 = document.querySelector('.password2') as HTMLInputElement
// definindo o evento do form
form.addEventListener('submit', function(event: Event){
// eu quero que ele cancele o evento de submeter para ir para uma outra pagina
event.preventDefault();
excluirMSGErro(form)
verifcarCamposVazios(username,email,password,password2)
});
//funçao que vai verificar se os campos estão vazios
function verifcarCamposVazios(...inputs: HTMLInputElement[]):void{
inputs.forEach((campo) =>{
if(!campo.value){
console.log(` ${campo.className} está vazio`)
}
})
}
//apagar todas as mensagens de erro
function excluirMSGErro(form: HTMLFormElement):void{
form.querySelectorAll('.' + SHOW_ERROR_MESSAGES).forEach((item) => {
item.classList.remove(SHOW_ERROR_MESSAGES)
})
}
// apresenta mensagem de erro abaixo do input que nao foi preenchido
function apresentaMSGErro(input:HTMLInputElement, msg:string):void{
// vamos pegar o pai do elemento que esta vazio para colocarmos a mensagem de erro no local correto
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
1: node
[13:02:44] Found 0 errors. Watching for file changes.
OUTLINE
Ln 15, Col 19 (14 selected) Spaces: 4 UTF-8 CRLF TypeScript Port : 5500 4.2.3


File Edit Selection View Go Run Terminal Help
• init.ts - ProjetoValidacaoFormulario - Visual Studio Code
EXPLORER
PROJETOVALIDACAOFORMULARIO
dist
src
css
style.css
index.html
init.ts
tsconfig.json
OUTLINE
index.html
tsconfig.json
init.ts
style.css
src > init.ts > ...
const SHOW_ERROR_MESSAGES = 'show-error-message'
const form = document.querySelector('.form') as HTMLFormElement;
const username = document.querySelector('.username') as HTMLInputElement
const email = document.querySelector('.email') as HTMLInputElement
const password = document.querySelector('.password') as HTMLInputElement
const password2 = document.querySelector('.password2') as HTMLInputElement
// definindo o evento do form
form.addEventListener('submit', function(event: Event){
// eu quero que ele cancele o evento de submeter para ir para uma outra pagina
event.preventDefault();
excluirMSGErro(form)
verifcarCamposVazios(username,email,password,password2)
});
//funçao que vai verificar se os campos estão vazios
function verifcarCamposVazios(...inputs: HTMLInputElement[]):void{
inputs.forEach((campo) =>{
if(!campo.value){
// console.log(` ${campo.className} está vazio`)
apresentaMSGErro(campo,"Este campo não pode ser vazio")
}
})
}
//apagar todas as mensagens de erro
function excluirMSGErro(form: HTMLFormElement):void{
form.querySelectorAll('.' + SHOW_ERROR_MESSAGES).forEach((item) => {
item.classList.remove(SHOW_ERROR_MESSAGES)
})
}
// apresenta mensagem de erro abaixo do input que nao foi preenchido
function apresentaMSGErro(input:HTMLInputElement, msg:string):void{
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
1: node
[13:02:44] Found 0 errors. Watching for file changes.
0 0
Ln 52, Col 1 Spaces: 4 UTF-8 CRLF TypeScript Port : 5500 4.2.3

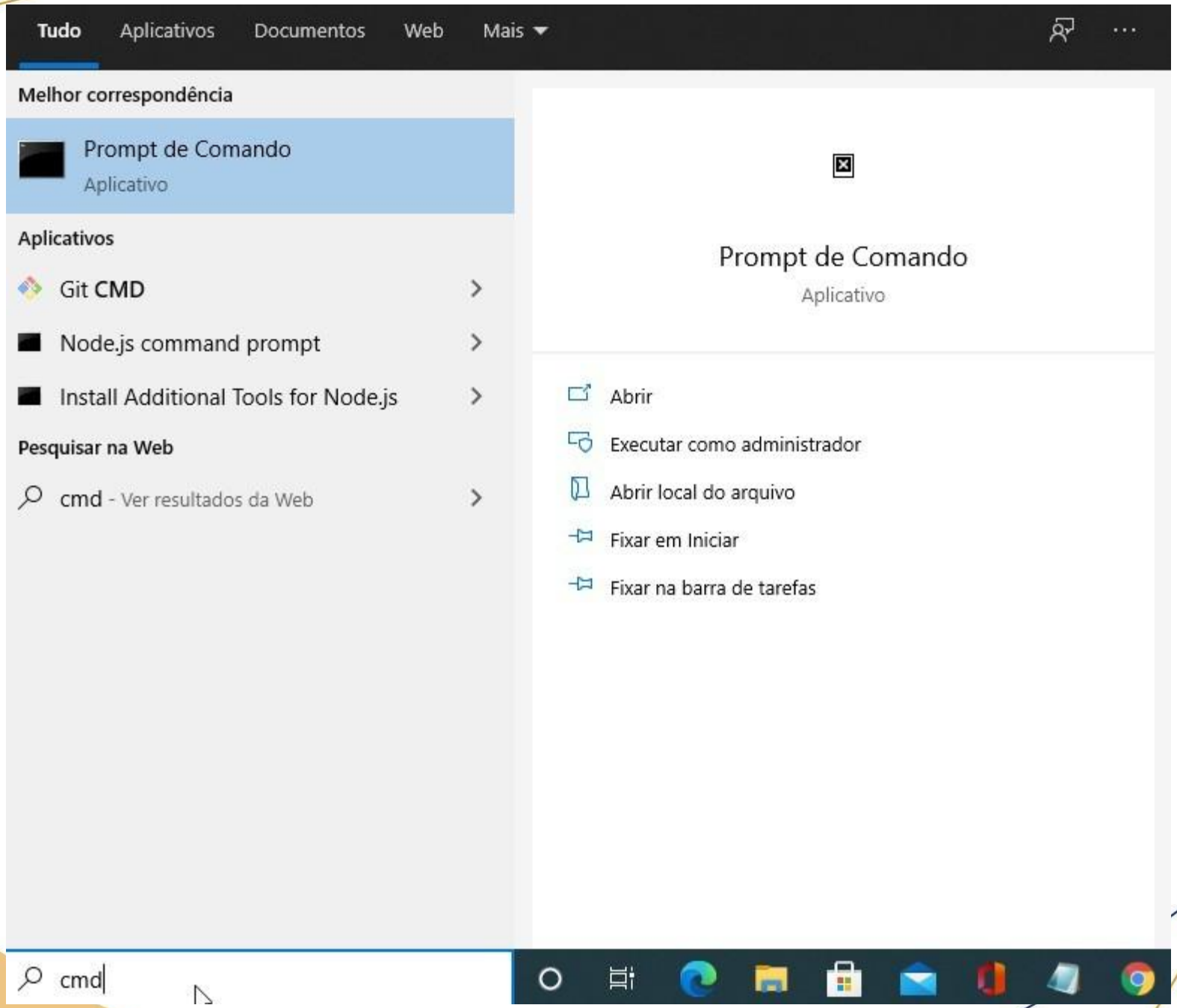

Faça seu cadastro
Seu usuário
Seu usuário
Este campo não pode ser vazio
Seu e-mail
Seu e-mail
Este campo não pode ser vazio
Sua senha
•••
Repetir senha
••
Enviar

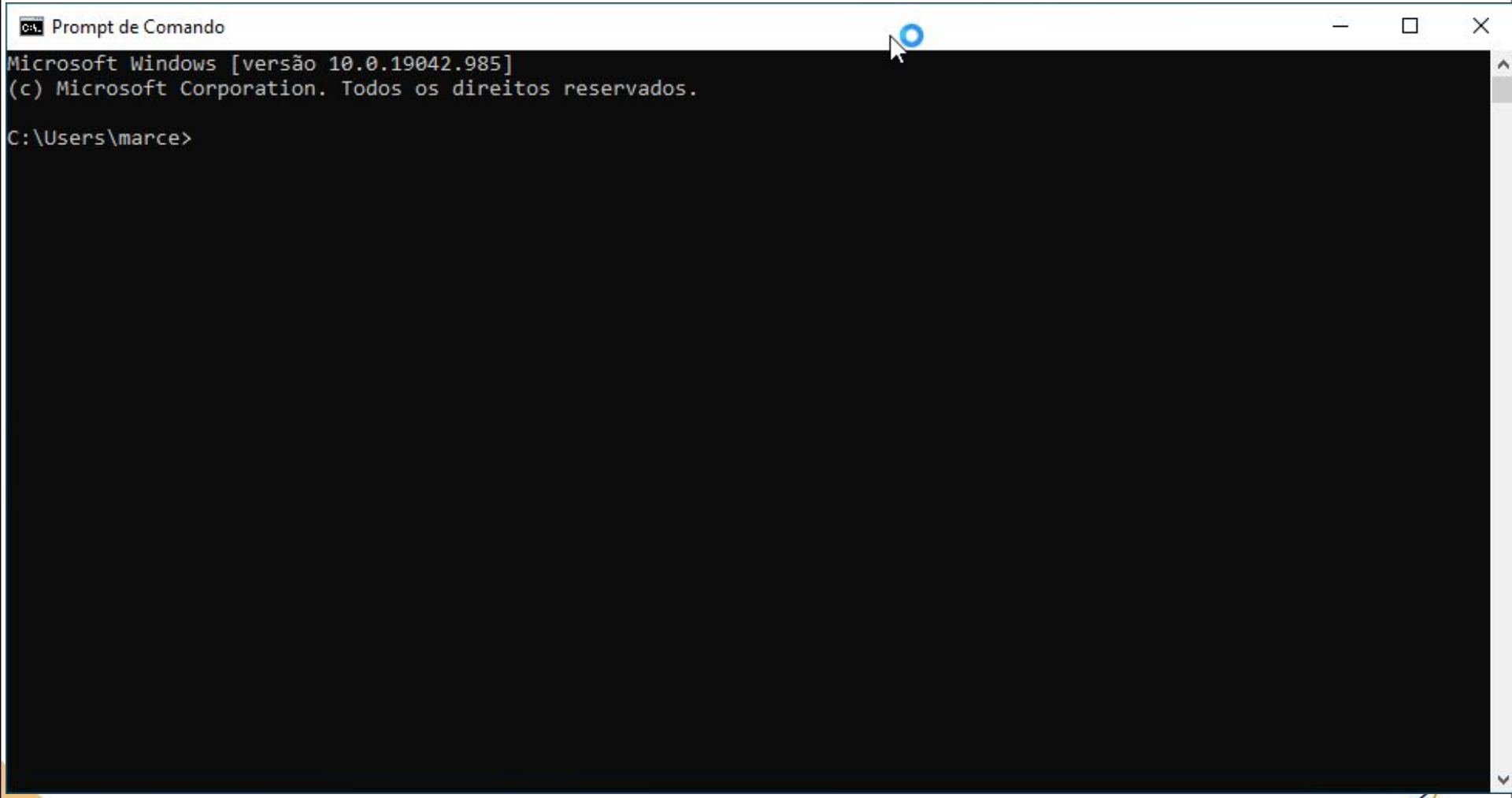
Angular

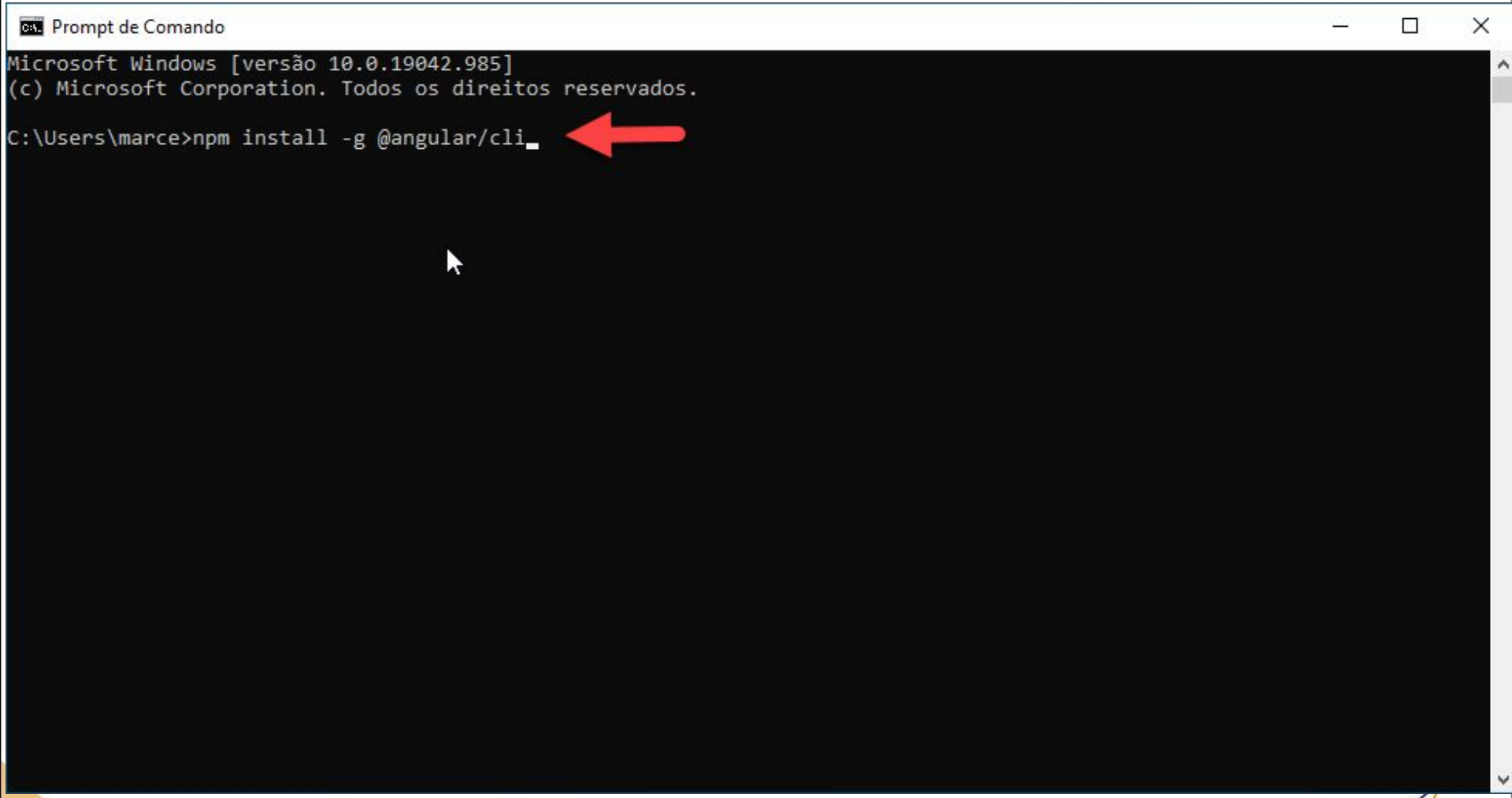

AppComponent
CabecalhoComponent
MenuComponent
ConteudoComponent

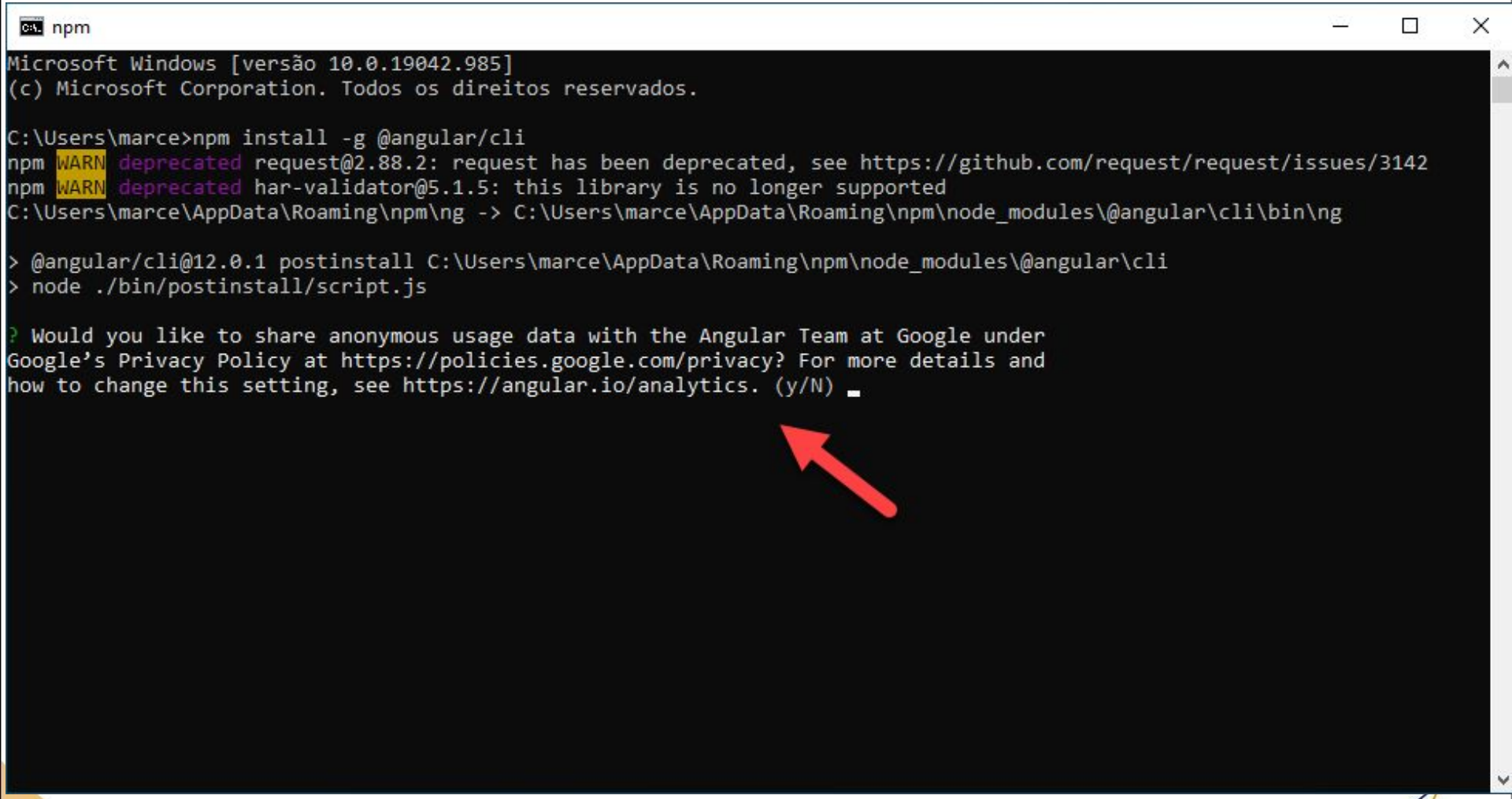


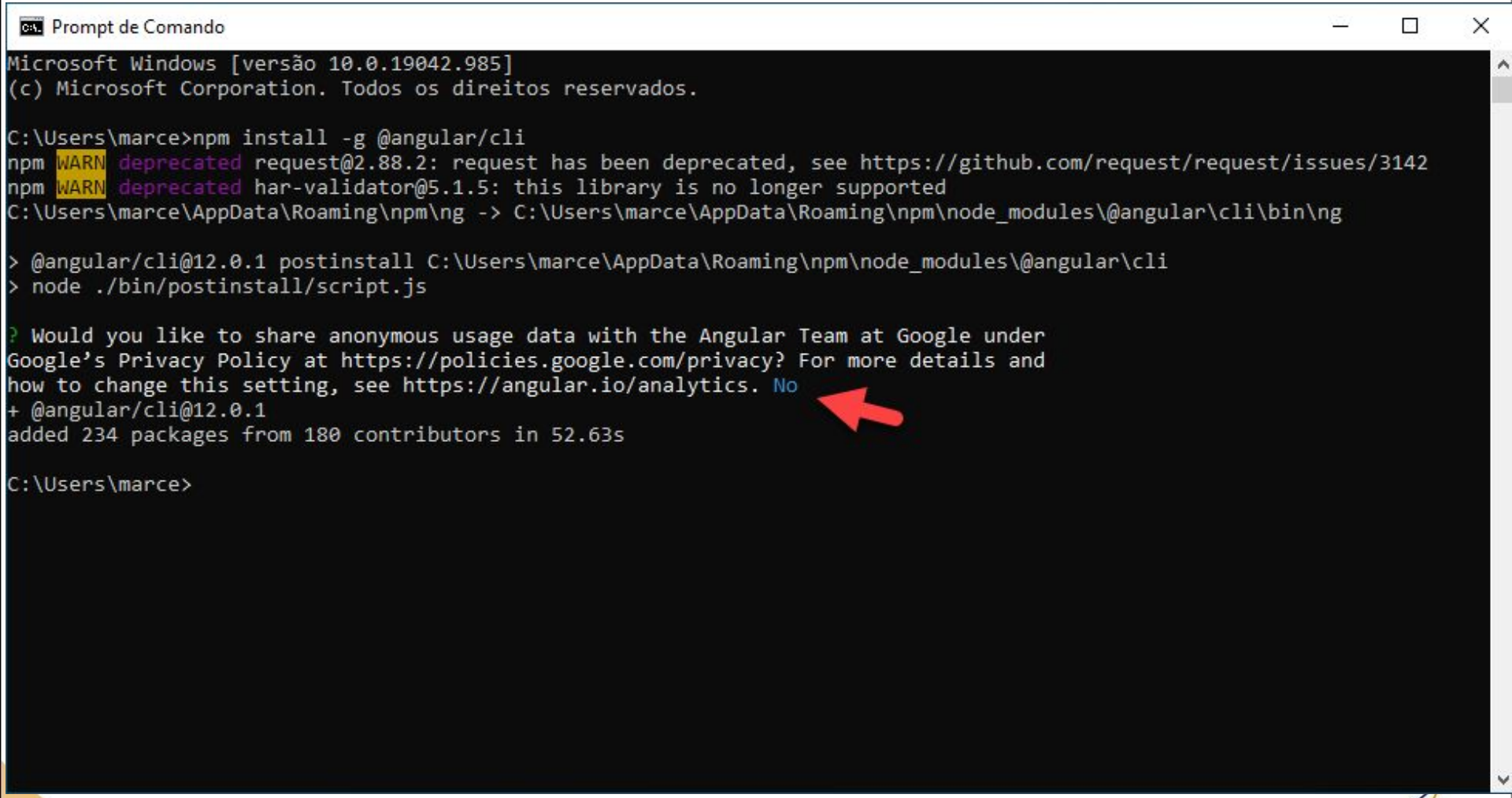
Componente é uma classe que informamos o selector, o html e o css


Tudo
Aplicativos
Documentos
Web
Mais
Melhor correspondência
Prompt de Comando
Aplicativo
Aplicativos
Git CMD
Node.js command prompt
Install Additional Tools for Node.js
Pesquisar na Web
cmd - Ver resultados da Web
Prompt de Comando
Aplicativo
Abrir
Executar como administrador
Abrir local do arquivo
Fixar em Iniciar
Fixar na barra de tarefas
cmd


Prompt de Comando
Microsoft Windows [versão 10.0.19042.985]
(c) Microsoft Corporation. Todos os direitos reservados.
C:\Users\marce>


Prompt de Comando
Microsoft Windows [versão 10.0.19042.985]
(c) Microsoft Corporation. Todos os direitos reservados.
C:\Users\marce>npm install -g @angular/cli

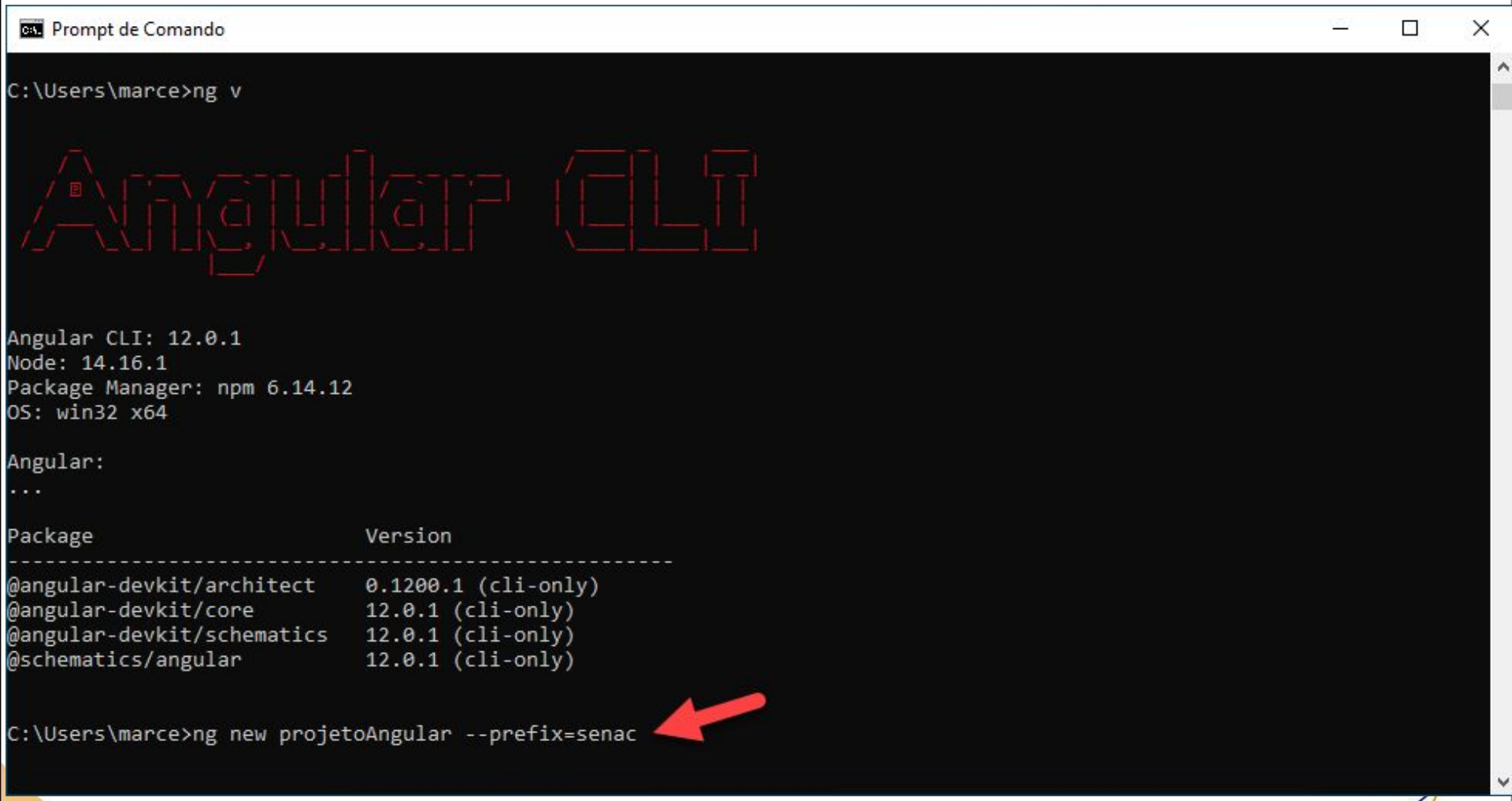

npm
Microsoft Windows [versão 10.0.19042.985]
(c) Microsoft Corporation. Todos os direitos reservados.
C:\Users\marce>npm install -g @angular/cli
npm WARN deprecated request@2.88.2: request has been deprecated, see https://github.com/request/request/issues/3142
npm WARN deprecated har-validator@5.1.5: this library is no longer supported
C:\Users\marce\AppData\Roaming\npm\ng -> C:\Users\marce\AppData\Roaming\npm\node_modules\@angular\cli\bin\ng
> @angular/cli@12.0.1 postinstall C:\Users\marce\AppData\Roaming\npm\node_modules\@angular\cli
> node ./bin/postinstall/script.js
? Would you like to share anonymous usage data with the Angular Team at Google under
Google's Privacy Policy at https://policies.google.com/privacy? For more details and
how to change this setting, see https://angular.io/analytics. (y/N)

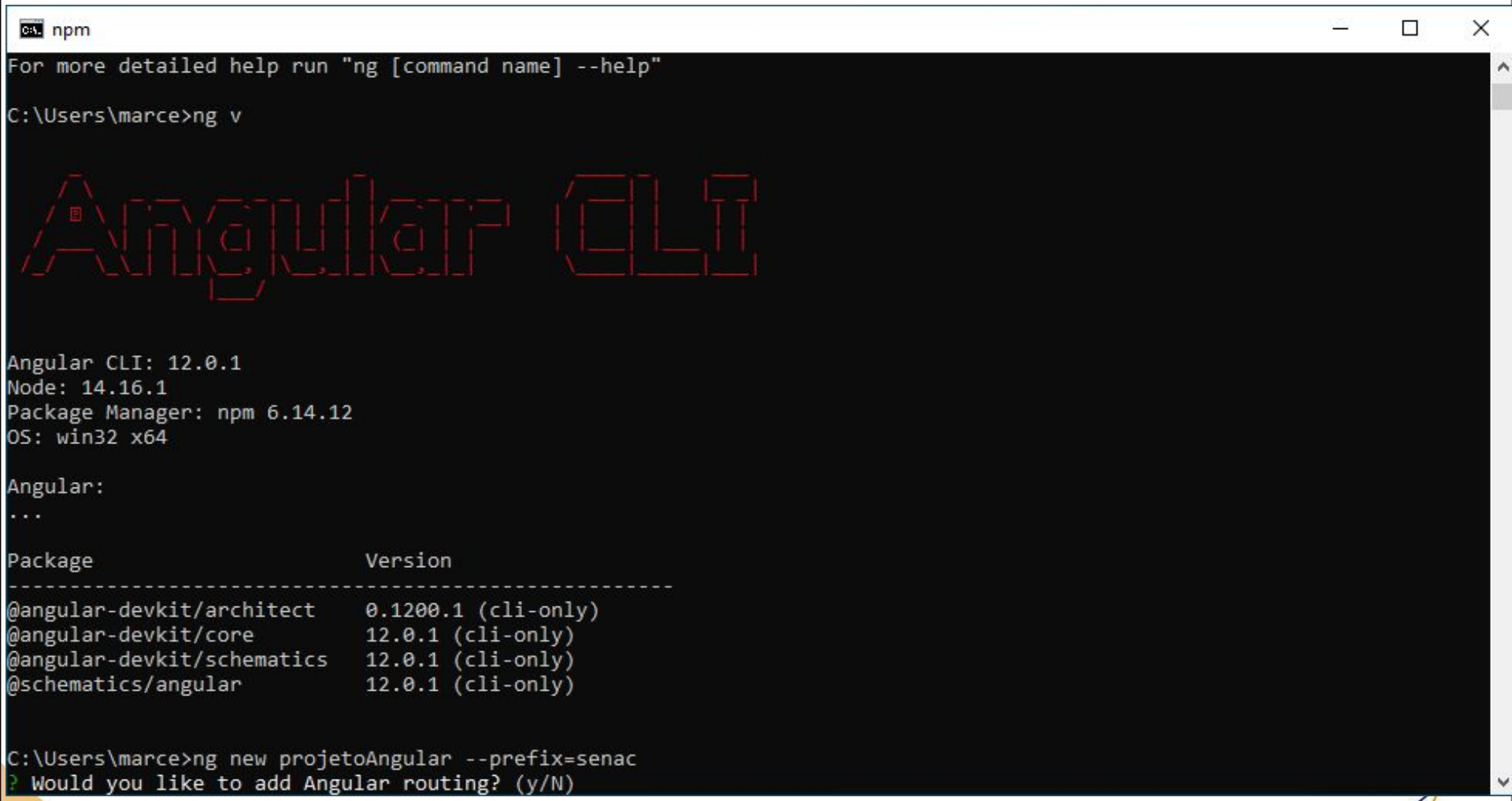

Prompt de Comando
Microsoft Windows [versão 10.0.19042.985]
(c) Microsoft Corporation. Todos os direitos reservados.
C:\Users\marce>npm install -g @angular/cli
npm WARN deprecated request@2.88.2: request has been deprecated, see https://github.com/request/request/issues/3142
npm WARN deprecated har-validator@5.1.5: this library is no longer supported
C:\Users\marce\AppData\Roaming\npm\ng -> C:\Users\marce\AppData\Roaming\npm\node_modules\@angular\cli\bin\ng
> @angular/cli@12.0.1 postinstall C:\Users\marce\AppData\Roaming\npm\node_modules\@angular\cli
> node ./bin/postinstall/script.js
? Would you like to share anonymous usage data with the Angular Team at Google under
Google's Privacy Policy at https://policies.google.com/privacy? For more details and
how to change this setting, see https://angular.io/analytics. No
+ @angular/cli@12.0.1
added 234 packages from 180 contributors in 52.63s
C:\Users\marce>

Prompt de Comando

```
C:\Users\marce>ng v
```

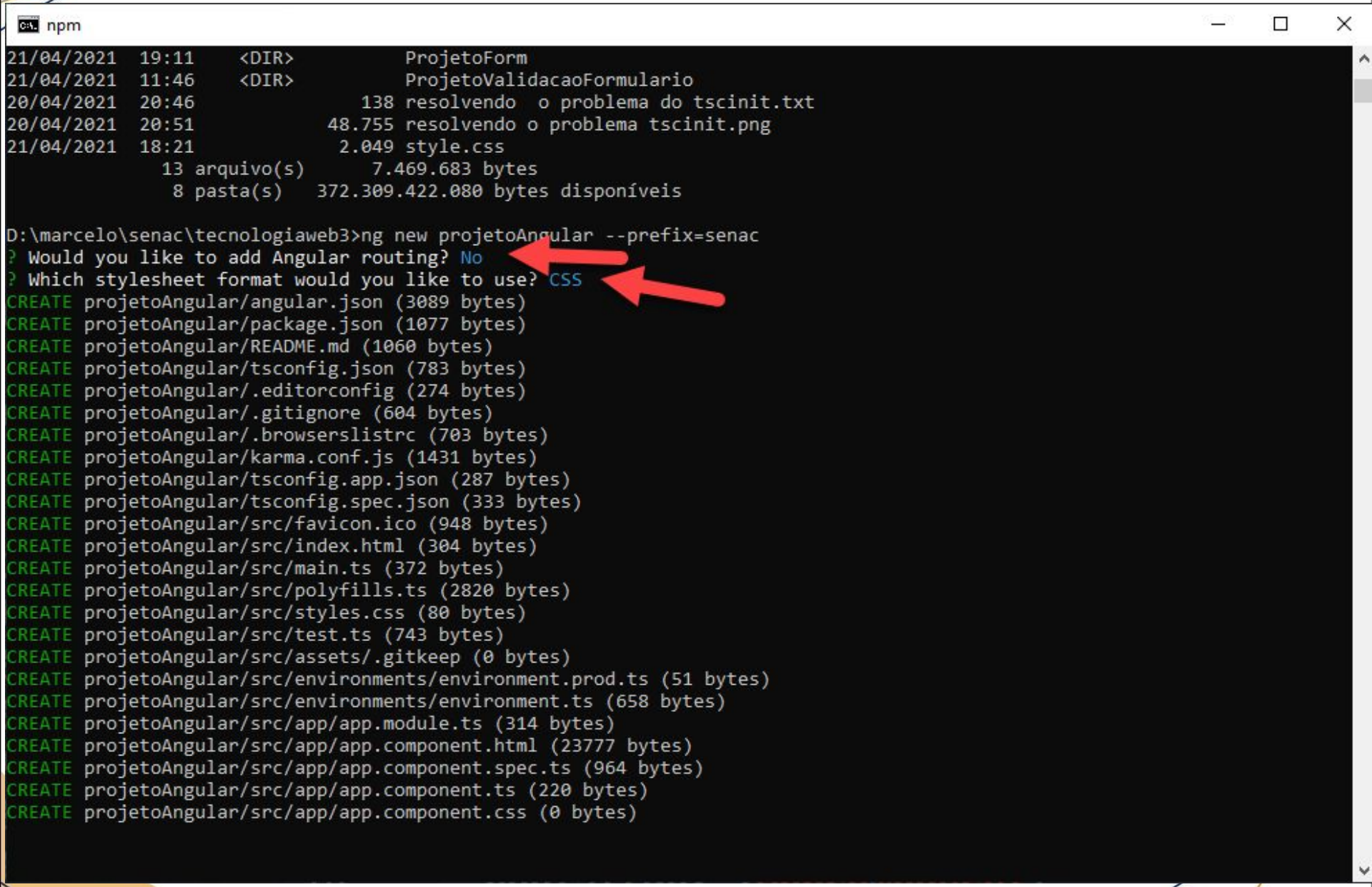

```
Angular CLI: 12.0.1
Node: 14.16.1
Package Manager: npm 6.14.12
OS: win32 x64

Angular:
...

Package                      Version
------------------------------------------------------
@angular-devkit/architect    0.1200.1 (cli-only)
@angular-devkit/core         12.0.1 (cli-only)
@angular-devkit/schematics   12.0.1 (cli-only)
@schematics/angular          12.0.1 (cli-only)


C:\Users\marce>
```

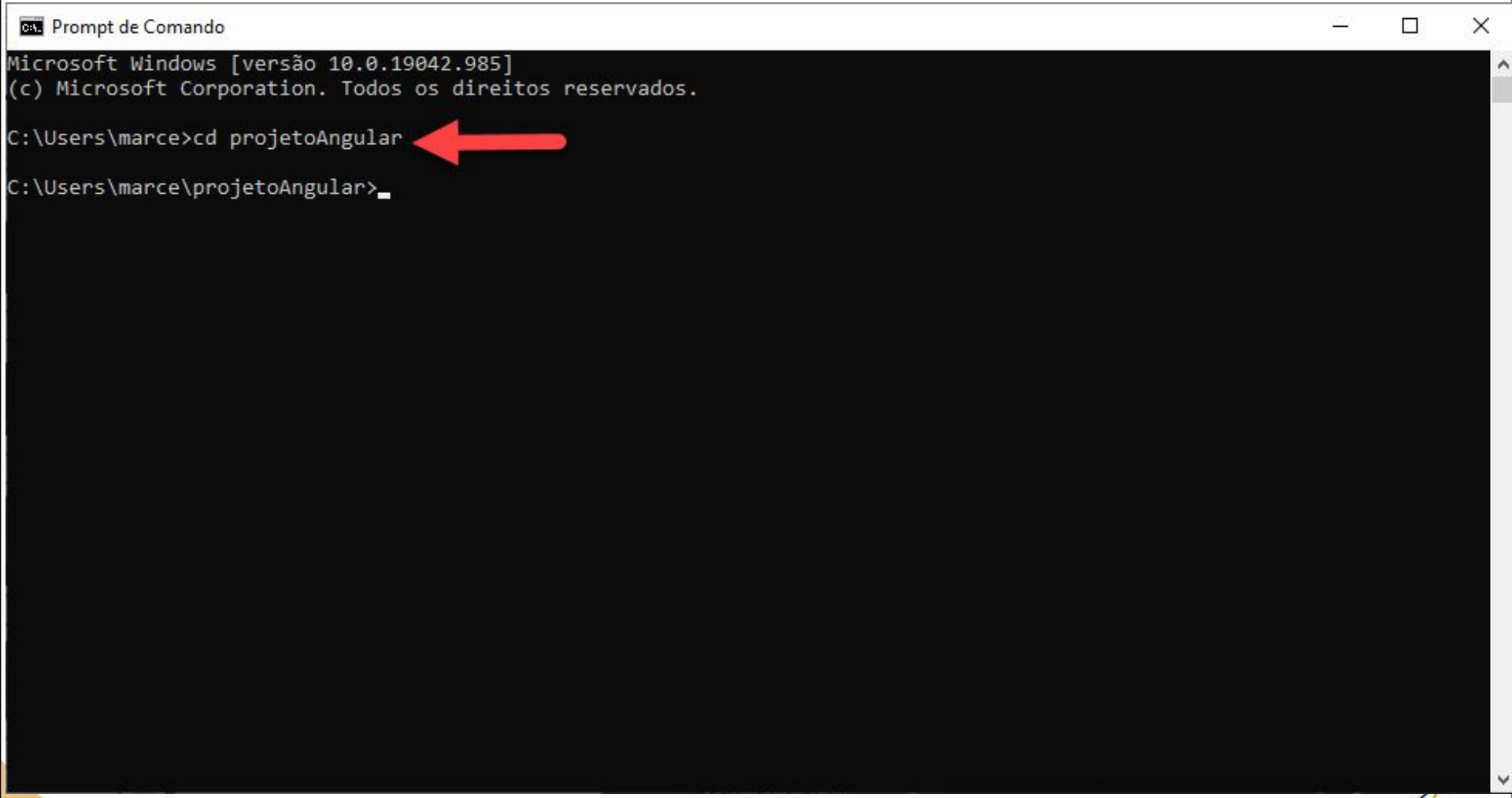

Prompt de Comando
C:\Users\marce>ng v
Angular CLI
Angular CLI: 12.0.1
Node: 14.16.1
Package Manager: npm 6.14.12
OS: win32 x64
Angular:
...
Package Version
@angular-devkit/architect 0.1200.1 (cli-only)
@angular-devkit/core 12.0.1 (cli-only)
@angular-devkit/schematics 12.0.1 (cli-only)
@schematics/angular 12.0.1 (cli-only)
C:\Users\marce>ng new projetoAngular --prefix=senac

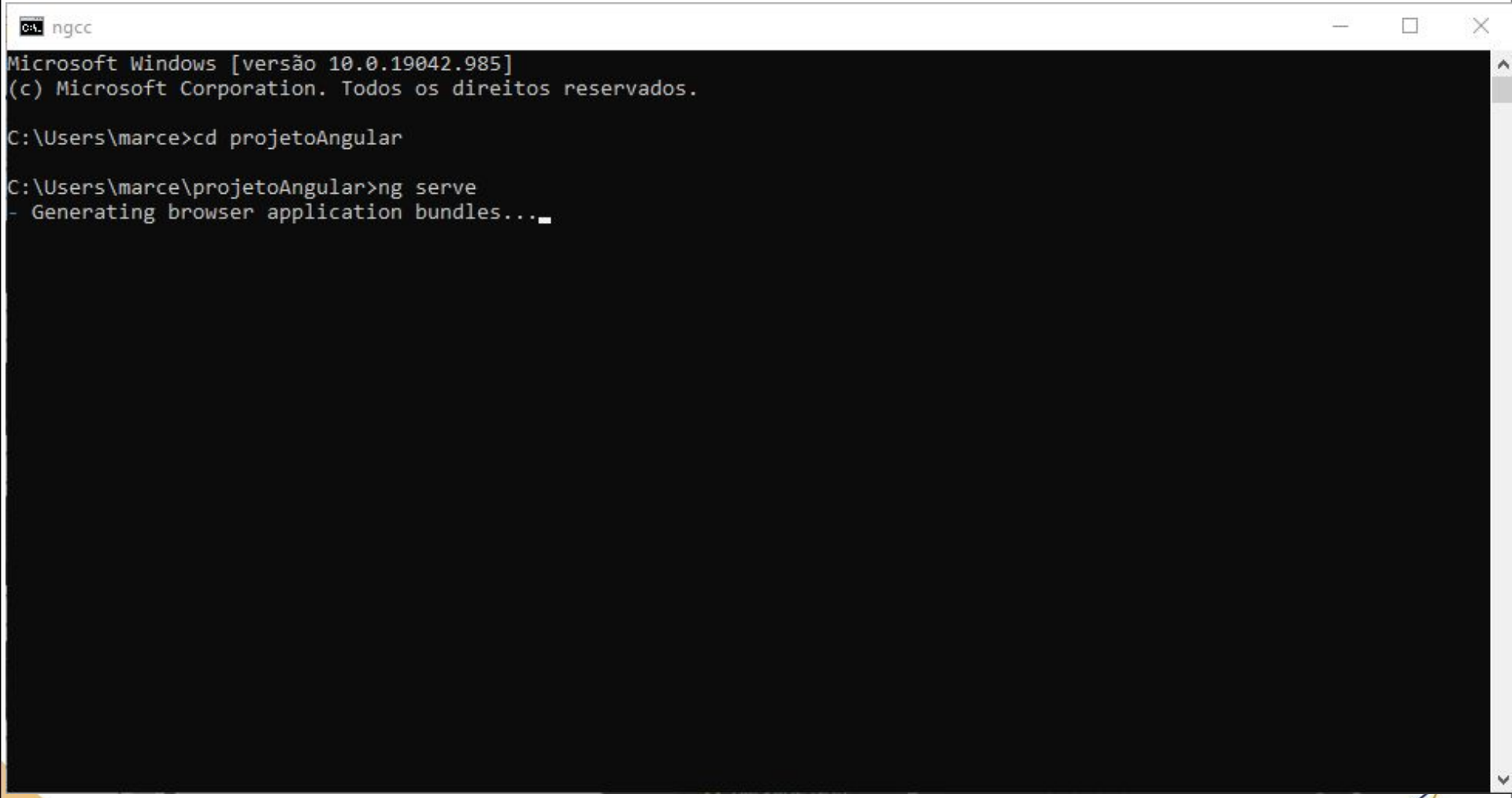


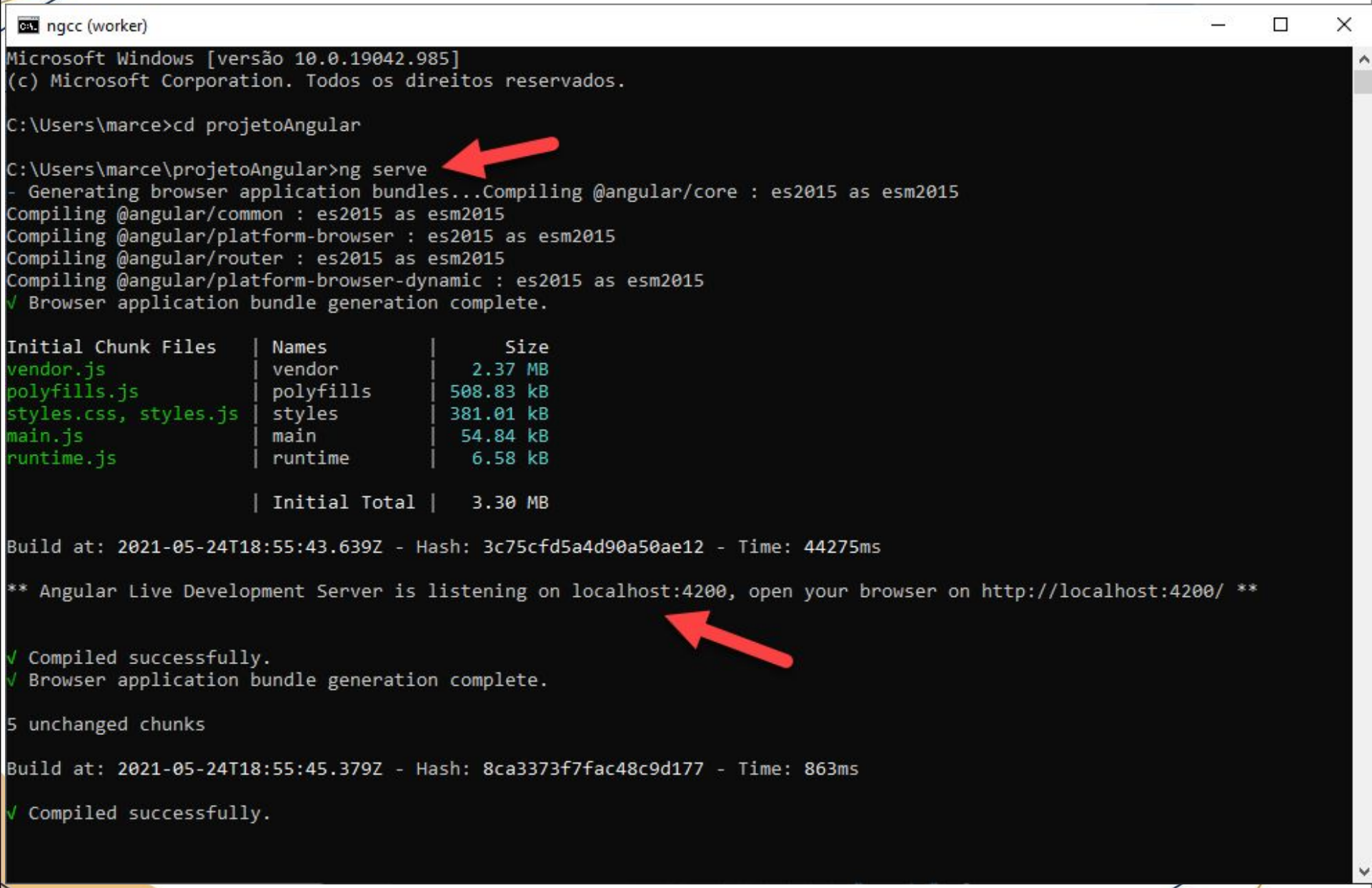
Só dar enter, para escolher NO

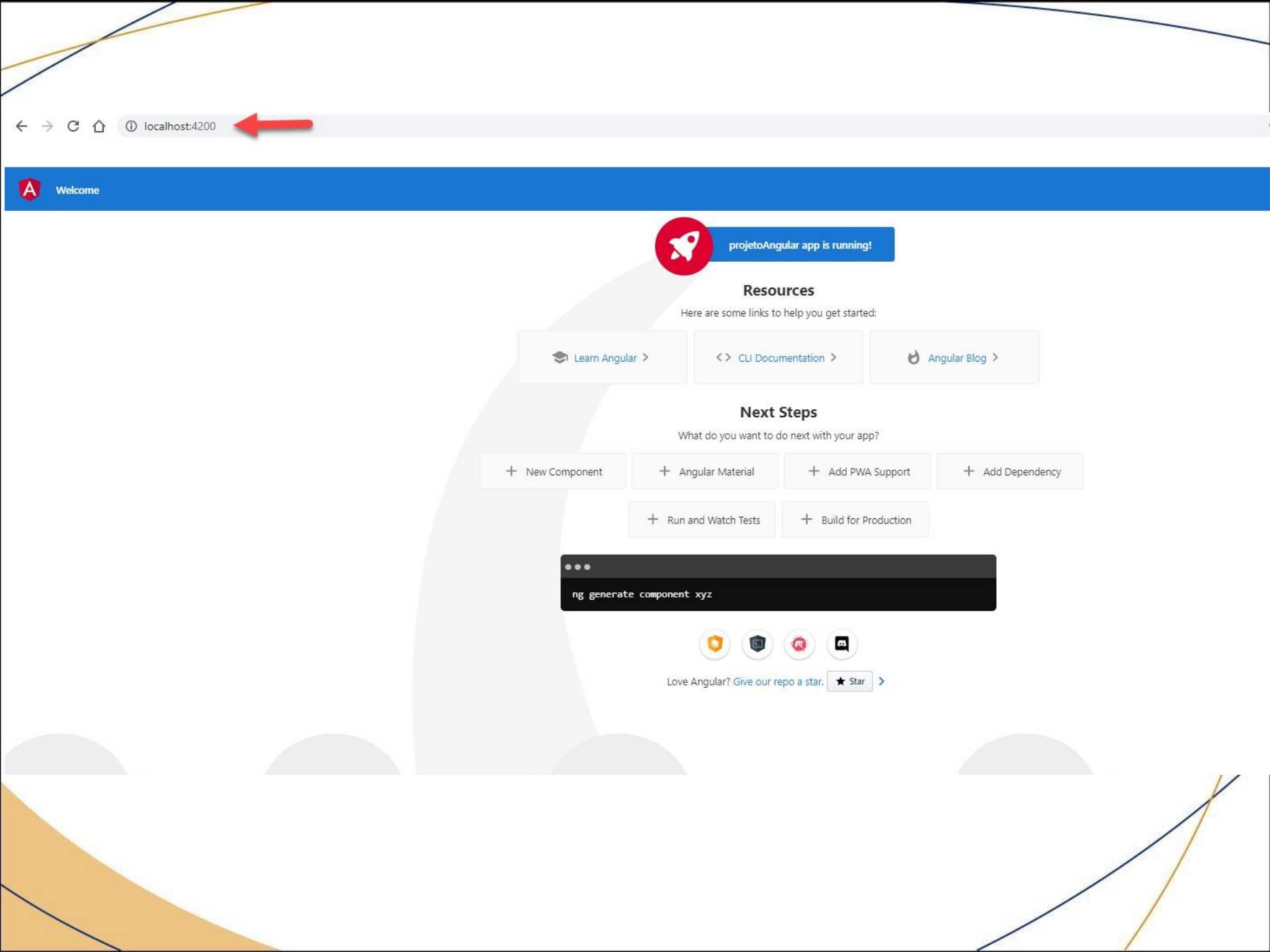
Defina css

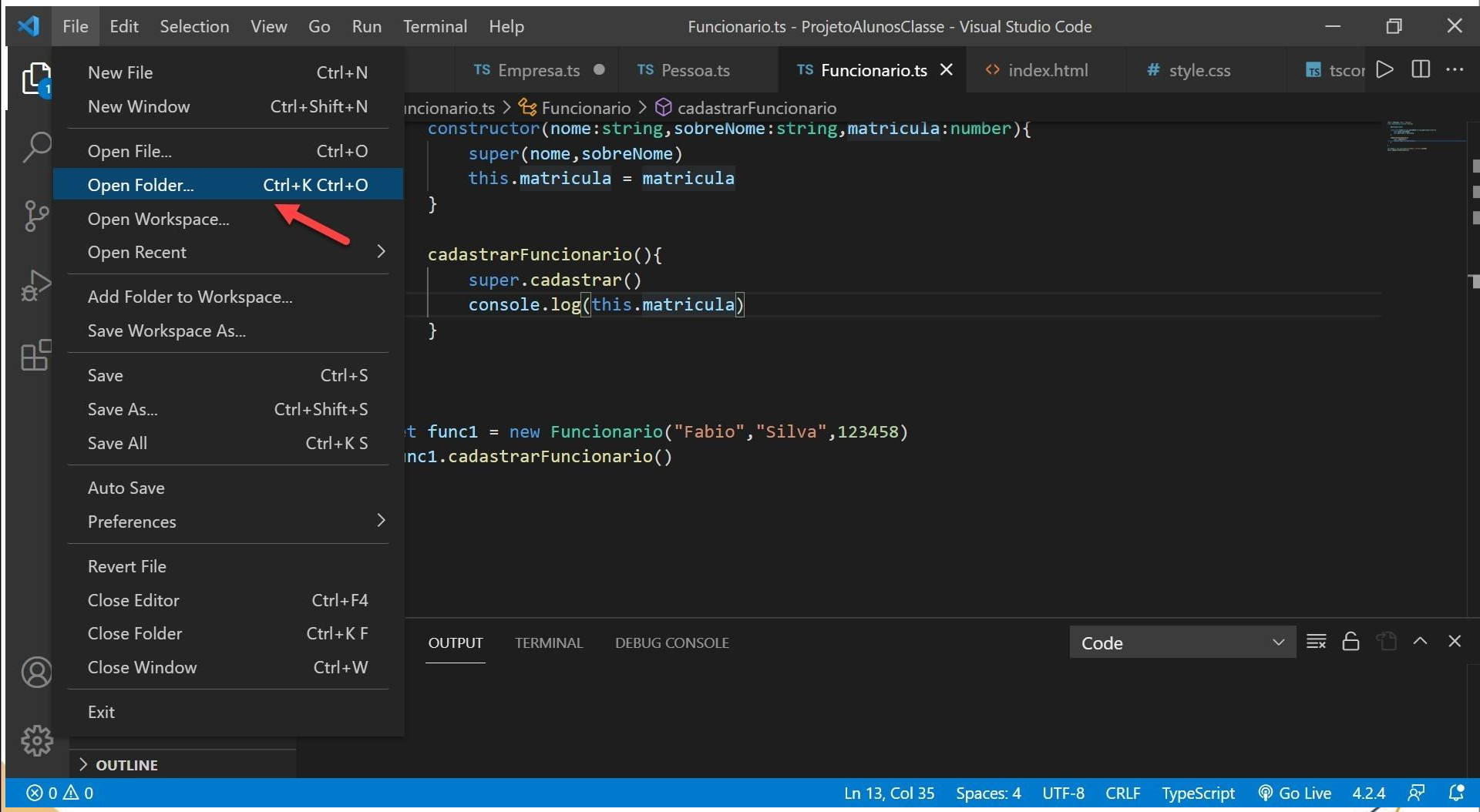

npm
21/04/2021 19:11 <DIR> ProjetoForm
21/04/2021 11:46 <DIR> ProjetoValidacaoFormulario
20/04/2021 20:46 138 resolvendo o problema do tscinit.txt
20/04/2021 20:51 48.755 resolvendo o problema tscinit.png
21/04/2021 18:21 2.049 style.css
13 arquivo(s) 7.469.683 bytes
8 pasta(s) 372.309.422.080 bytes disponíveis
D:\marcelo\senac\tecnologiaweb3>ng new projetoAngular --prefix=senac
? Would you like to add Angular routing? No
? Which stylesheet format would you like to use? CSS
CREATE projetoAngular/angular.json (3089 bytes)
CREATE projetoAngular/package.json (1077 bytes)
CREATE projetoAngular/README.md (1060 bytes)
CREATE projetoAngular/tsconfig.json (783 bytes)
CREATE projetoAngular/.editorconfig (274 bytes)
CREATE projetoAngular/.gitignore (604 bytes)
CREATE projetoAngular/.browserslistrc (703 bytes)
CREATE projetoAngular/karma.conf.js (1431 bytes)
CREATE projetoAngular/tsconfig.app.json (287 bytes)
CREATE projetoAngular/tsconfig.spec.json (333 bytes)
CREATE projetoAngular/src/favicon.ico (948 bytes)
CREATE projetoAngular/src/index.html (304 bytes)
CREATE projetoAngular/src/main.ts (372 bytes)
CREATE projetoAngular/src/polyfills.ts (2820 bytes)
CREATE projetoAngular/src/styles.css (80 bytes)
CREATE projetoAngular/src/test.ts (743 bytes)
CREATE projetoAngular/src/assets/.gitkeep (0 bytes)
CREATE projetoAngular/src/environments/environment.prod.ts (51 bytes)
CREATE projetoAngular/src/environments/environment.ts (658 bytes)
CREATE projetoAngular/src/app/app.module.ts (314 bytes)
CREATE projetoAngular/src/app/app.component.html (23777 bytes)
CREATE projetoAngular/src/app/app.component.spec.ts (964 bytes)
CREATE projetoAngular/src/app/app.component.ts (220 bytes)
CREATE projetoAngular/src/app/app.component.css (0 bytes)

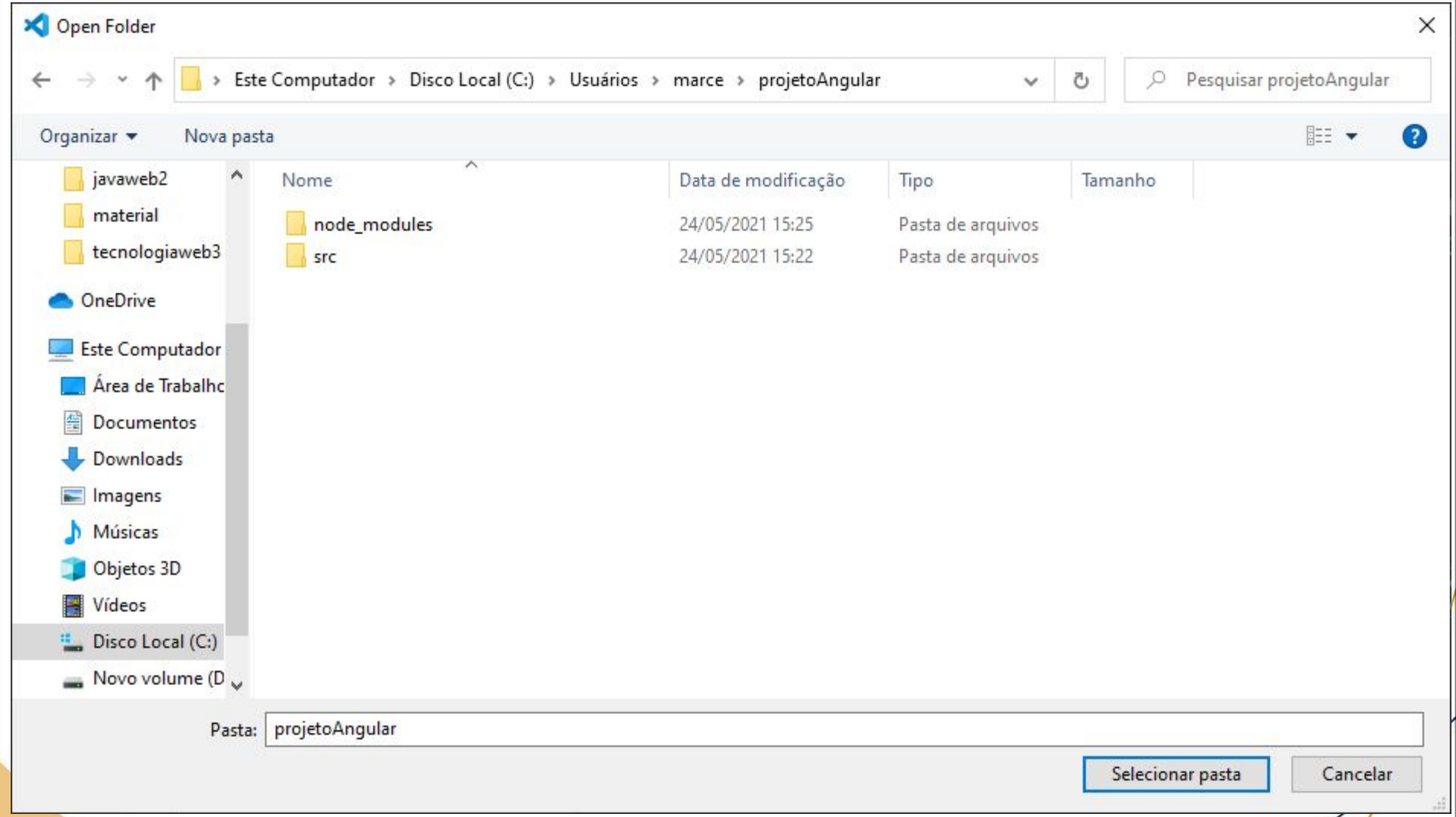

Prompt de Comando
Microsoft Windows [versão 10.0.19042.985]
(c) Microsoft Corporation. Todos os direitos reservados.
C:\Users\marce>cd projetoAngular
C:\Users\marce\projetoAngular>

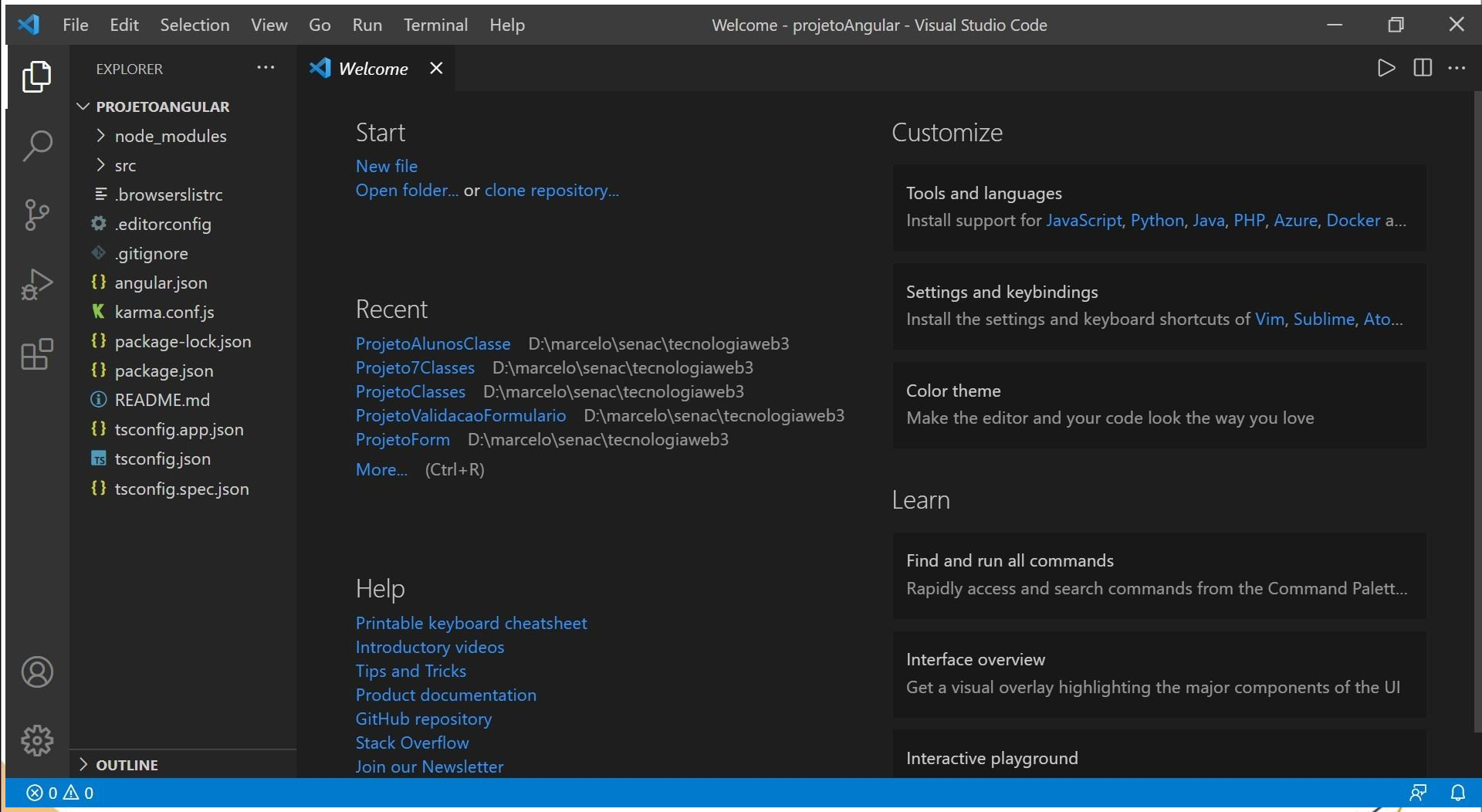

ngcc
Microsoft Windows [versão 10.0.19042.985]
(c) Microsoft Corporation. Todos os direitos reservados.
C:\Users\marce>cd projetoAngular
C:\Users\marce\projetoAngular>ng serve
- Generating browser application bundles...


ngcc (worker)
Microsoft Windows [versão 10.0.19042.985]
(c) Microsoft Corporation. Todos os direitos reservados.
C:\Users\marce>cd projetoAngular
C:\Users\marce\projetoAngular>ng serve
- Generating browser application bundles...Compiling @angular/core : es2015 as esm2015
Compiling @angular/common : es2015 as esm2015
Compiling @angular/platform-browser : es2015 as esm2015
Compiling @angular/router : es2015 as esm2015
Compiling @angular/platform-browser-dynamic : es2015 as esm2015
√ Browser application bundle generation complete.
Initial Chunk Files | Names | Size
vendor.js | vendor | 2.37 MB
polyfills.js | polyfills | 508.83 kB
styles.css, styles.js | styles | 381.01 kB
main.js | main | 54.84 kB
runtime.js | runtime | 6.58 kB
| Initial Total | 3.30 MB
Build at: 2021-05-24T18:55:43.639Z - Hash: 3c75cfd5a4d90a50ae12 - Time: 44275ms
** Angular Live Development Server is listening on localhost:4200, open your browser on http://localhost:4200/ **
√ Compiled successfully.
√ Browser application bundle generation complete.
5 unchanged chunks
Build at: 2021-05-24T18:55:45.379Z - Hash: 8ca3373f7fac48c9d177 - Time: 863ms
√ Compiled successfully.

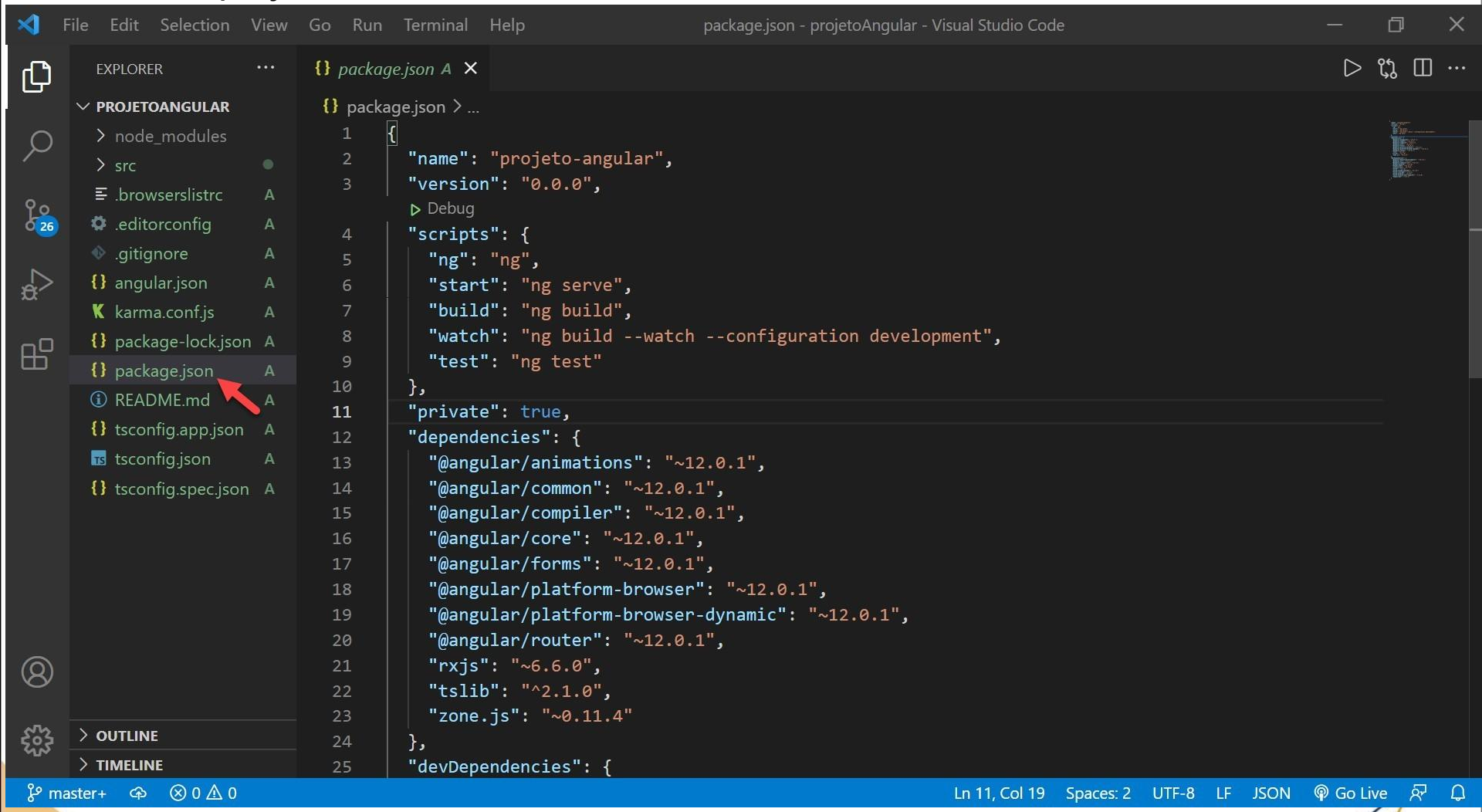

localhost:4200
Welcome
projetoAngular app is running!
Resources
Here are some links to help you get started:
Learn Angular
CLI Documentation
Angular Blog
Next Steps
What do you want to do next with your app?
New Component
Angular Material
Add PWA Support
Add Dependency
Run and Watch Tests
Build for Production
ng generate component xyz
Love Angular? Give our repo a star.
Star


File Edit Selection View Go Run Terminal Help
Funcionario.ts - ProjetoAlunosClasse - Visual Studio Code
New File Ctrl+N
New Window Ctrl+Shift+N
Open File... Ctrl+O
Open Folder... Ctrl+K Ctrl+O
Open Workspace...
Open Recent
Add Folder to Workspace...
Save Workspace As...
Save Ctrl+S
Save As... Ctrl+Shift+S
Save All Ctrl+K S
Auto Save
Preferences
Revert File
Close Editor Ctrl+F4
Close Folder Ctrl+K F
Close Window Ctrl+W
Exit
Empresa.ts
Pessoa.ts
Funcionario.ts
index.html
style.css
Funcionario > cadastrarFuncionario
constructor(nome:string,sobreNome:string,matricula:number){
super(nome,sobreNome)
this.matricula = matricula
}
cadastrarFuncionario(){
super.cadastrar()
console.log(this.matricula)
}
t func1 = new Funcionario("Fabio","Silva",123458)
nc1.cadastrarFuncionario()
OUTPUT TERMINAL DEBUG CONSOLE
Code
OUTLINE
Ln 13, Col 35 Spaces: 4 UTF-8 CRLF TypeScript Go Live 4.2.4

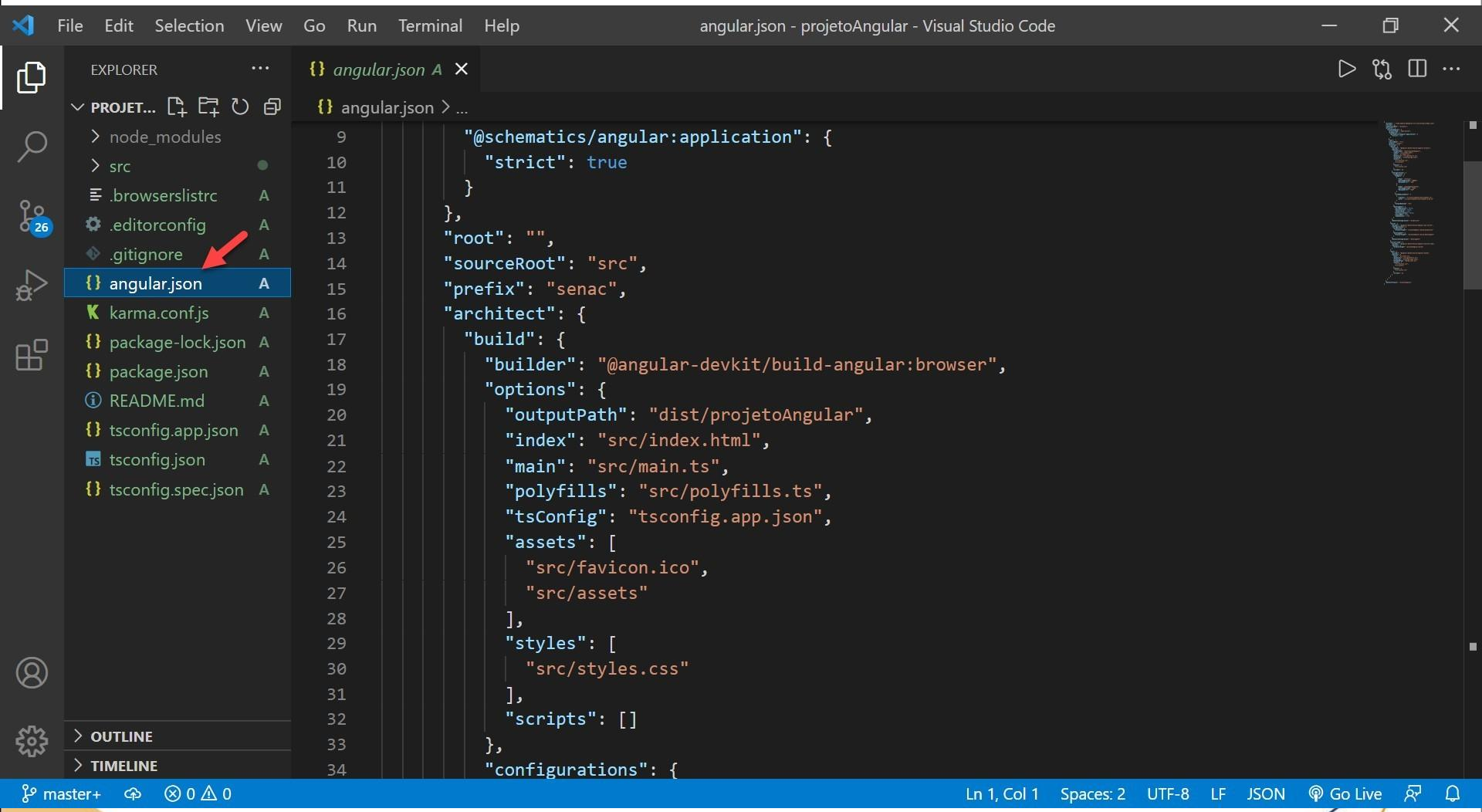

Open Folder
Este Computador › Disco Local (C:) › Usuários › marce › projetoAngular
Pesquisar projetoAngular
Organizar
Nova pasta
javaweb2
material
tecnologiaweb3
OneDrive
Este Computador
Área de Trabalhc
Documentos
Downloads
Imagens
Músicas
Objetos 3D
Vídeos
Disco Local (C:)
Novo volume (D
Nome
Data de modificação
Tipo
Tamanho
node_modules
24/05/2021 15:25
Pasta de arquivos
src
24/05/2021 15:22
Pasta de arquivos
Pasta:
projetoAngular
Selecionar pasta
Cancelar


File Edit Selection View Go Run Terminal Help
Welcome - projetoAngular - Visual Studio Code
EXPLORER
PROJETOANGULAR
node_modules
src
.browserslistrc
.editorconfig
.gitignore
angular.json
karma.conf.js
package-lock.json
package.json
README.md
tsconfig.app.json
tsconfig.json
tsconfig.spec.json
OUTLINE
Welcome
Start
New file
Open folder... or clone repository...
Recent
ProjetoAlunosClasse D:\marcelo\senac\tecnologiaweb3
Projeto7Classes D:\marcelo\senac\tecnologiaweb3
ProjetoClasses D:\marcelo\senac\tecnologiaweb3
ProjetoValidacaoFormulario D:\marcelo\senac\tecnologiaweb3
ProjetoForm D:\marcelo\senac\tecnologiaweb3
More... (Ctrl+R)
Help
Printable keyboard cheatsheet
Introductory videos
Tips and Tricks
Product documentation
GitHub repository
Stack Overflow
Join our Newsletter
Customize
Tools and languages
Install support for JavaScript, Python, Java, PHP, Azure, Docker a...
Settings and keybindings
Install the settings and keyboard shortcuts of Vim, Sublime, Ato...
Color theme
Make the editor and your code look the way you love
Learn
Find and run all commands
Rapidly access and search commands from the Command Palett...
Interface overview
Get a visual overlay highlighting the major components of the UI
Interactive playground
0 0

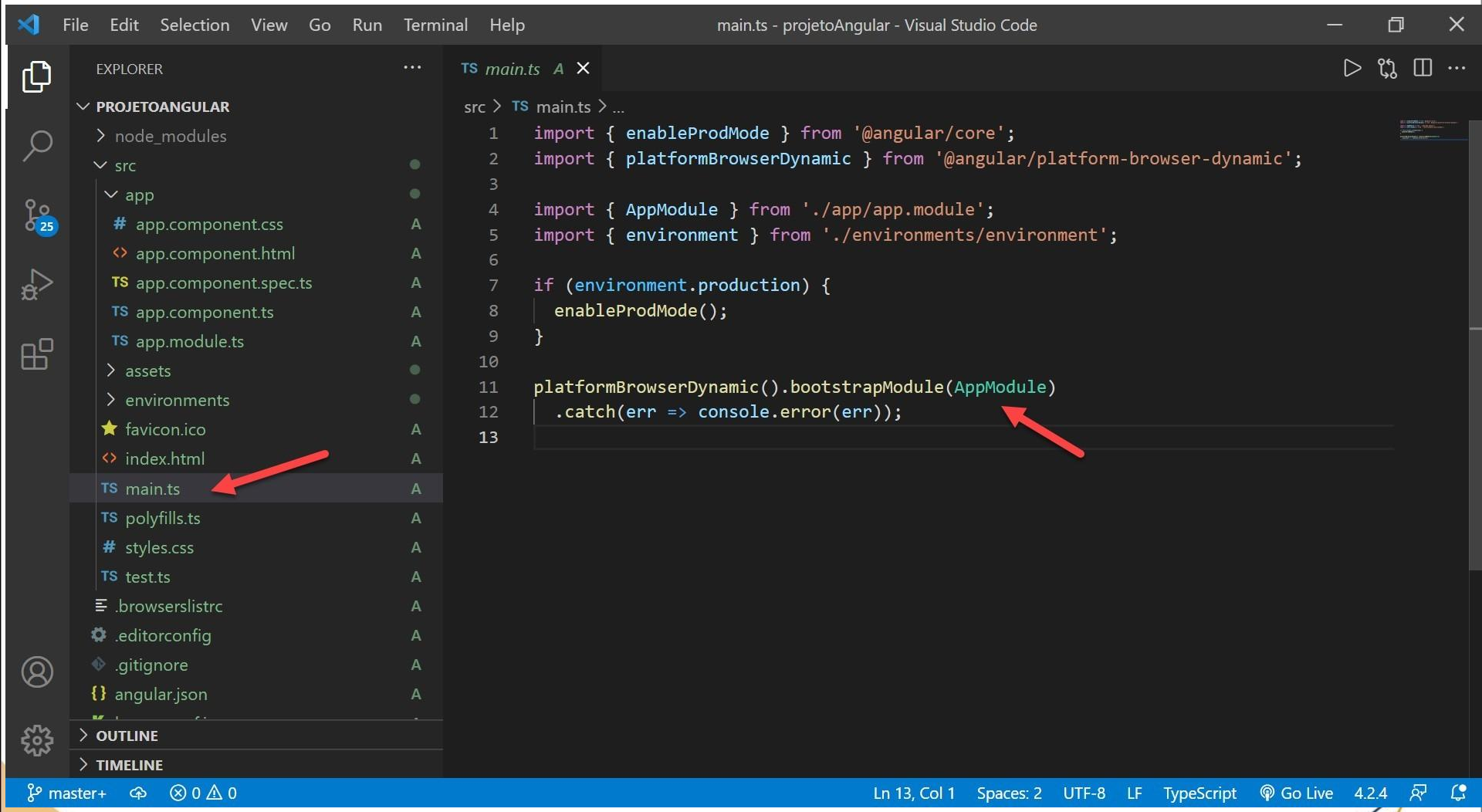
Arquivo de configuração e relaciona as dependências do projeto



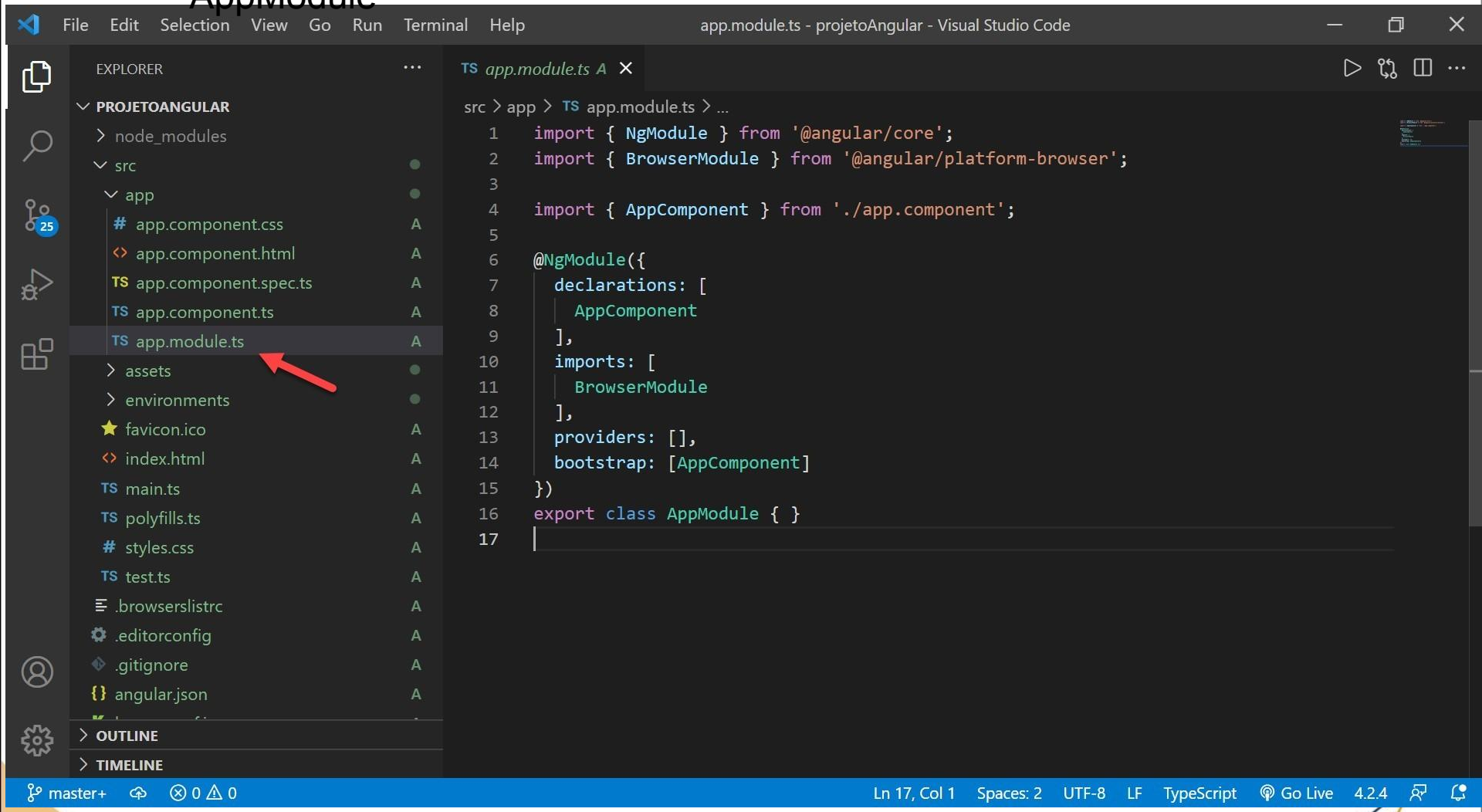
Arquivo de configuração do Angular



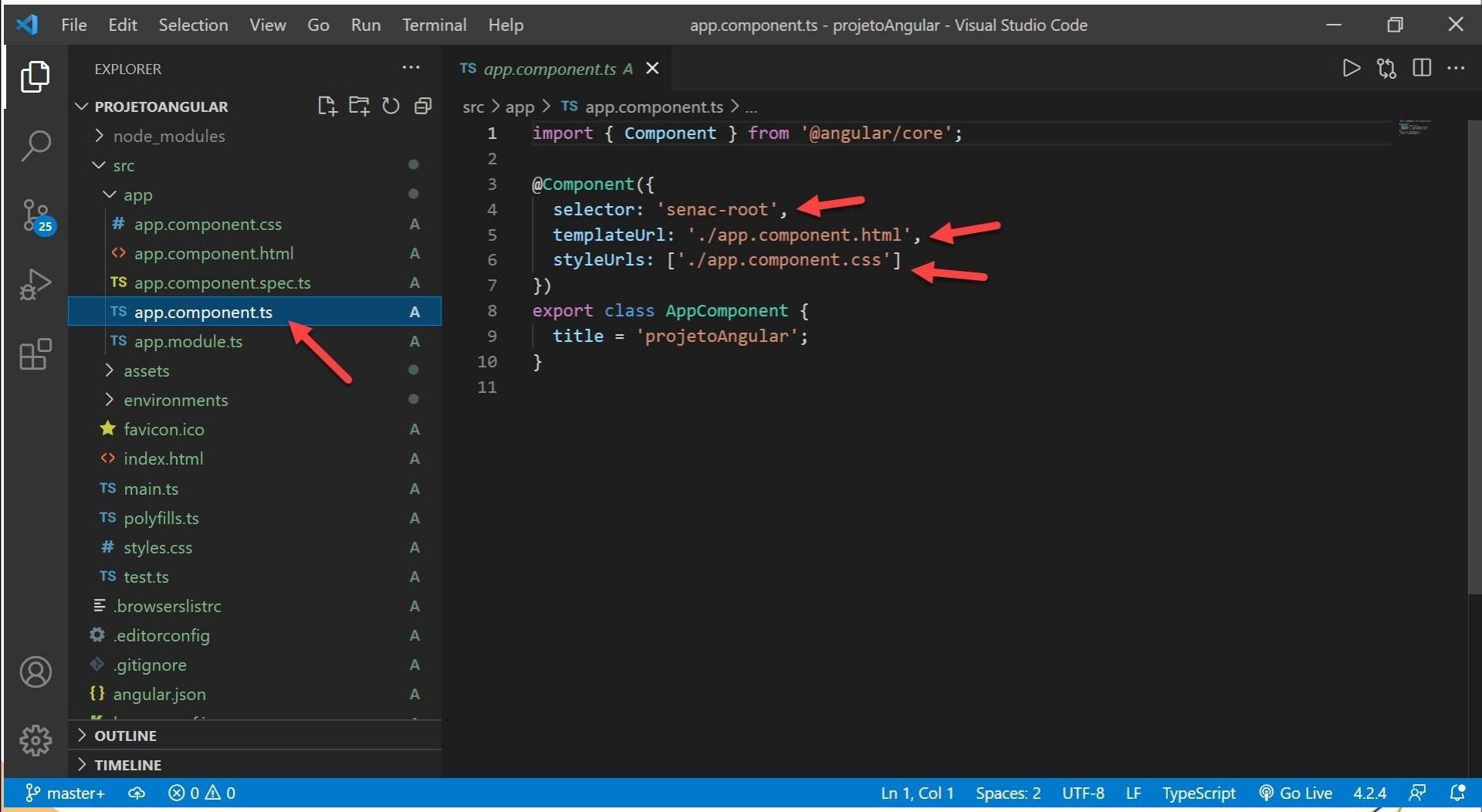
Tudo começa aqui



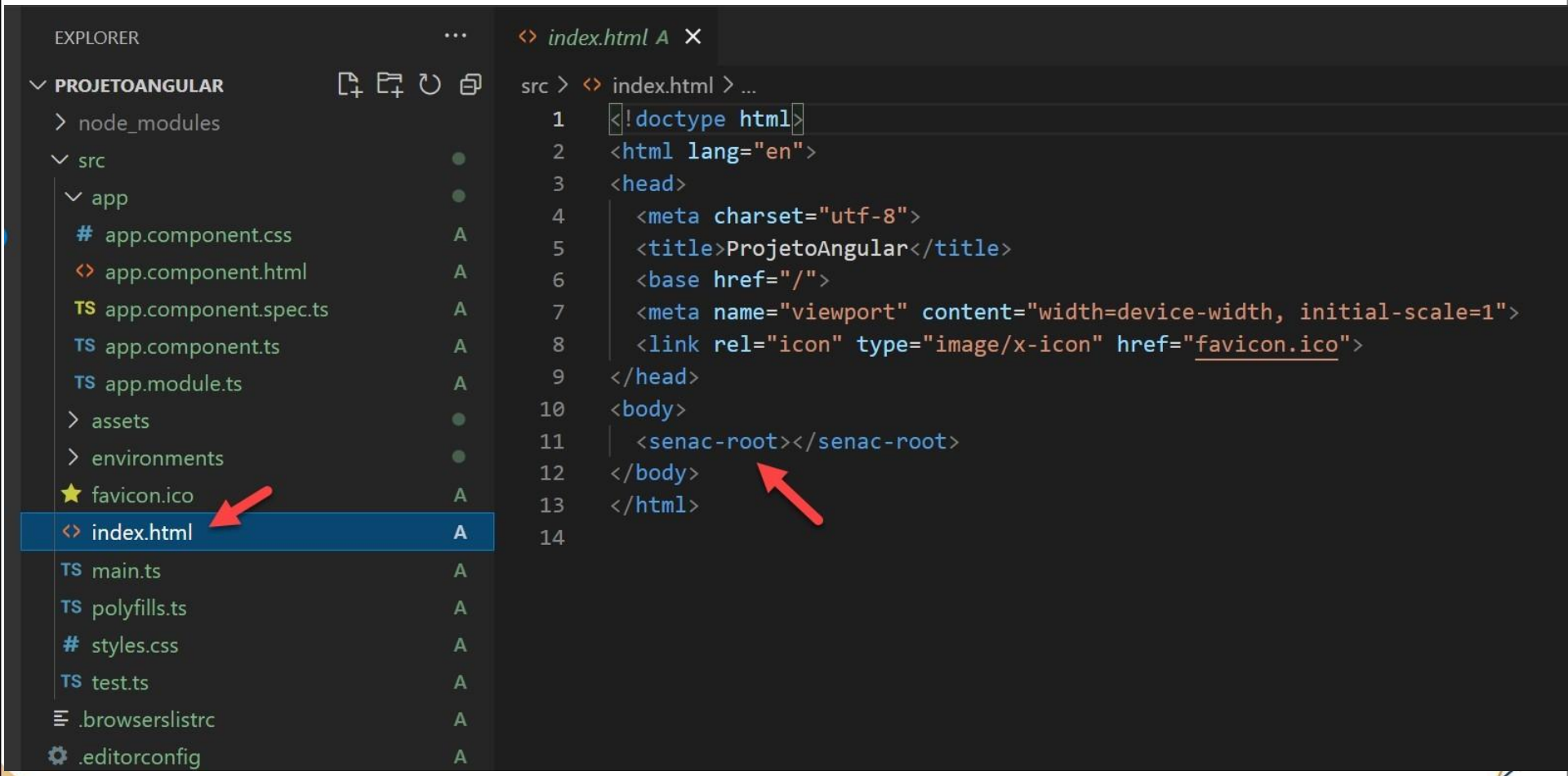
Import são as bibliotecas que vamos usar
@NgModule são metadados que serão inseridos na classe AppModule



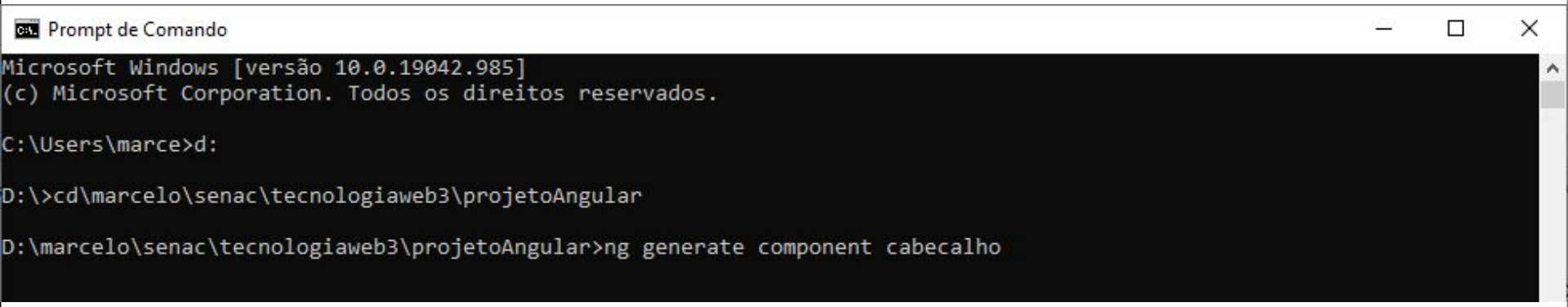
bootstrap: [AppComponent] indicado para informar qual o componente da classe


File Edit Selection View Go Run Terminal Help
app.component.ts - projetoAngular - Visual Studio Code
EXPLORER
PROJETOANGULAR
node_modules
src
app
app.component.css
app.component.html
app.component.spec.ts
app.component.ts
app.module.ts
assets
environments
favicon.ico
index.html
main.ts
polyfills.ts
styles.css
test.ts
.browserslistrc
.editorconfig
.gitignore
angular.json
OUTLINE
TIMELINE
app.component.ts A
src > app > app.component.ts > ...
1 import { Component } from '@angular/core';
2
3 @Component({
4 selector: 'senac-root',
5 templateUrl: './app.component.html',
6 styleUrls: ['./app.component.css']
7 })
8 export class AppComponent {
9 title = 'projetoAngular';
10 }
11
master+
0 0
Ln 1, Col 1
Spaces: 2
UTF-8
LF
TypeScript
Go Live
4.2.4

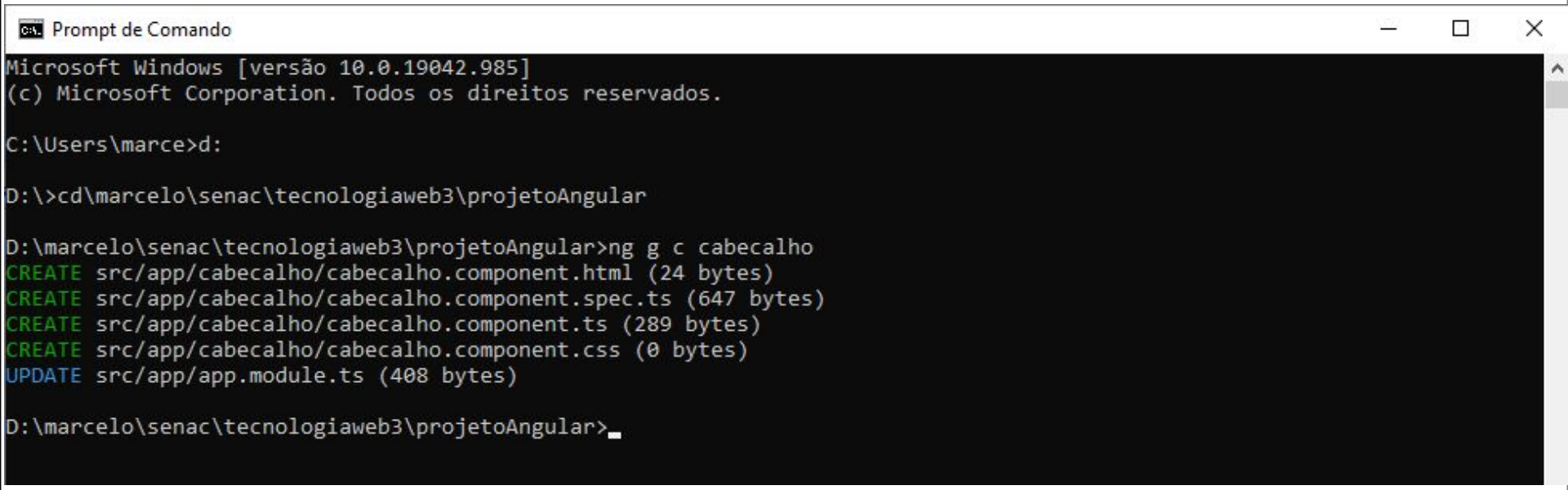
Perceba que o nome utilizado é exatamente o nome do selector que está definido

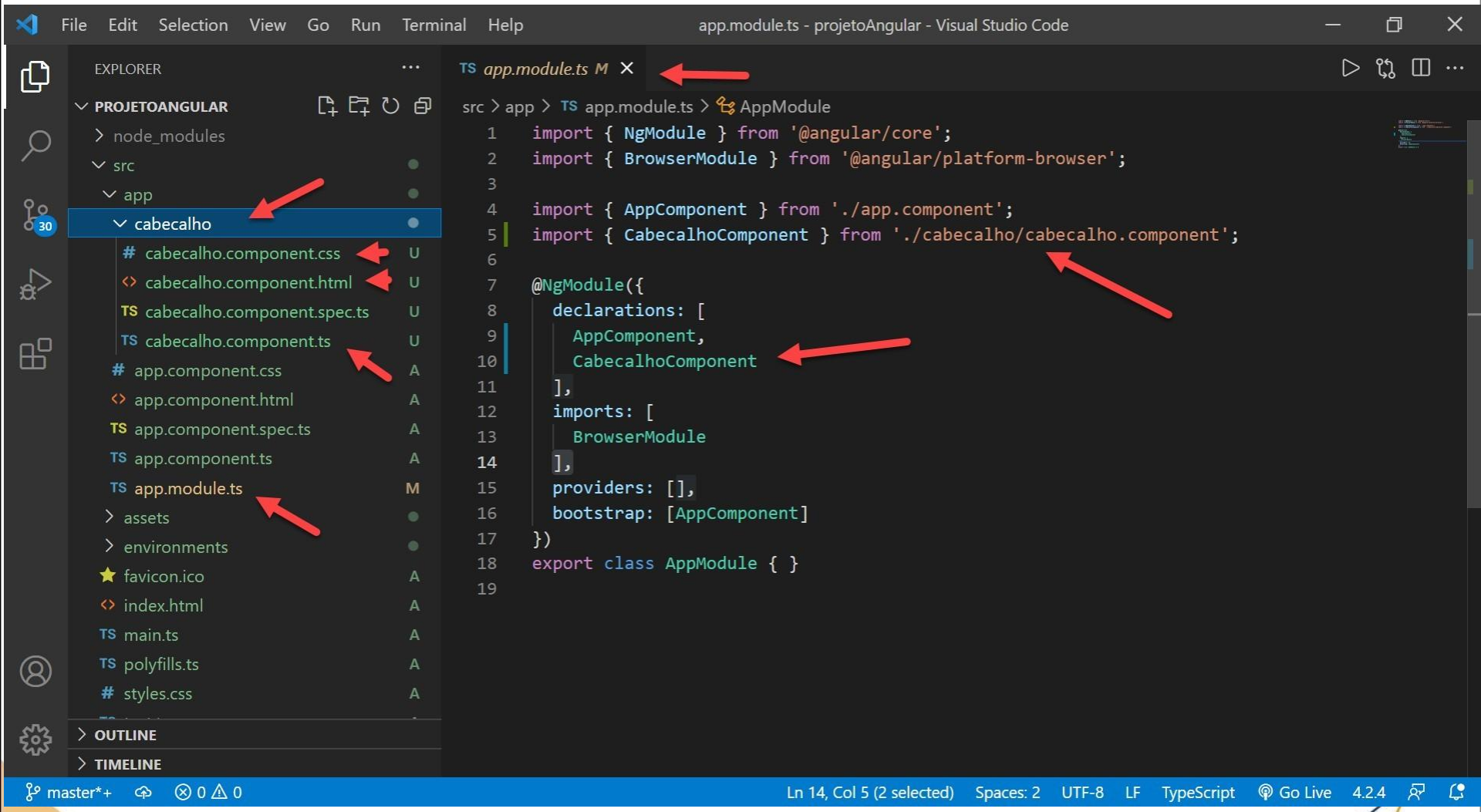


Criando nosso primeiro componente

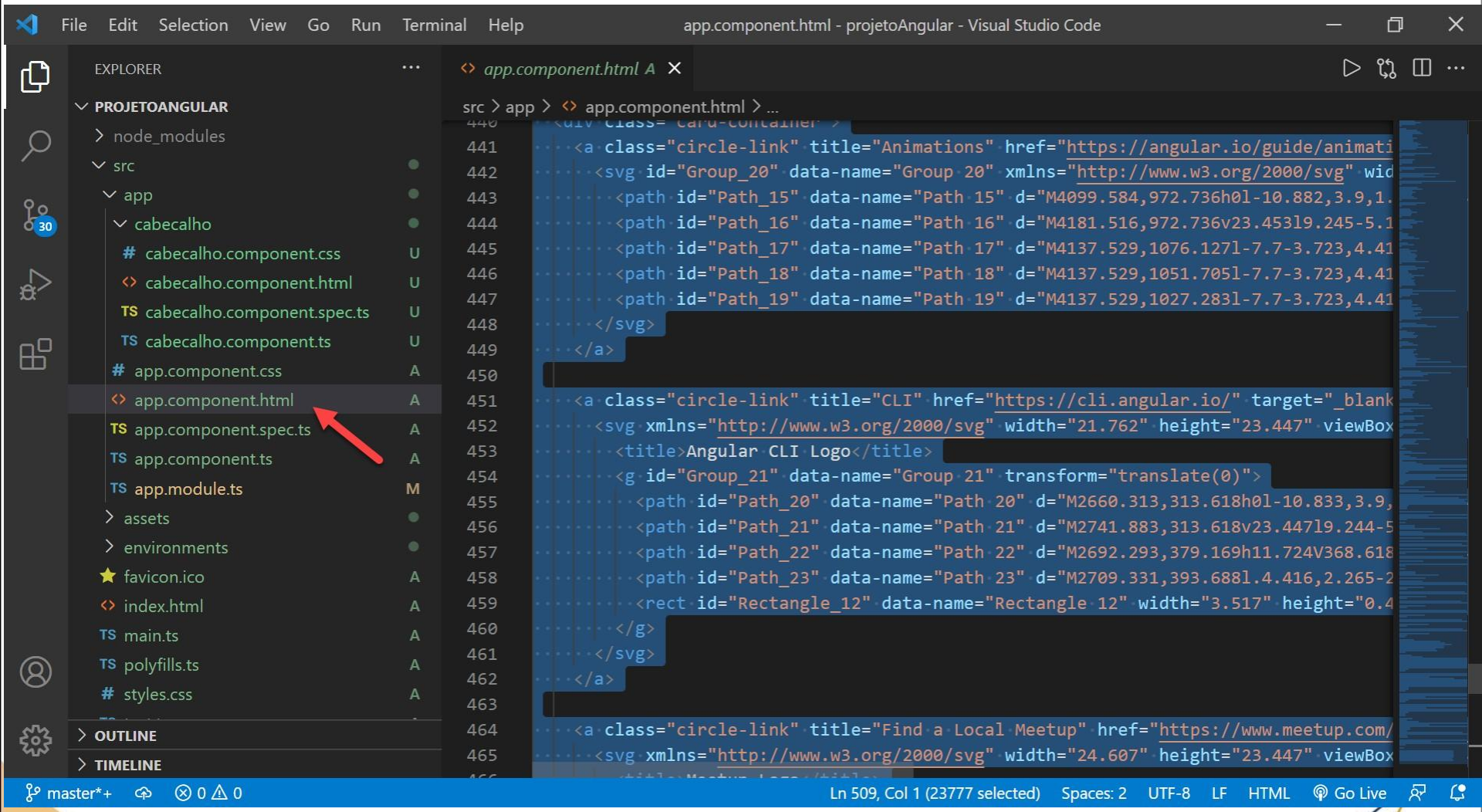


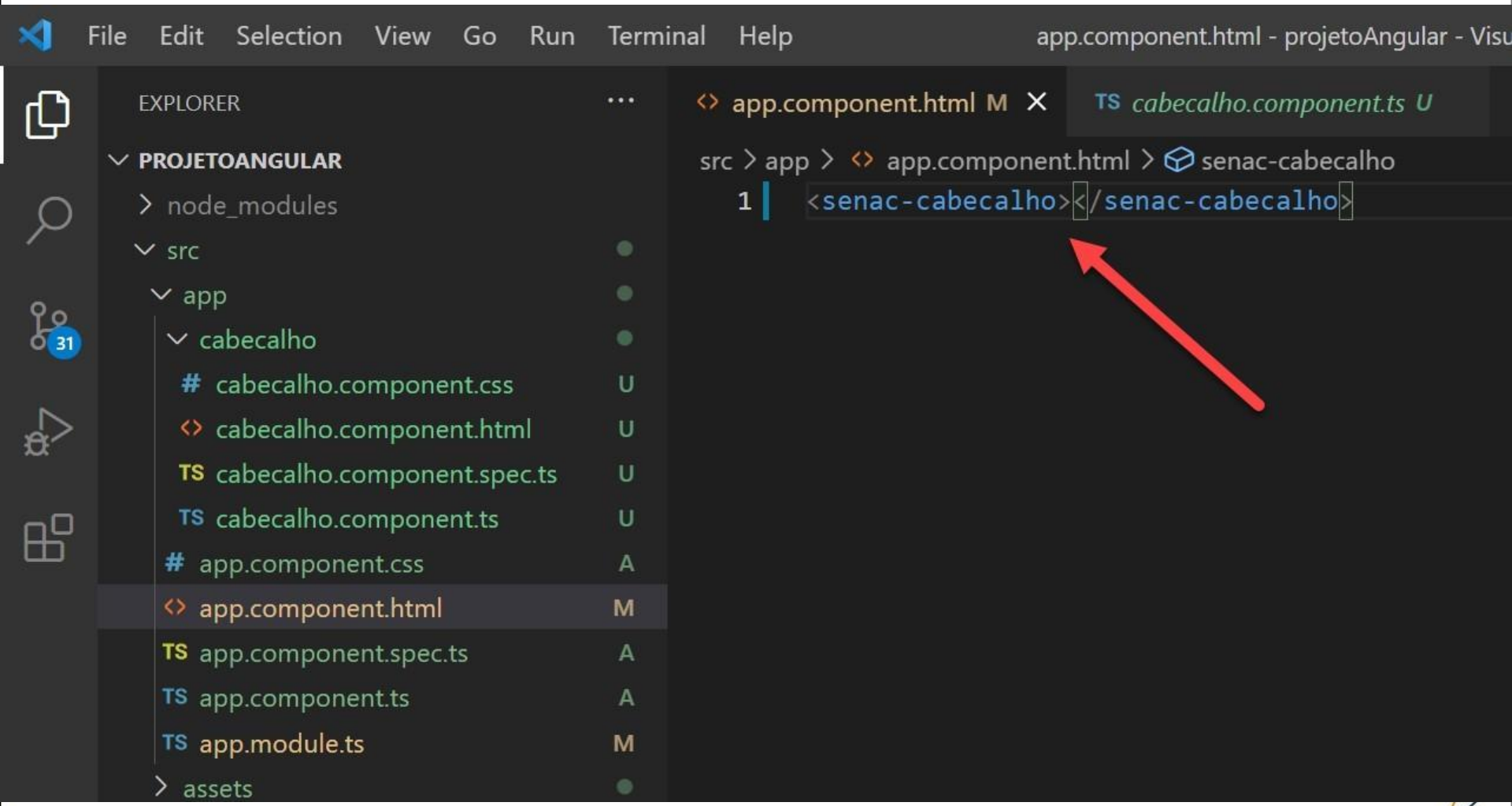
ou


Prompt de Comando
Microsoft Windows [versão 10.0.19042.985]
(c) Microsoft Corporation. Todos os direitos reservados.
C:\Users\marce>d:
D:\>cd\marcelo\senac\tecnologiaweb3\projetoAngular
D:\marcelo\senac\tecnologiaweb3\projetoAngular>ng g c cabecalho
CREATE src/app/cabecalho/cabecalho.component.html (24 bytes)
CREATE src/app/cabecalho/cabecalho.component.spec.ts (647 bytes)
CREATE src/app/cabecalho/cabecalho.component.ts (289 bytes)
CREATE src/app/cabecalho/cabecalho.component.css (0 bytes)
UPDATE src/app/app.module.ts (408 bytes)
D:\marcelo\senac\tecnologiaweb3\projetoAngular>

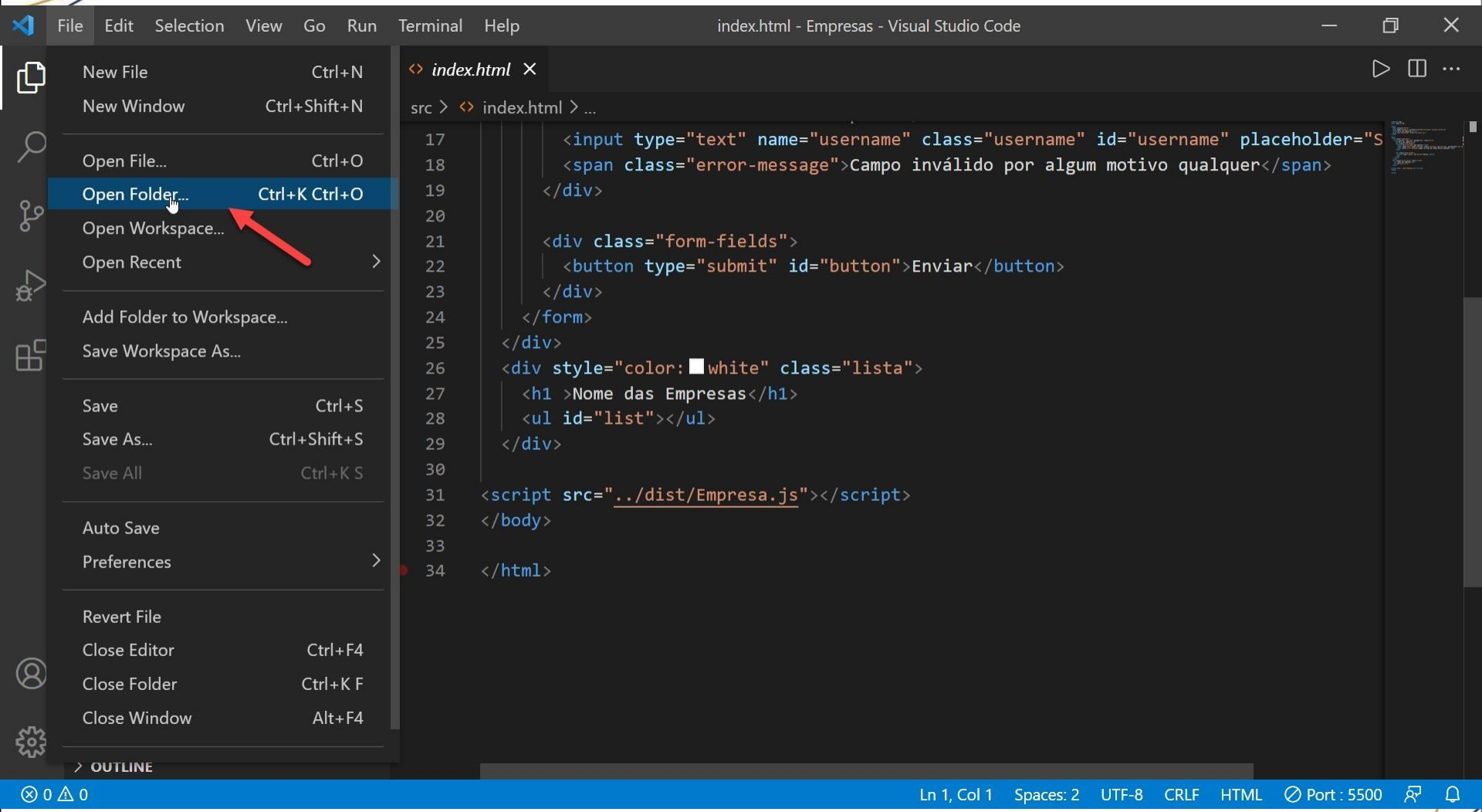

File Edit Selection View Go Run Terminal Help
app.module.ts - projetoAngular - Visual Studio Code
EXPLORER
PROJETOANGULAR
node_modules
src
app
cabecalho
cabecalho.component.css U
cabecalho.component.html U
cabecalho.component.spec.ts U
cabecalho.component.ts U
app.component.css A
app.component.html A
app.component.spec.ts A
app.component.ts A
app.module.ts M
assets
environments
favicon.ico A
index.html A
main.ts A
polyfills.ts A
styles.css A
OUTLINE
TIMELINE
app.module.ts M
src > app > app.module.ts > AppModule
1 import { NgModule } from '@angular/core';
2 import { BrowserModule } from '@angular/platform-browser';
3
4 import { AppComponent } from './app.component';
5 import { CabecalhoComponent } from './cabecalho/cabecalho.component';
6
7 @NgModule({
8 declarations: [
9 AppComponent,
10 CabecalhoComponent
11],
12 imports: [
13 BrowserModule
14],
15 providers: [],
16 bootstrap: [AppComponent]
17 })
18 export class AppModule { }
19
master*+ 0 0 Ln 14, Col 5 (2 selected) Spaces: 2 UTF-8 LF TypeScript Go Live 4.2.4

Excluir todo o conteúdo do arquivo




File Edit Selection View Go Run Terminal Help
app.component.html - projetoAngular - Visu
EXPLORER
app.component.html M
cabecalho.component.ts U
PROJETOANGULAR
node_modules
src
app
cabecalho
cabecalho.component.css U
cabecalho.component.html U
cabecalho.component.spec.ts U
cabecalho.component.ts U
app.component.css A
app.component.html M
app.component.spec.ts A
app.component.ts A
app.module.ts M
assets
src > app > app.component.html > senac-cabecalho
1 <senac-cabecalho></senac-cabecalho>

Trabalhando com Layout

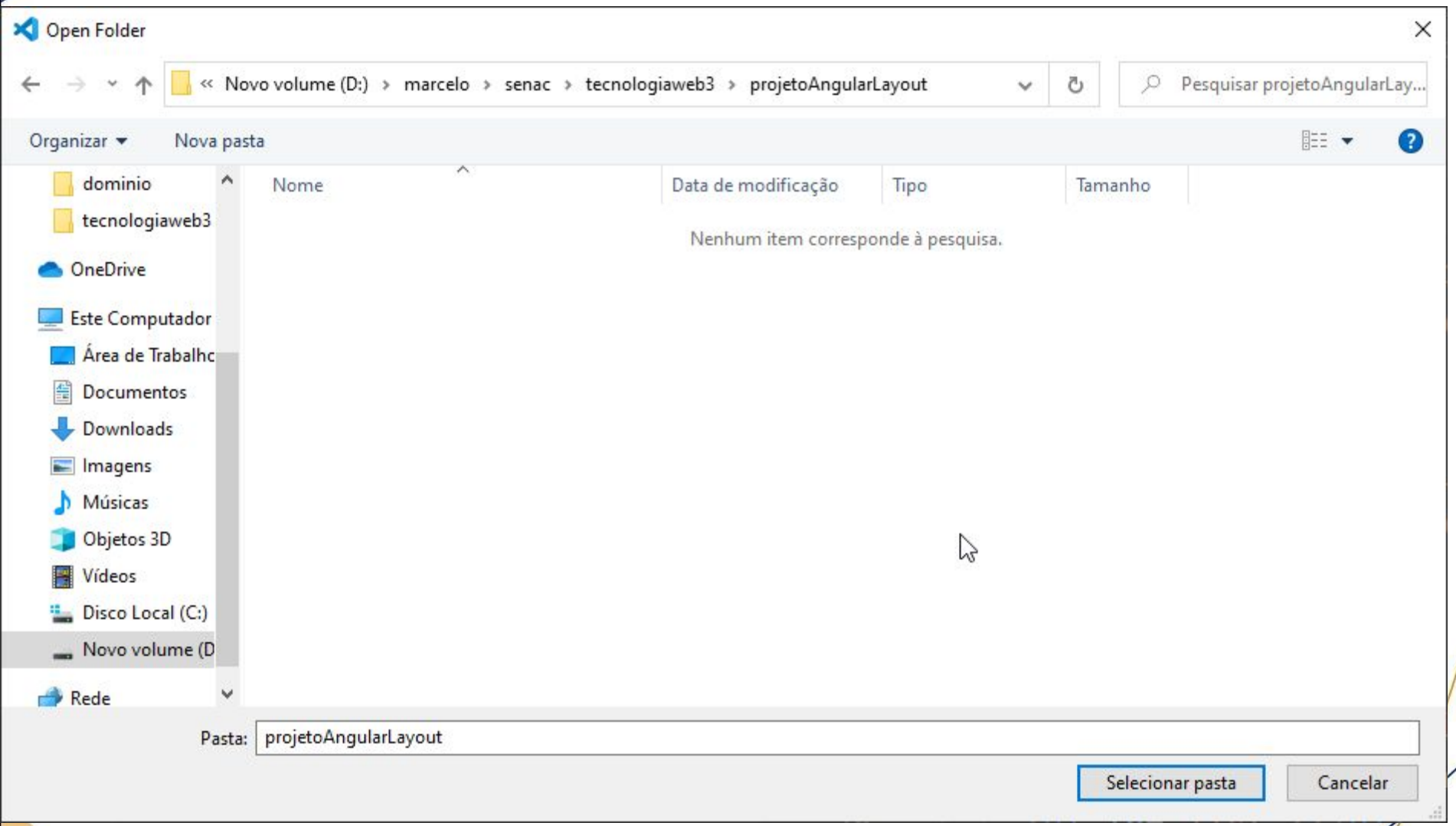

File Edit Selection View Go Run Terminal Help
index.html - Empresas - Visual Studio Code
New File Ctrl+N
New Window Ctrl+Shift+N
Open File... Ctrl+O
Open Folder... Ctrl+K Ctrl+O
Open Workspace...
Open Recent
Add Folder to Workspace...
Save Workspace As...
Save Ctrl+S
Save As... Ctrl+Shift+S
Save All Ctrl+K S
Auto Save
Preferences
Revert File
Close Editor Ctrl+F4
Close Folder Ctrl+K F
Close Window Alt+F4
index.html
src > index.html > ...
<input type="text" name="username" class="username" id="username" placeholder="S
Campo inválido por algum motivo qualquer

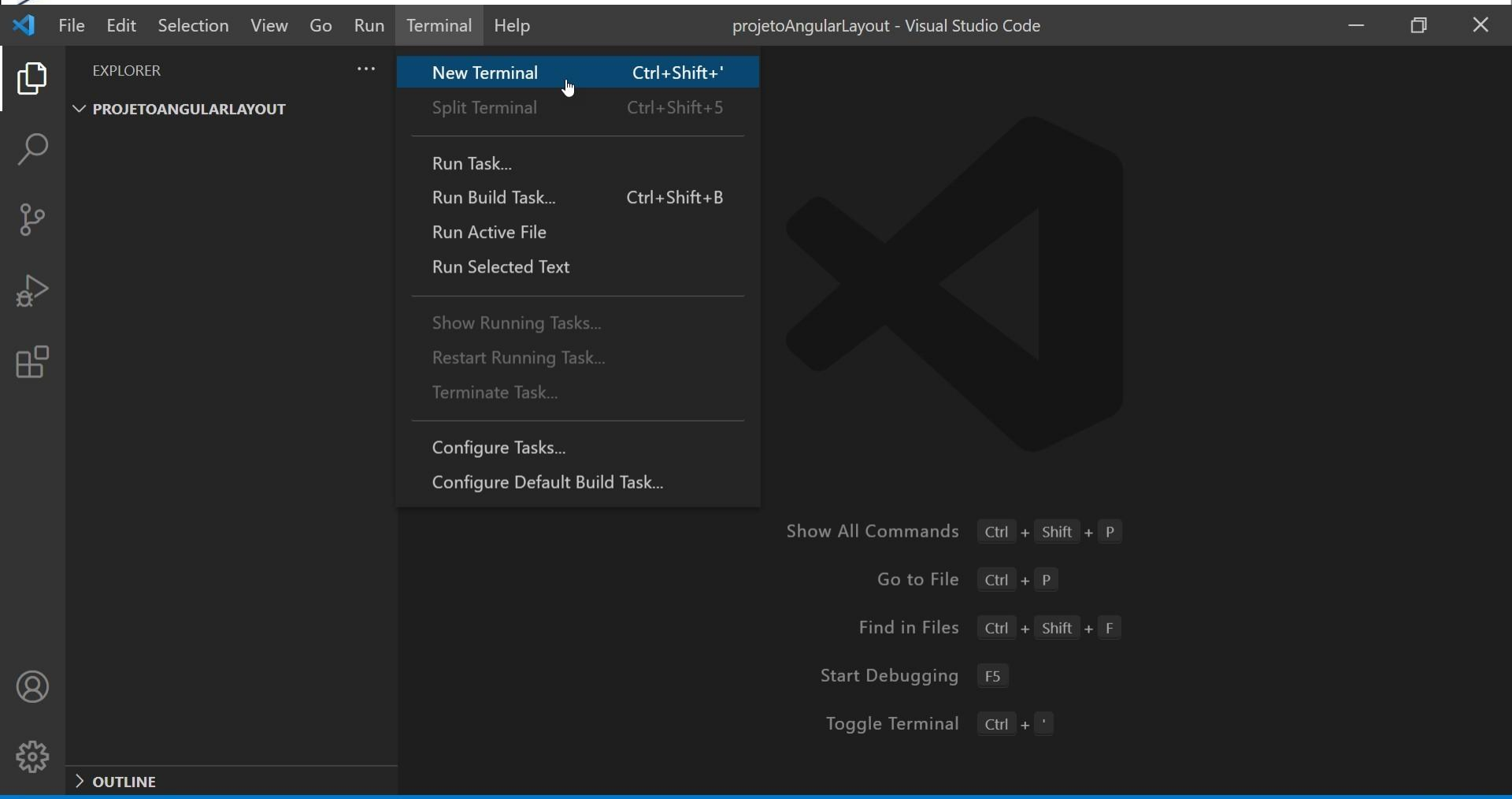
<button type="submit" id="button">Enviar</button>

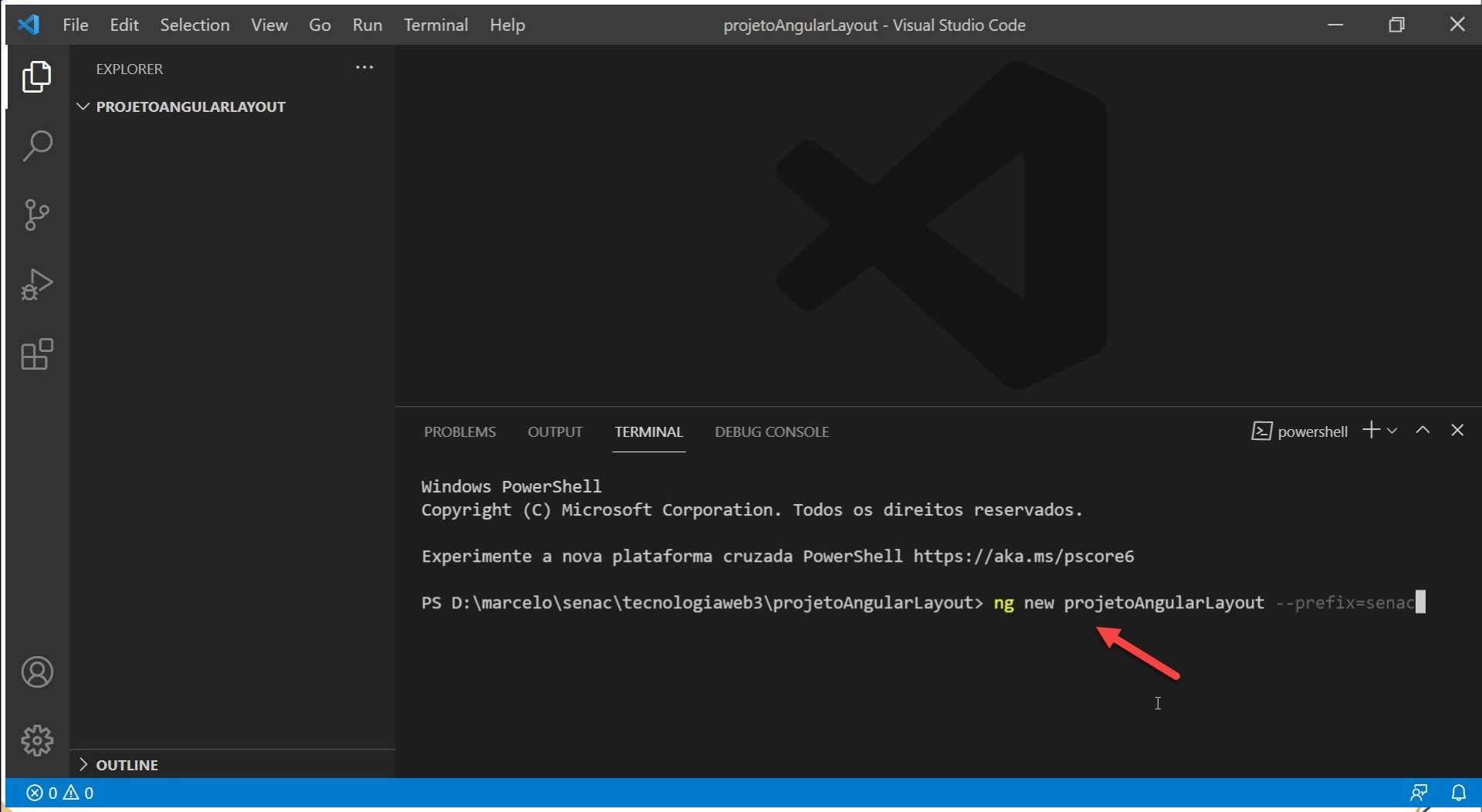
</form>

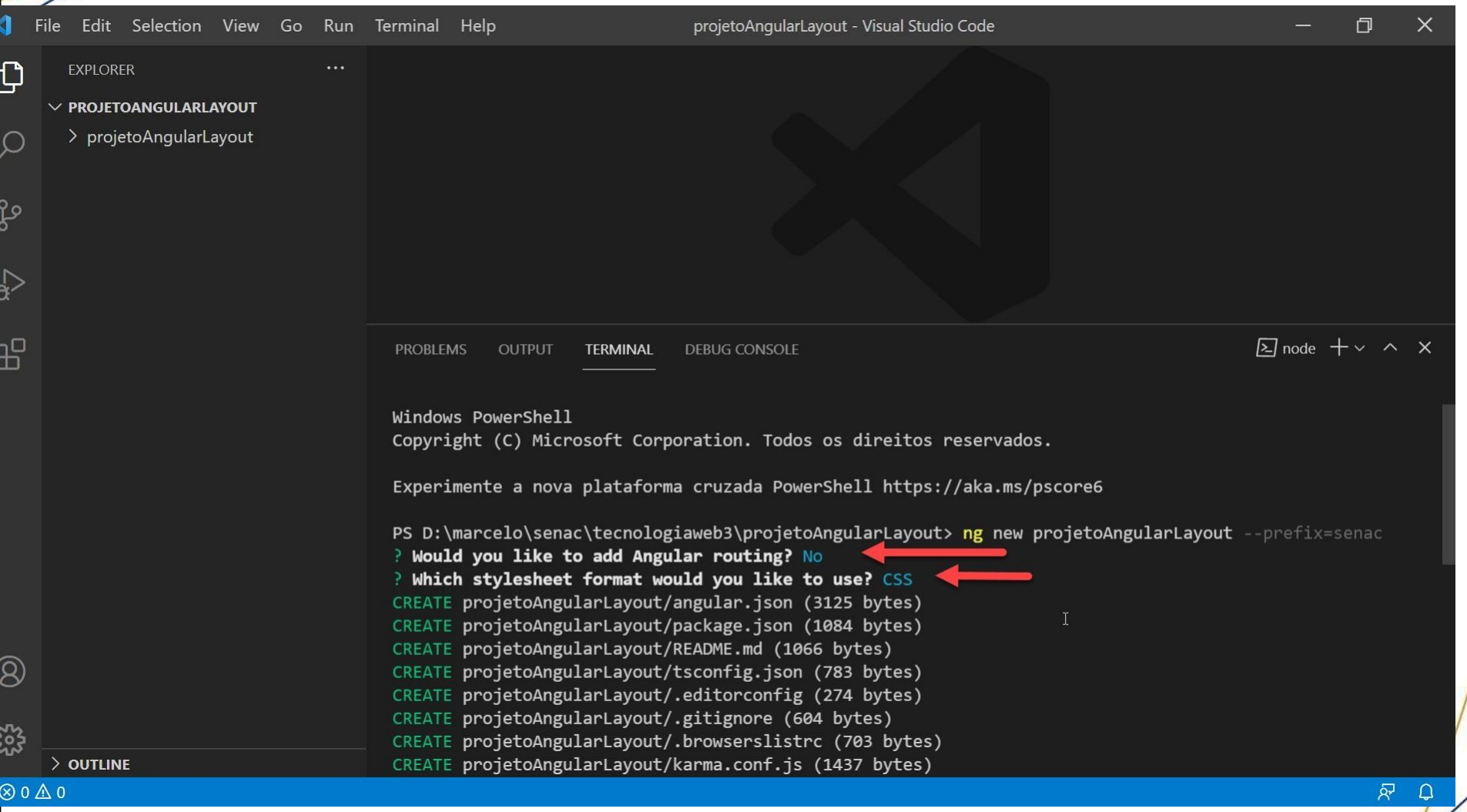
<h1 >Nome das Empresas</h1>
<ul id="list">

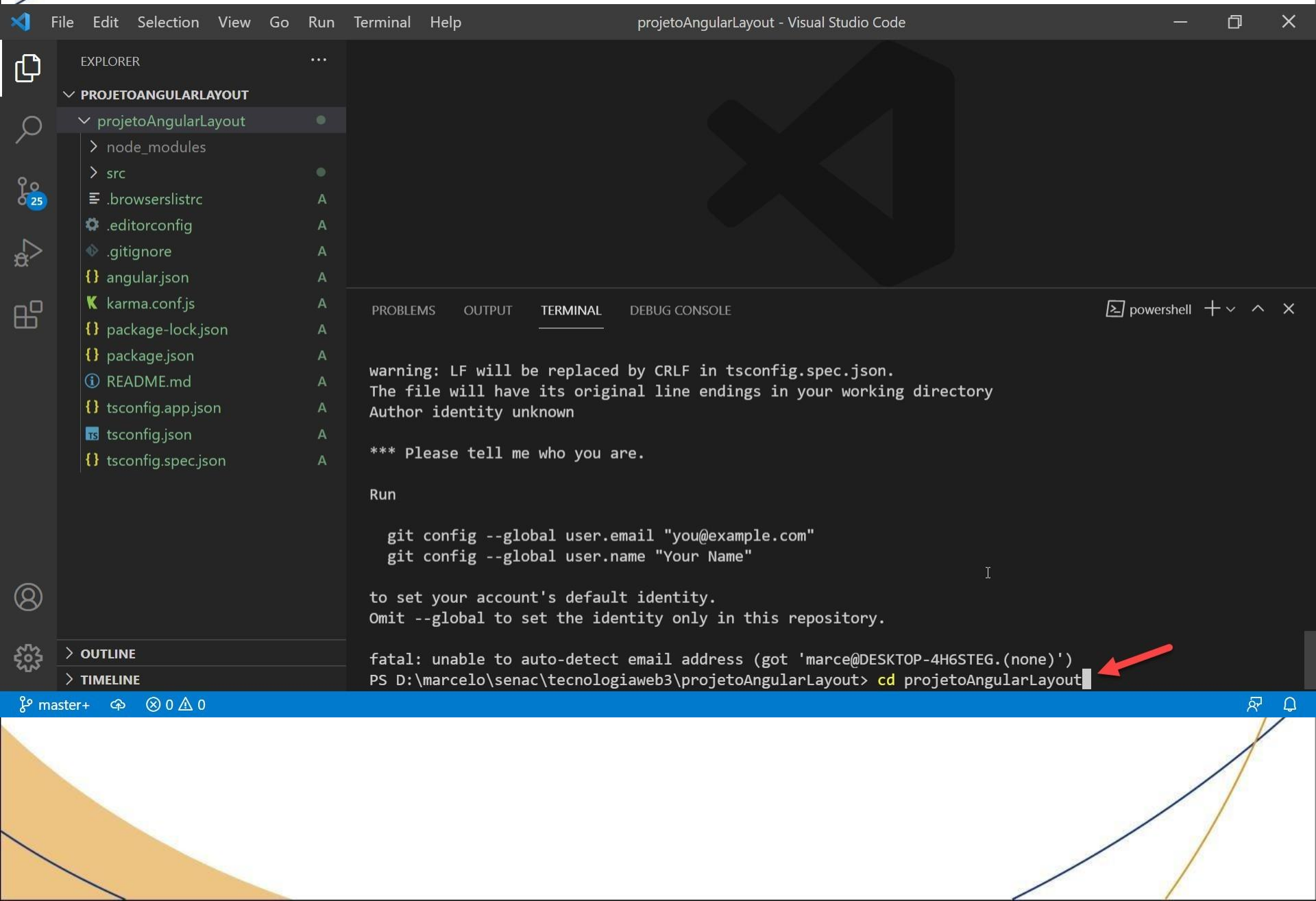
<script src="../dist/Empresa.js"></script>
</body>
</html>
OUTLINE
Ln 1, Col 1 Spaces: 2 UTF-8 CRLF HTML Port : 5500

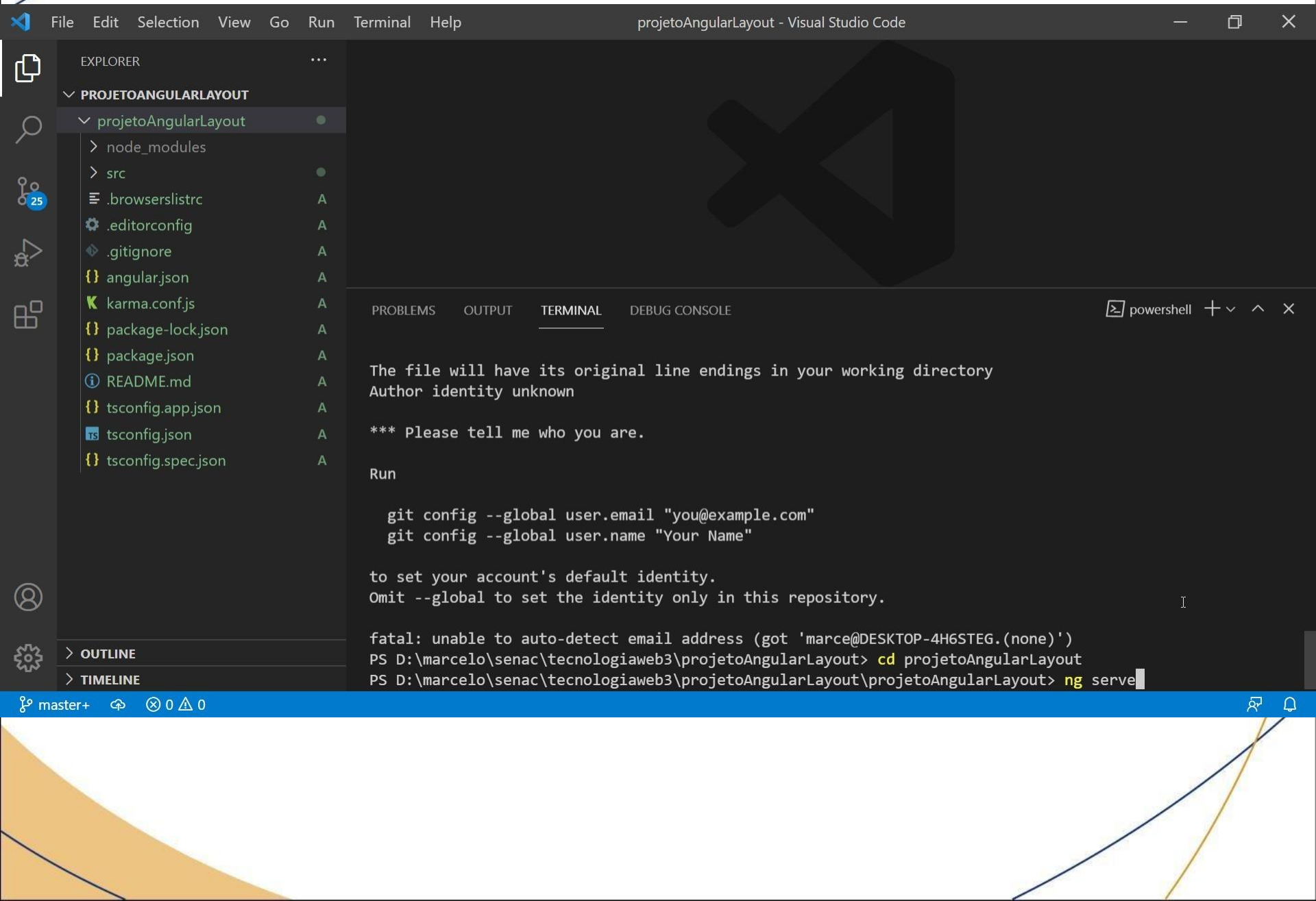

Open Folder
Novo volume (D:) › marcelo › senac › tecnologiaweb3 › projetoAngularLayout
Pesquisar projetoAngularLay...
Organizar
Nova pasta
dominio
tecnologiaweb3
OneDrive
Este Computador
Área de Trabalhc
Documentos
Downloads
Imagens
Músicas
Objetos 3D
Vídeos
Disco Local (C:)
Novo volume (D
Rede
Nome
Data de modificação
Tipo
Tamanho
Nenhum item corresponde à pesquisa.
Pasta: projetoAngularLayout
Selecionar pasta
Cancelar


File
Edit
Selection
View
Go
Run
Terminal
Help
projetoAngularLayout - Visual Studio Code
EXPLORER
PROJETOANGULARLAYOUT
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...
Show All Commands Ctrl + Shift + P
Go to File Ctrl + P
Find in Files Ctrl + Shift + F
Start Debugging F5
Toggle Terminal Ctrl + '
OUTLINE
0 0

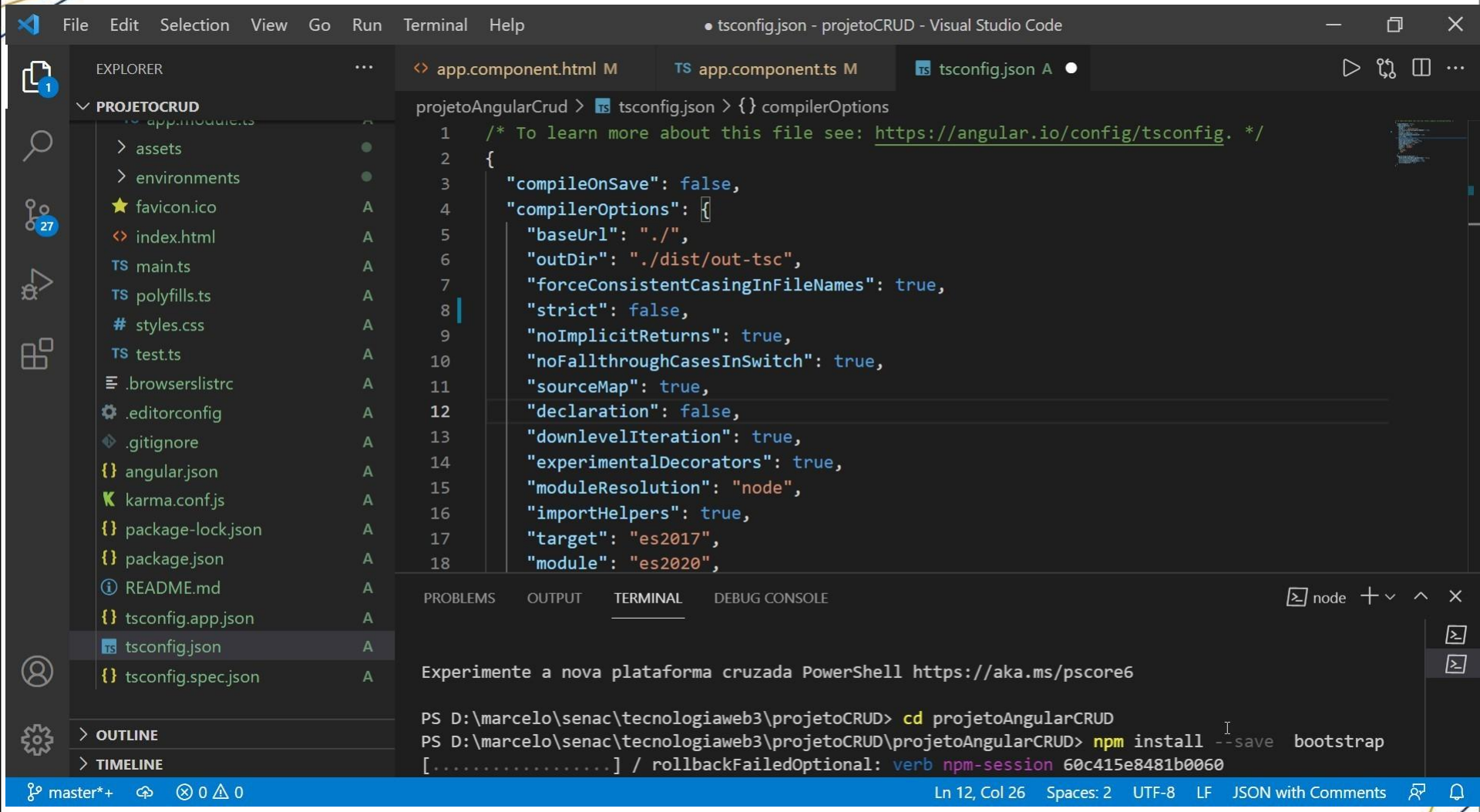

File Edit Selection View Go Run Terminal Help
projetoAngularLayout - Visual Studio Code
EXPLORER
PROJETOANGULARLAYOUT
OUTLINE
PROBLEMS
OUTPUT
TERMINAL
DEBUG CONSOLE
powershell
Windows PowerShell
Copyright (C) Microsoft Corporation. Todos os direitos reservados.
Experimente a nova plataforma cruzada PowerShell https://aka.ms/pscore6
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayout> ng new projetoAngularLayout --prefix=senac
0 0

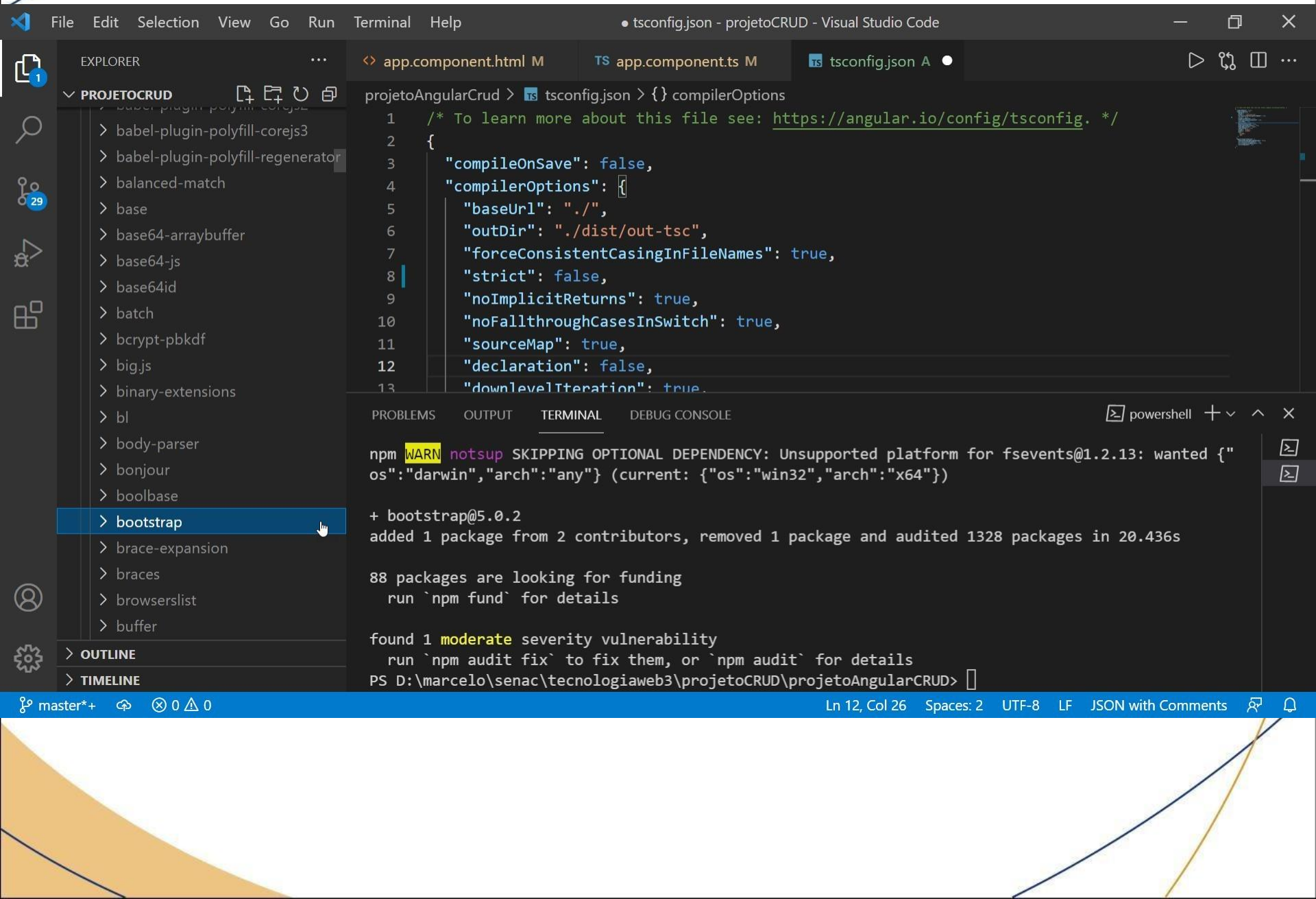

File Edit Selection View Go Run Terminal Help
projetoAngularLayout - Visual Studio Code
EXPLORER
PROJETOANGULARLAYOUT
projetoAngularLayout
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
node
Windows PowerShell
Copyright (C) Microsoft Corporation. Todos os direitos reservados.
Experimente a nova plataforma cruzada PowerShell https://aka.ms/pscore6
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayout> ng new projetoAngularLayout --prefix=senac
? Would you like to add Angular routing? No
? Which stylesheet format would you like to use? CSS
CREATE projetoAngularLayout/angular.json (3125 bytes)
CREATE projetoAngularLayout/package.json (1084 bytes)
CREATE projetoAngularLayout/README.md (1066 bytes)
CREATE projetoAngularLayout/tsconfig.json (783 bytes)
CREATE projetoAngularLayout/.editorconfig (274 bytes)
CREATE projetoAngularLayout/.gitignore (604 bytes)
CREATE projetoAngularLayout/.browserslistrc (703 bytes)
CREATE projetoAngularLayout/karma.conf.js (1437 bytes)
OUTLINE
0 0

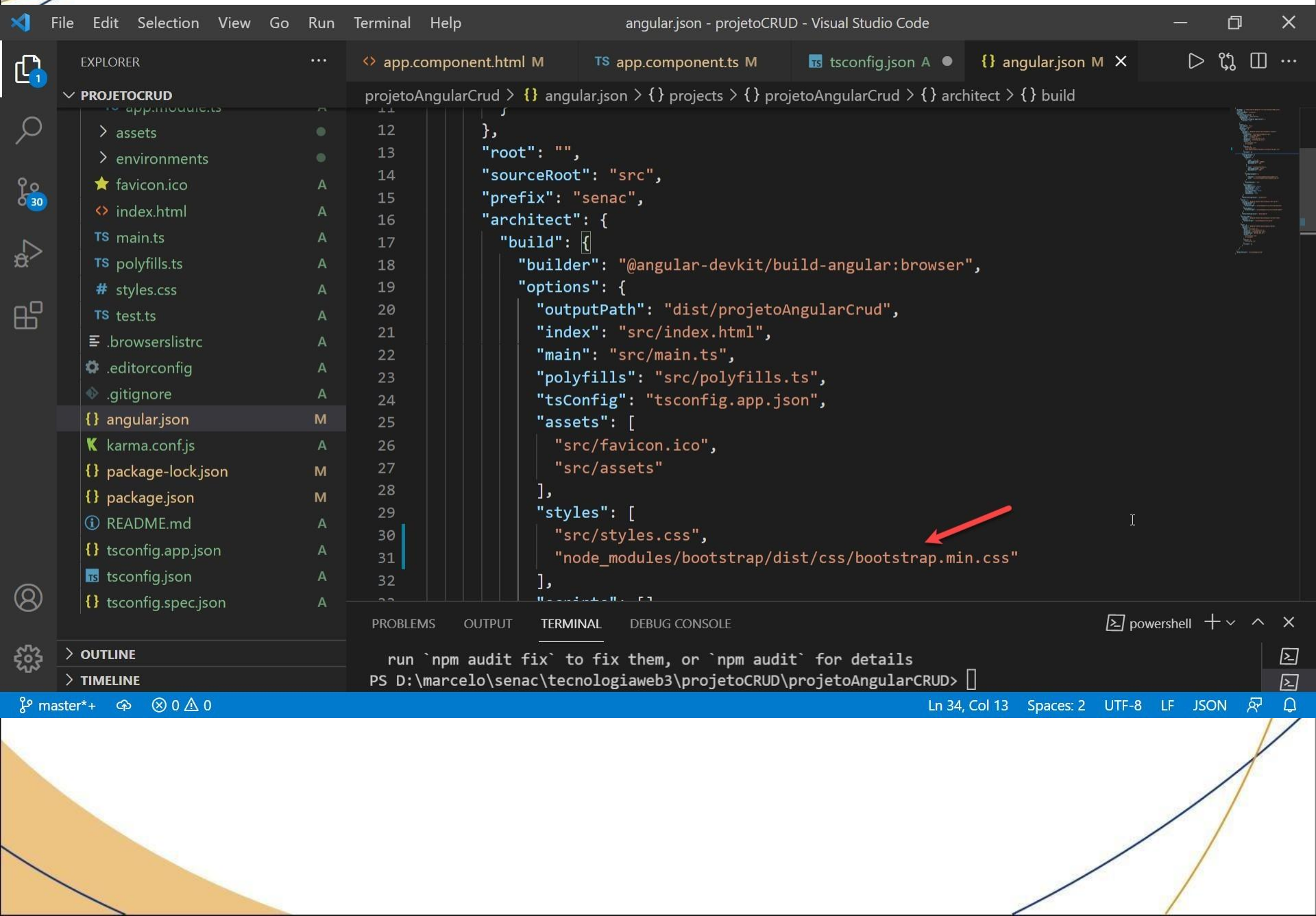

File Edit Selection View Go Run Terminal Help
projetoAngularLayout - Visual Studio Code
EXPLORER
PROJETOANGULARLAYOUT
projetoAngularLayout
node_modules
src
.browserslistrc A
.editorconfig A
.gitignore A
angular.json A
karma.conf.js A
package-lock.json A
package.json A
README.md A
tsconfig.app.json A
tsconfig.json A
tsconfig.spec.json A
OUTLINE
TIMELINE
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
powershell
warning: LF will be replaced by CRLF in tsconfig.spec.json.
The file will have its original line endings in your working directory
Author identity unknown
*** Please tell me who you are.
Run
git config --global user.email "you@example.com"
git config --global user.name "Your Name"
to set your account's default identity.
Omit --global to set the identity only in this repository.
fatal: unable to auto-detect email address (got 'marce@DESKTOP-4H6STEG.(none)')
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayout> cd projetoAngularLayout
master+
0 0


File Edit Selection View Go Run Terminal Help
projetoAngularLayout - Visual Studio Code
EXPLORER
PROJETOANGULARLAYOUT
projetoAngularLayout
node_modules
src
.browserslistrc A
.editorconfig A
.gitignore A
angular.json A
karma.conf.js A
package-lock.json A
package.json A
README.md A
tsconfig.app.json A
tsconfig.json A
tsconfig.spec.json A
OUTLINE
TIMELINE
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
powershell
The file will have its original line endings in your working directory
Author identity unknown
*** Please tell me who you are.
Run
git config --global user.email "you@example.com"
git config --global user.name "Your Name"
to set your account's default identity.
Omit --global to set the identity only in this repository.
fatal: unable to auto-detect email address (got 'marce@DESKTOP-4H6STEG.(none)')
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayout> cd projetoAngularLayout
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayout\projetoAngularLayout> ng serve
master+
0 0

Instalar o bootstrap para trabalhar com o Angular


File Edit Selection View Go Run Terminal Help
• tsconfig.json - projetoCRUD - Visual Studio Code
EXPLORER
PROJETOCRUD
assets
environments
favicon.ico A
index.html A
main.ts A
polyfills.ts A
styles.css A
test.ts A
.browserslistrc A
.editorconfig A
.gitignore A
angular.json A
karma.conf.js A
package-lock.json A
package.json A
README.md A
tsconfig.app.json A
tsconfig.json A
tsconfig.spec.json A
OUTLINE
TIMELINE
app.component.html M
app.component.ts M
tsconfig.json A
projetoAngularCrud > tsconfig.json > { } compilerOptions
1 /* To learn more about this file see: https://angular.io/config/tsconfig. */
2 {
3 "compileOnSave": false,
4 "compilerOptions": {
5 "baseUrl": "./",
6 "outDir": "./dist/out-tsc",
7 "forceConsistentCasingInFileNames": true,
8 "strict": false,
9 "noImplicitReturns": true,
10 "noFallthroughCasesInSwitch": true,
11 "sourceMap": true,
12 "declaration": false,
13 "downlevelIteration": true,
14 "experimentalDecorators": true,
15 "moduleResolution": "node",
16 "importHelpers": true,
17 "target": "es2017",
18 "module": "es2020",
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
node
Experimente a nova plataforma cruzada PowerShell https://aka.ms/pscore6
PS D:\marcelo\senac\tecnologiaweb3\projetoCRUD> cd projetoAngularCRUD
PS D:\marcelo\senac\tecnologiaweb3\projetoCRUD\projetoAngularCRUD> npm install --save bootstrap
[..................] / rollbackFailedOptional: verb npm-session 60c415e8481b0060
master*+
0 0
Ln 12, Col 26
Spaces: 2
UTF-8
LF
JSON with Comments


File Edit Selection View Go Run Terminal Help
• tsconfig.json - projetoCRUD - Visual Studio Code
EXPLORER
PROJETOCRUD
babel-plugin-polyfill-corejs3
babel-plugin-polyfill-regenerator
balanced-match
base
base64-arraybuffer
base64-js
base64id
batch
bcrypt-pbkdf
big.js
binary-extensions
bl
body-parser
bonjour
boolbase
bootstrap
brace-expansion
braces
browserslist
buffer
OUTLINE
TIMELINE
app.component.html M
app.component.ts M
tsconfig.json A
projetoAngularCrud > tsconfig.json > { } compilerOptions
1 /* To learn more about this file see: https://angular.io/config/tsconfig. */
2 {
3 "compileOnSave": false,
4 "compilerOptions": {
5 "baseUrl": "./",
6 "outDir": "./dist/out-tsc",
7 "forceConsistentCasingInFileNames": true,
8 "strict": false,
9 "noImplicitReturns": true,
10 "noFallthroughCasesInSwitch": true,
11 "sourceMap": true,
12 "declaration": false,
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
powershell
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"win32","arch":"x64"})
+ bootstrap@5.0.2
added 1 package from 2 contributors, removed 1 package and audited 1328 packages in 20.436s
88 packages are looking for funding
run `npm fund` for details
found 1 moderate severity vulnerability
run `npm audit fix` to fix them, or `npm audit` for details
PS D:\marcelo\senac\tecnologiaweb3\projetoCRUD\projetoAngularCRUD>
master*+
0 0
Ln 12, Col 26 Spaces: 2 UTF-8 LF JSON with Comments


File Edit Selection View Go Run Terminal Help
angular.json - projetoCRUD - Visual Studio Code
EXPLORER
PROJETOCRUD
assets
environments
favicon.ico A
index.html A
main.ts A
polyfills.ts A
styles.css A
test.ts A
.browserslistrc A
.editorconfig A
.gitignore A
angular.json M
karma.conf.js A
package-lock.json M
package.json M
README.md A
tsconfig.app.json A
tsconfig.json A
tsconfig.spec.json A
OUTLINE
TIMELINE
app.component.html M
app.component.ts M
tsconfig.json A
angular.json M
projetoAngularCrud > {} angular.json > {} projects > {} projetoAngularCrud > {} architect > {} build
"root": "",
"sourceRoot": "src",
"prefix": "senac",
"architect": {
"build": {
"builder": "@angular-devkit/build-angular:browser",
"options": {
"outputPath": "dist/projetoAngularCrud",
"index": "src/index.html",
"main": "src/main.ts",
"polyfills": "src/polyfills.ts",
"tsConfig": "tsconfig.app.json",
"assets": [
"src/favicon.ico",
"src/assets"
],
"styles": [
"src/styles.css",
"node_modules/bootstrap/dist/css/bootstrap.min.css"
],
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
powershell
run `npm audit fix` to fix them, or `npm audit` for details
PS D:\marcelo\senac\tecnologiaweb3\projetoCRUD\projetoAngularCRUD>
master*+
0 0
Ln 34, Col 13 Spaces: 2 UTF-8 LF JSON

startbootstrap.com

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Bootstrap themes, templates, and UI tools to help you start your next project!

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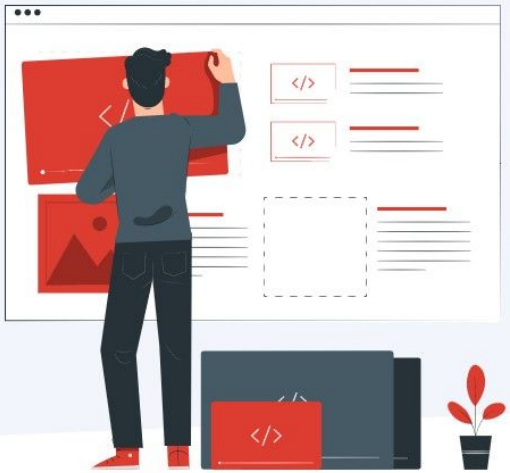

Category

All ›

Technologies

HTML Angular Vue

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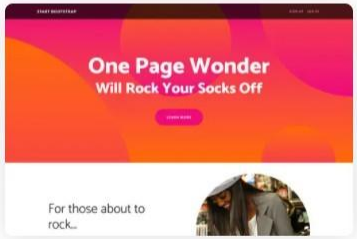
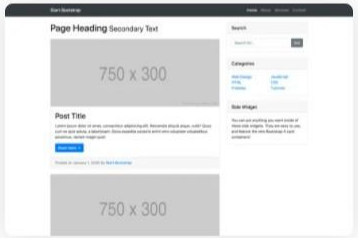
Scrolling Nav
A scrolling navigation template
Free
264,026

SB Admin Angular
An Angular version of SB Admin
Free
30,376

Bare
A Bootstrap HTML starter template
Free
242,465



One Page Wonder
A simple one page website template
Free
188,874



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A blog home page template
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138,787

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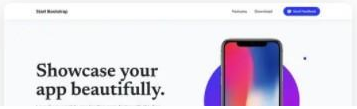
374,049



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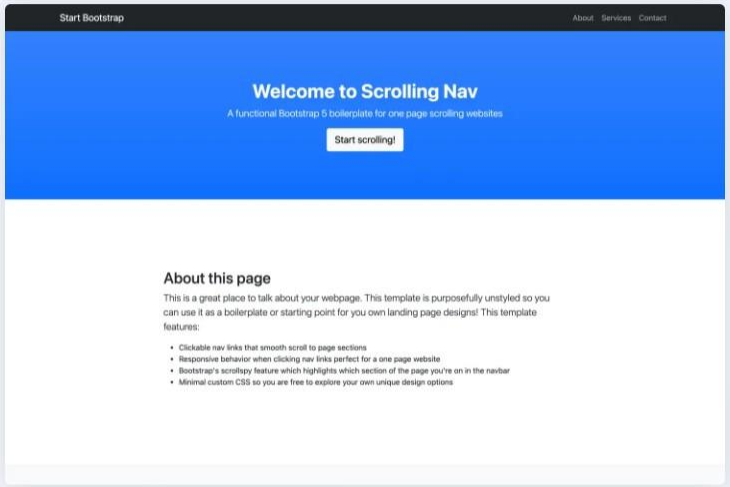

Live Preview View Source Code

Scrolling Nav

A basic, unstyled Bootstrap page layout for creating smooth scrolling, one page websites

Free Download

Upgrade to Pro

License	MIT License
Downloaded	264,026
Released	Feb 3, 2014
Last Update	10 days ago
Product Version	6.0.1
Bootstrap Version	5.0.1

Description

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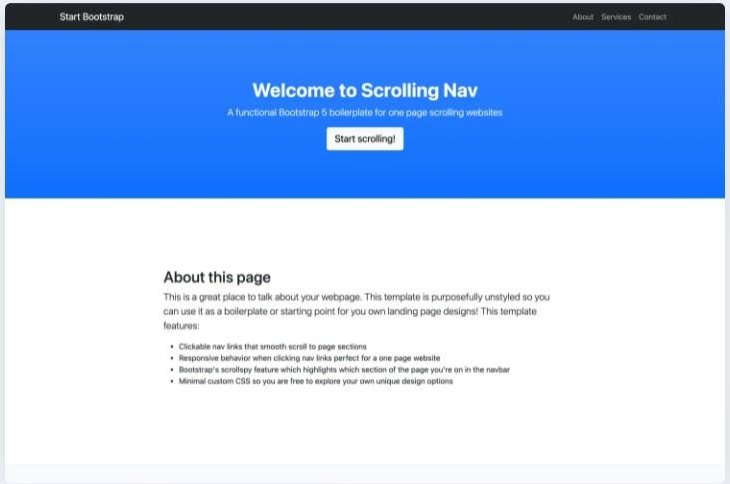

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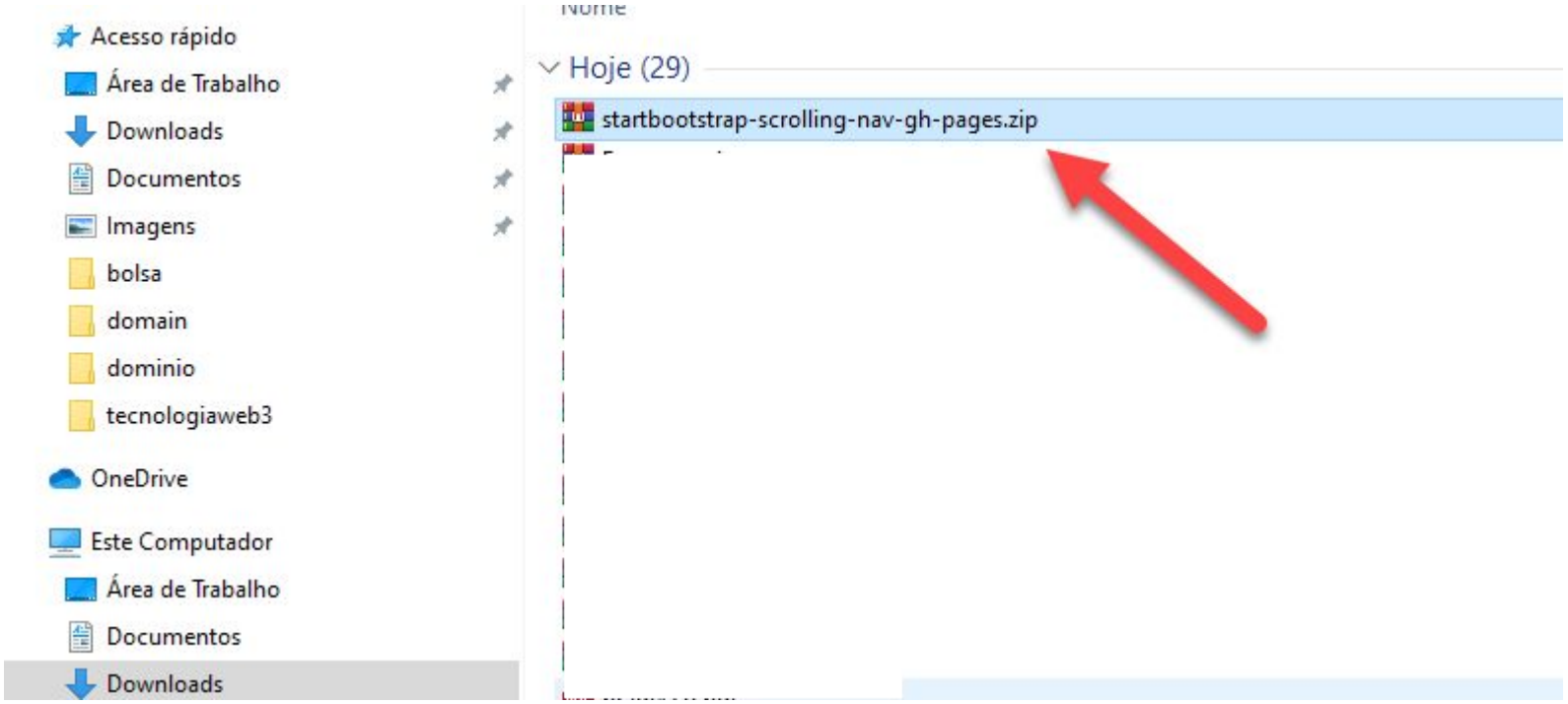
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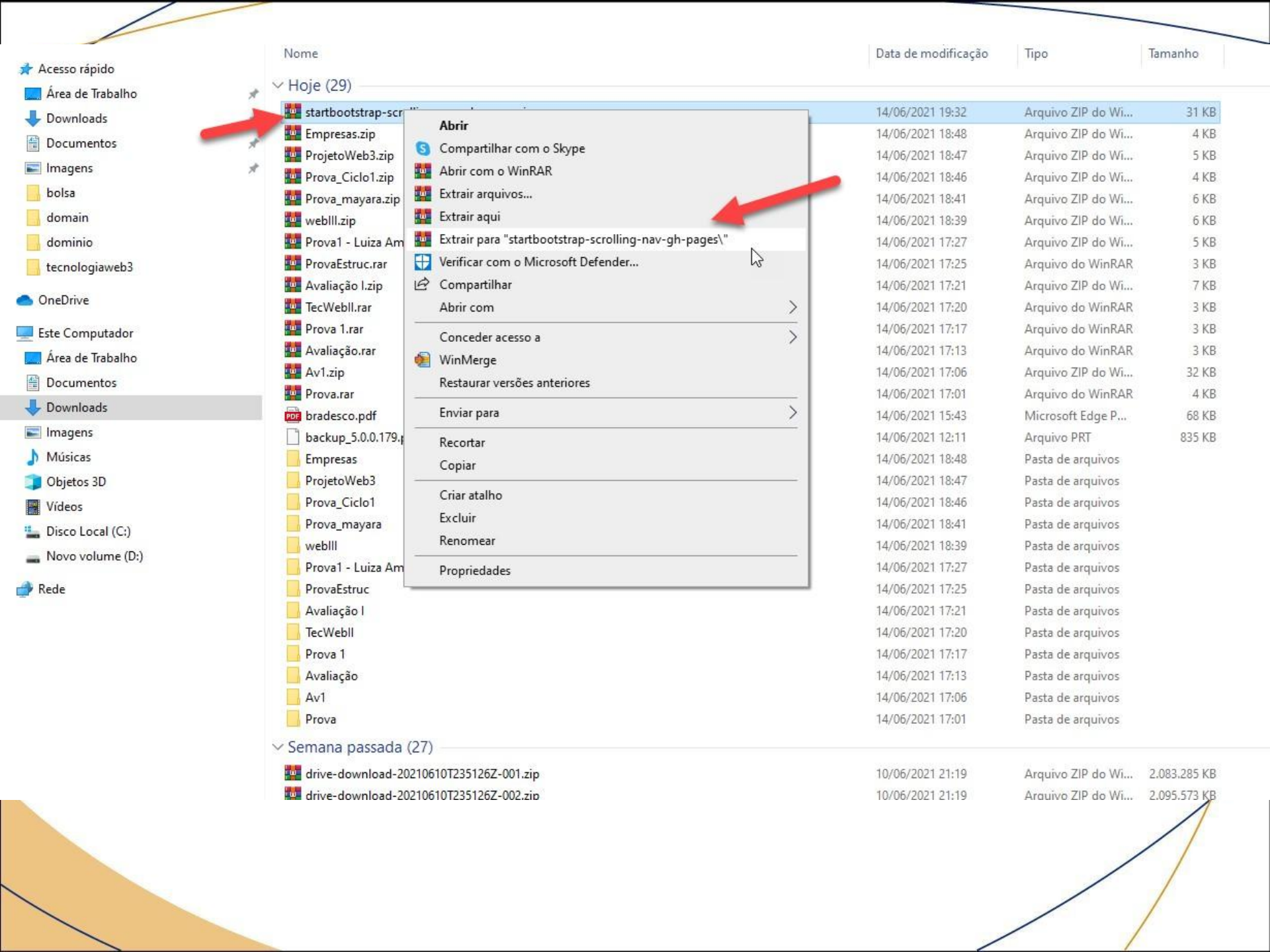
Hoje (29)
startbootstrap-scrolling-nav-gh-pages.zip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Novo volume (D:)
Rede
Nome
Data de modificação
Tipo
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Hoje (29)
startbootstrap-scr
14/06/2021 19:32
Arquivo ZIP do Wi...
31 KB
Empresas.zip
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Arquivo ZIP do Wi...
4 KB
ProjetoWeb3.zip
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Arquivo ZIP do Wi...
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Prova_Ciclo1.zip
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Arquivo ZIP do Wi...
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backup_5.0.0.179.
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Empresas
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Pasta de arquivos
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Pasta de arquivos
Prova_mayara
14/06/2021 18:41
Pasta de arquivos
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Prova1 - Luiza Am
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Prova
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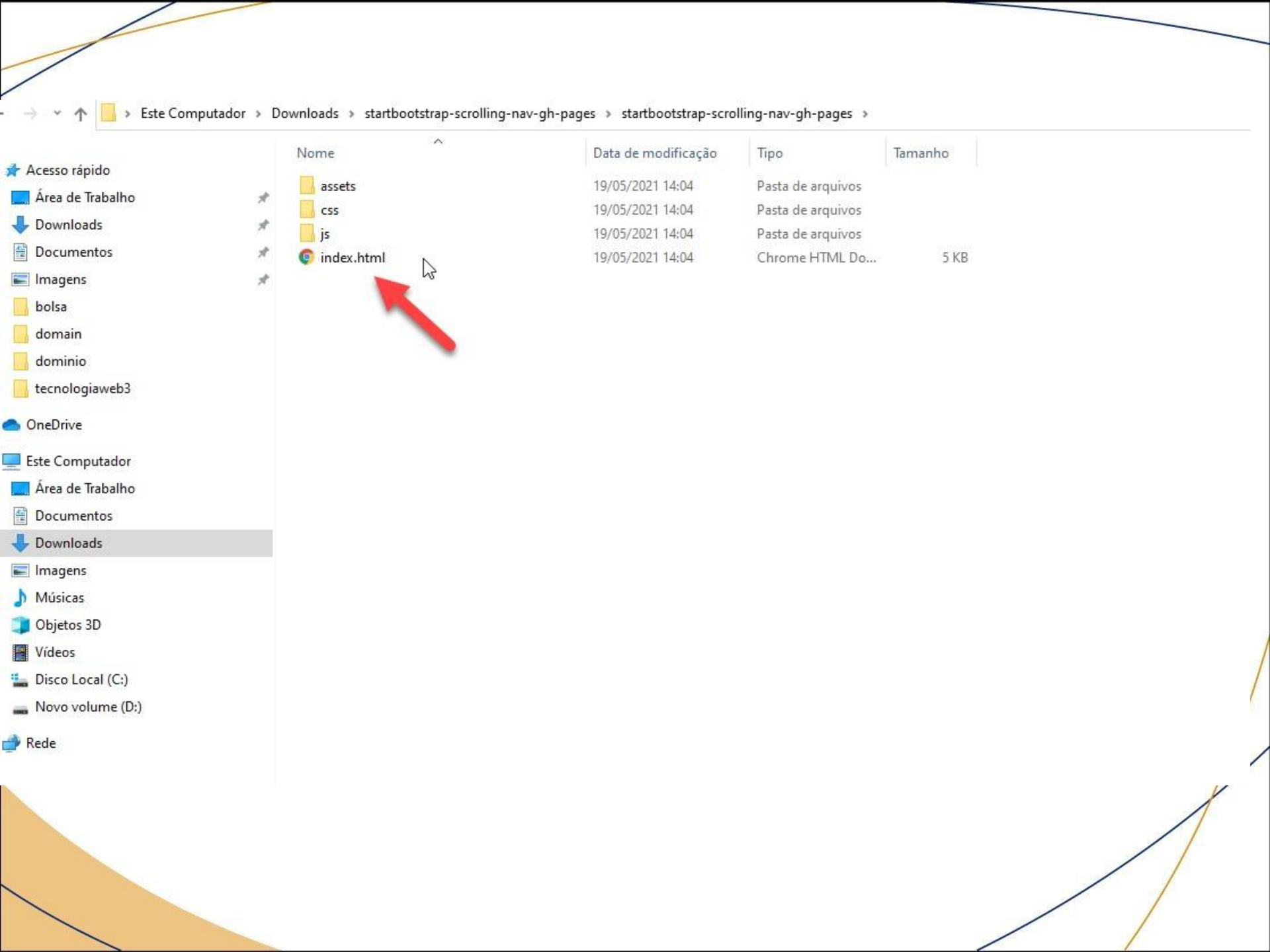
Pasta de arquivos
Semana passada (27)
drive-download-20210610T235126Z-001.zip
10/06/2021 21:19
Arquivo ZIP do Wi...
2.083.285 KB
drive-download-20210610T235126Z-002.zip
10/06/2021 21:19
Arquivo ZIP do Wi...
2.095.573 KB
Abrir
Compartilhar com o Skype
Abrir com o WinRAR
Extrair arquivos...
Extrair aqui
Extrair para "startbootstrap-scrolling-nav-gh-pages\"
Verificar com o Microsoft Defender...
Compartilhar
Abrir com
Conceder acesso a
WinMerge
Restaurar versões anteriores
Enviar para
Recortar
Copiar
Criar atalho
Excluir
Renomear
Propriedades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Objetos 3D
Vídeos
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Novo volume (D:)
Rede
Nome
Data de modificação
Tipo
Tamanho
assets
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Pasta de arquivos
css
19/05/2021 14:04
Pasta de arquivos
js
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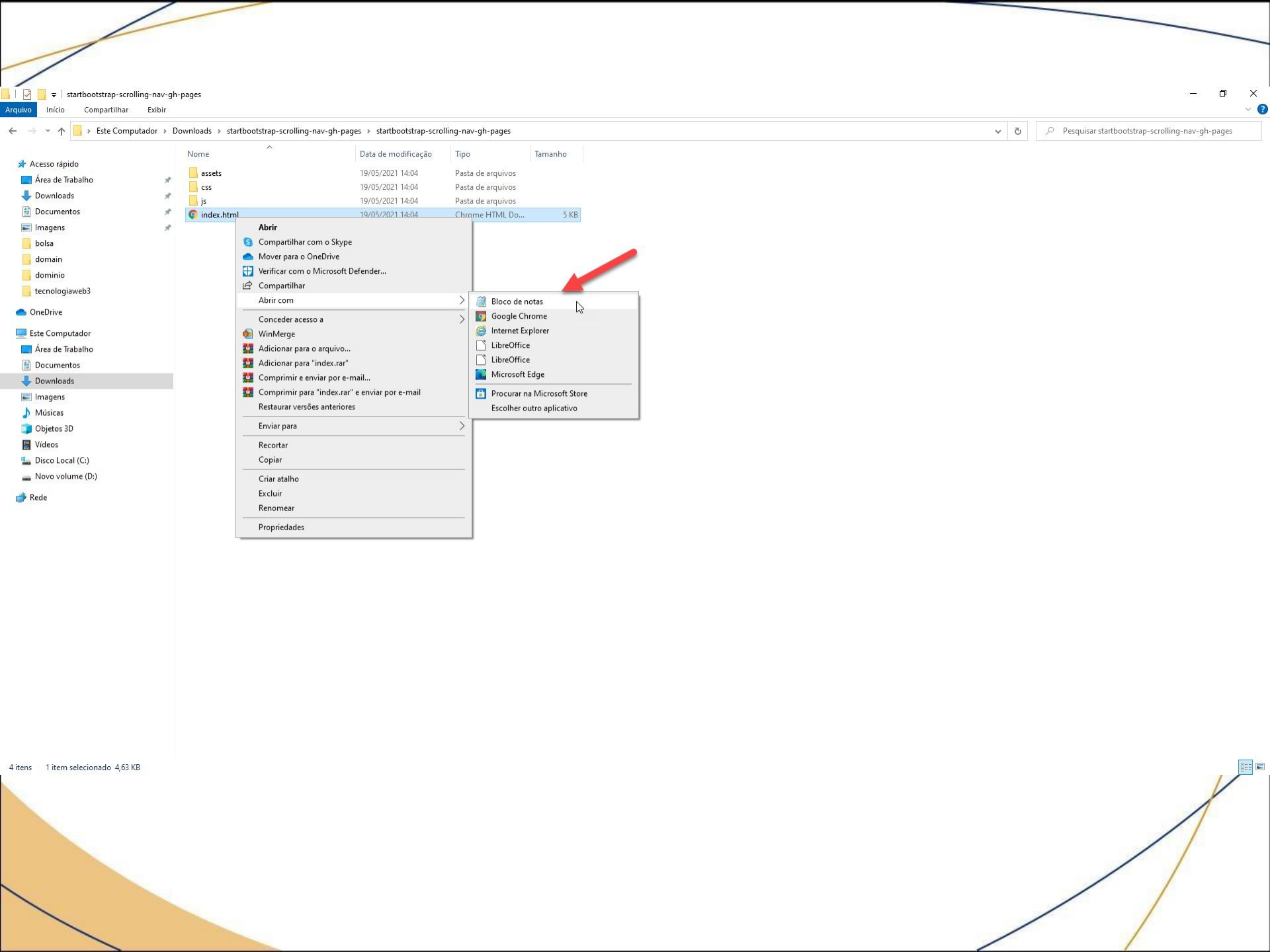
Pasta de arquivos
index.html
19/05/2021 14:04
Chrome HTML Do...
5 KB


startbootstrap-scrolling-nav-gh-pages
Arquivo
Início
Compartilhar
Exibir
Este Computador › Downloads › startbootstrap-scrolling-nav-gh-pages › startbootstrap-scrolling-nav-gh-pages
Pesquisar startbootstrap-scrolling-nav-gh-pages
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tecnologiaweb3
OneDrive
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Objetos 3D
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Disco Local (C:)
Novo volume (D:)
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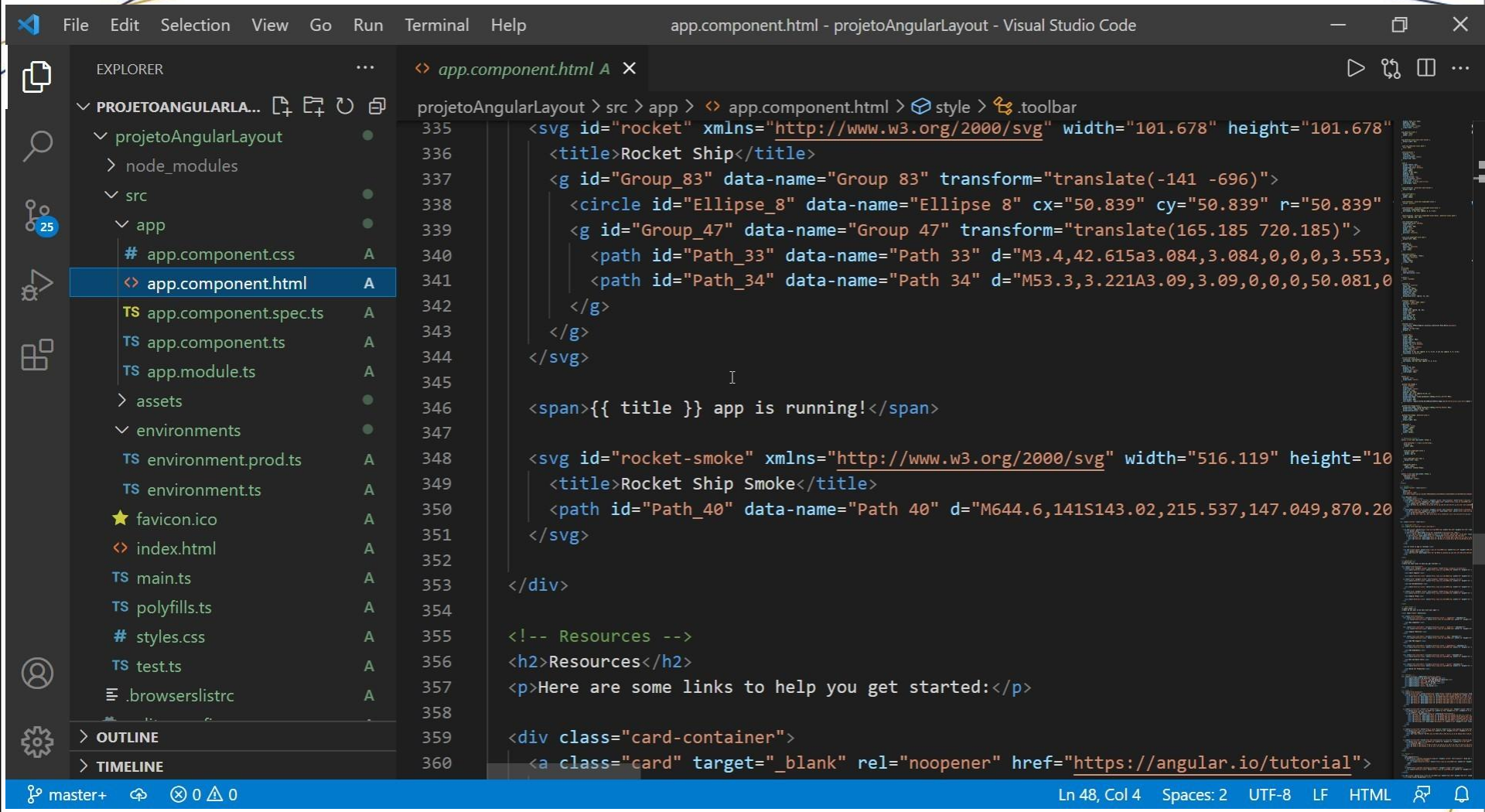
Data de modificação
Tipo
Tamanho
assets 19/05/2021 14:04 Pasta de arquivos
css 19/05/2021 14:04 Pasta de arquivos
js 19/05/2021 14:04 Pasta de arquivos
index.html 19/05/2021 14:04 Chrome HTML Do... 5 KB
Abrir
Compartilhar com o Skype
Mover para o OneDrive
Verificar com o Microsoft Defender...
Compartilhar
Abrir com
Conceder acesso a
WinMerge
Adicionar para o arquivo...
Adicionar para "index.rar"
Comprimir e enviar por e-mail...
Comprimir para "index.rar" e enviar por e-mail
Restaurar versões anteriores
Enviar para
Recortar
Copiar
Criar atalho
Excluir
Renomear
Propriedades
Bloco de notas
Google Chrome
Internet Explorer
LibreOffice
LibreOffice
Microsoft Edge
Procurar na Microsoft Store
Escolher outro aplicativo
4 itens
1 item selecionado 4,63 KB

index.html - Bloco de Notas

Arquivo Editar Formatar Exibir Ajuda

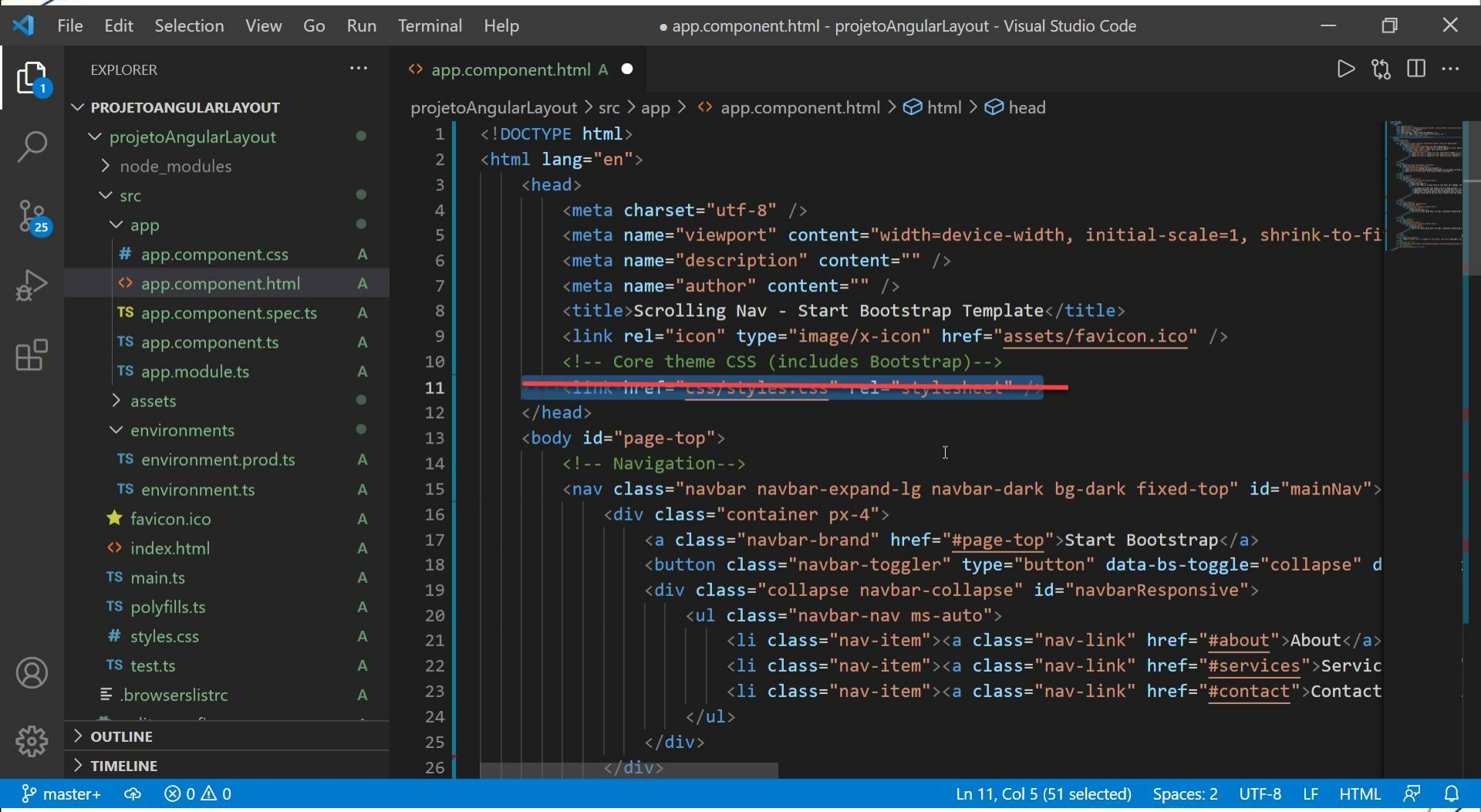
```
<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="utf-8" />
        <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no" />
        <meta name="description" content="" />
        <meta name="author" content="" />
        <title>Scrolling Nav - Start Bootstrap Template</title>
        <link rel="icon" type="image/x-icon" href="assets/favicon.ico" />
        <!-- Core theme CSS (includes Bootstrap)-->
        <link href="css/styles.css" rel="stylesheet" />
    </head>
    <body id="page-top">
        <!-- Navigation-->
        <nav class="navbar navbar-expand-lg navbar-dark bg-dark fixed-top" id="mainNav">
            <div class="container px-4">
                <a class="navbar-brand" href="#page-top">Start Bootstrap</a>
                <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarResponsive" aria-controls="navbarResponsive" aria-expande
                <div class="collapse navbar-collapse" id="navbarResponsive">
                    <ul class="navbar-nav ms-auto">
                        <li class="nav-item"><a class="nav-link" href="#about">About</a></li>
                        <li class="nav-item"><a class="nav-link" href="#services">Services</a></li>
                        <li class="nav-item"><a class="nav-link" href="#contact">Contact</a></li>
                    </ul>
                </div>
            </div>
        </nav>
        <!-- Header-->
        <header class="bg-primary bg-gradient text-white">
            <div class="container px-4 text-center">
                <h1 class="fw-bolder">Welcome to Scrolling Nav</h1>
                <p class="lead">A functional Bootstrap 5 boilerplate for one page scrolling websites</p>
                <a class="btn btn-lg btn-light" href="#about">Start scrolling!</a>
            </div>
        </header>
```

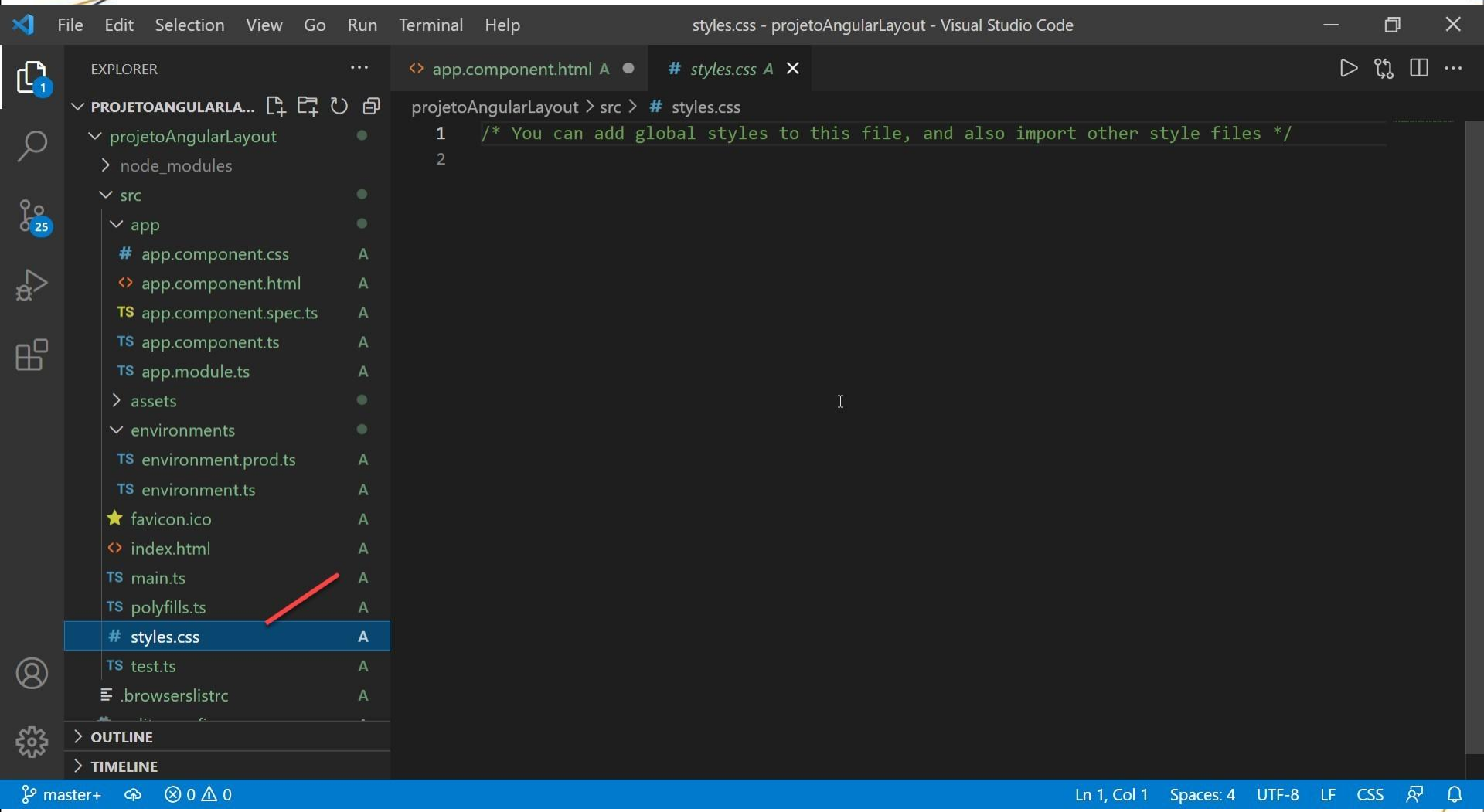
Ln 85, Col 1 | 100% | Unix (LF) | UTF-8


File Edit Selection View Go Run Terminal Help
app.component.html - projetoAngularLayout - Visual Studio Code
EXPLORER
PROJETOANGULARLA...
projetoAngularLayout
node_modules
src
app
app.component.css
app.component.html
app.component.spec.ts
app.component.ts
app.module.ts
assets
environments
environment.prod.ts
environment.ts
favicon.ico
index.html
main.ts
polyfills.ts
styles.css
test.ts
.browserslistrc
OUTLINE
TIMELINE
app.component.html A
projetoAngularLayout > src > app > app.component.html > style > .toolbar
<svg id="rocket" xmlns="http://www.w3.org/2000/svg" width="101.678" height="101.678"
<title>Rocket Ship</title>
<g id="Group_83" data-name="Group 83" transform="translate(-141 -696)">
<circle id="Ellipse_8" data-name="Ellipse 8" cx="50.839" cy="50.839" r="50.839"
<g id="Group_47" data-name="Group 47" transform="translate(165.185 720.185)">
<path id="Path_33" data-name="Path 33" d="M3.4,42.615a3.084,3.084,0,0,0,3.553,
<path id="Path_34" data-name="Path 34" d="M53.3,3.221A3.09,3.09,0,0,0,50.081,0
</g>
</g>
</svg>
{{ title }} app is running!
<svg id="rocket-smoke" xmlns="http://www.w3.org/2000/svg" width="516.119" height="10
<title>Rocket Ship Smoke</title>
<path id="Path_40" data-name="Path 40" d="M644.6,141S143.02,215.537,147.049,870.20
</svg>

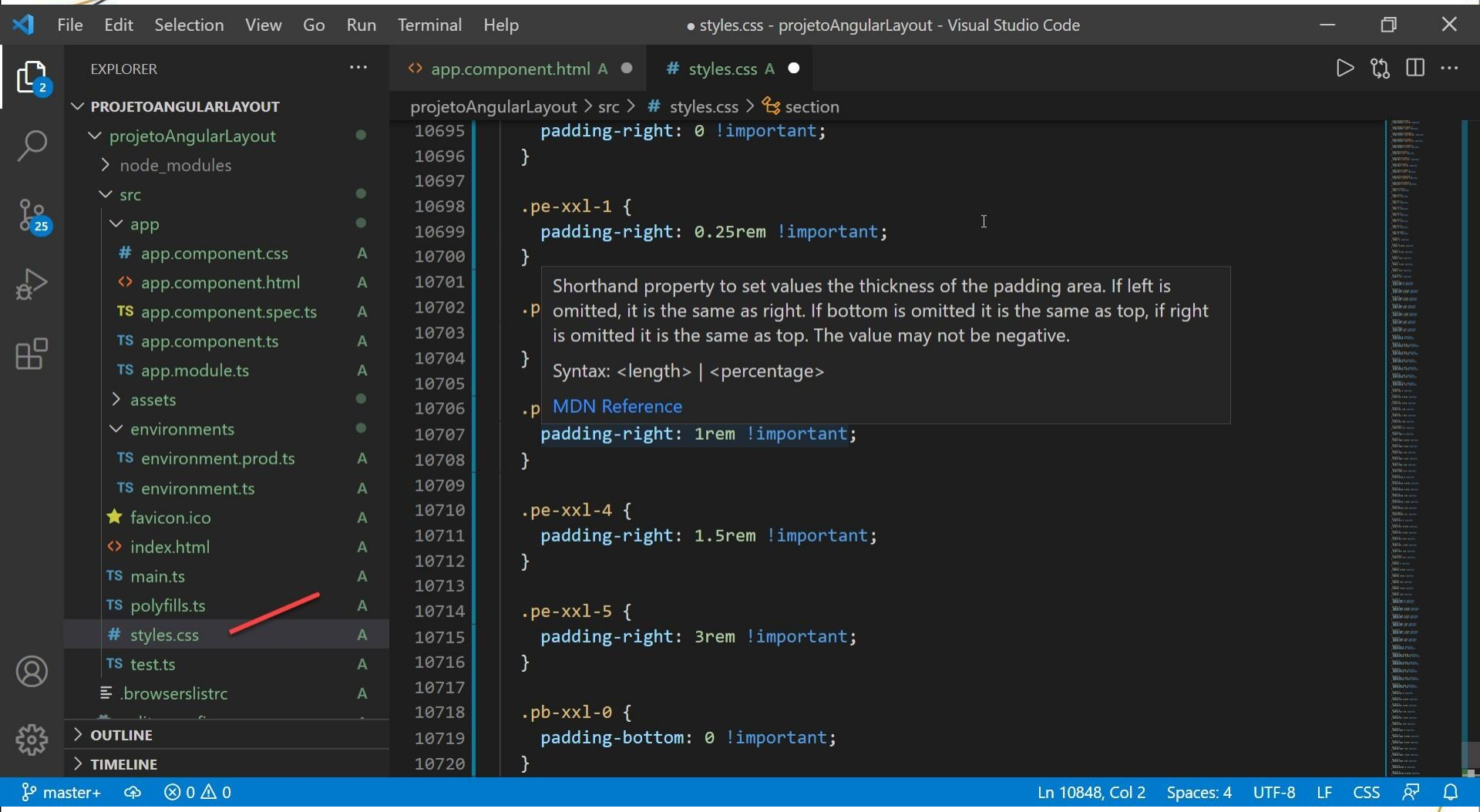
<!-- Resources -->
<h2>Resources</h2>
Here are some links to help you get started:

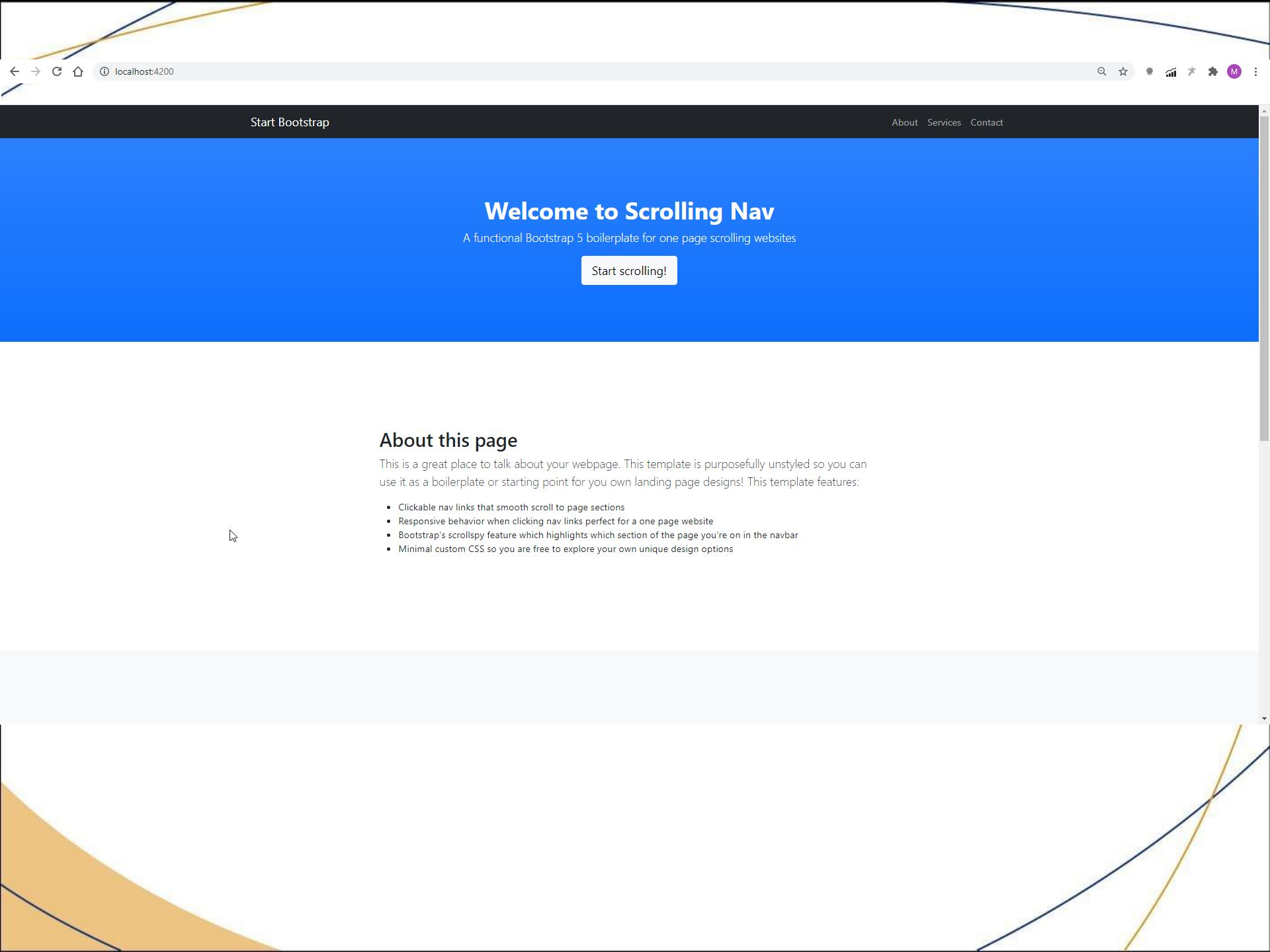
<a class="card" target="_blank" rel="noopener" href="https://angular.io/tutorial">
master+
0 0
Ln 48, Col 4
Spaces: 2
UTF-8
LF
HTML


File Edit Selection View Go Run Terminal Help
• app.component.html - projetoAngularLayout - Visual Studio Code
EXPLORER
app.component.html A
PROJETOANGULARLAYOUT
projetoAngularLayout
node_modules
src
app
app.component.css A
app.component.html A
app.component.spec.ts A
app.component.ts A
app.module.ts A
assets
environments
environment.prod.ts A
environment.ts A
favicon.ico A
index.html A
main.ts A
polyfills.ts A
styles.css A
test.ts A
.browserslistrc A
OUTLINE
TIMELINE
projetoAngularLayout > src > app > app.component.html > html > head
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="utf-8" />
5 <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fi
6 <meta name="description" content="" />
7 <meta name="author" content="" />
8 <title>Scrolling Nav - Start Bootstrap Template</title>
9 <link rel="icon" type="image/x-icon" href="assets/favicon.ico" />
10 <!-- Core theme CSS (includes Bootstrap)-->
11 <link href="css/styles.css" rel="stylesheet" />
12 </head>
13 <body id="page-top">
14 <!-- Navigation-->
15 <nav class="navbar navbar-expand-lg navbar-dark bg-dark fixed-top" id="mainNav">
16
17 Start Bootstrap
18 <button class="navbar-toggler" type="button" data-bs-toggle="collapse" d
19
20 <ul class="navbar-nav ms-auto">
21 <li class="nav-item">About
22 <li class="nav-item"><a class="nav-link" href="#services">Servic
23 <li class="nav-item"><a class="nav-link" href="#contact">Contact
24
25
26
master+
0 0
Ln 11, Col 5 (51 selected)
Spaces: 2
UTF-8
LF
HTML

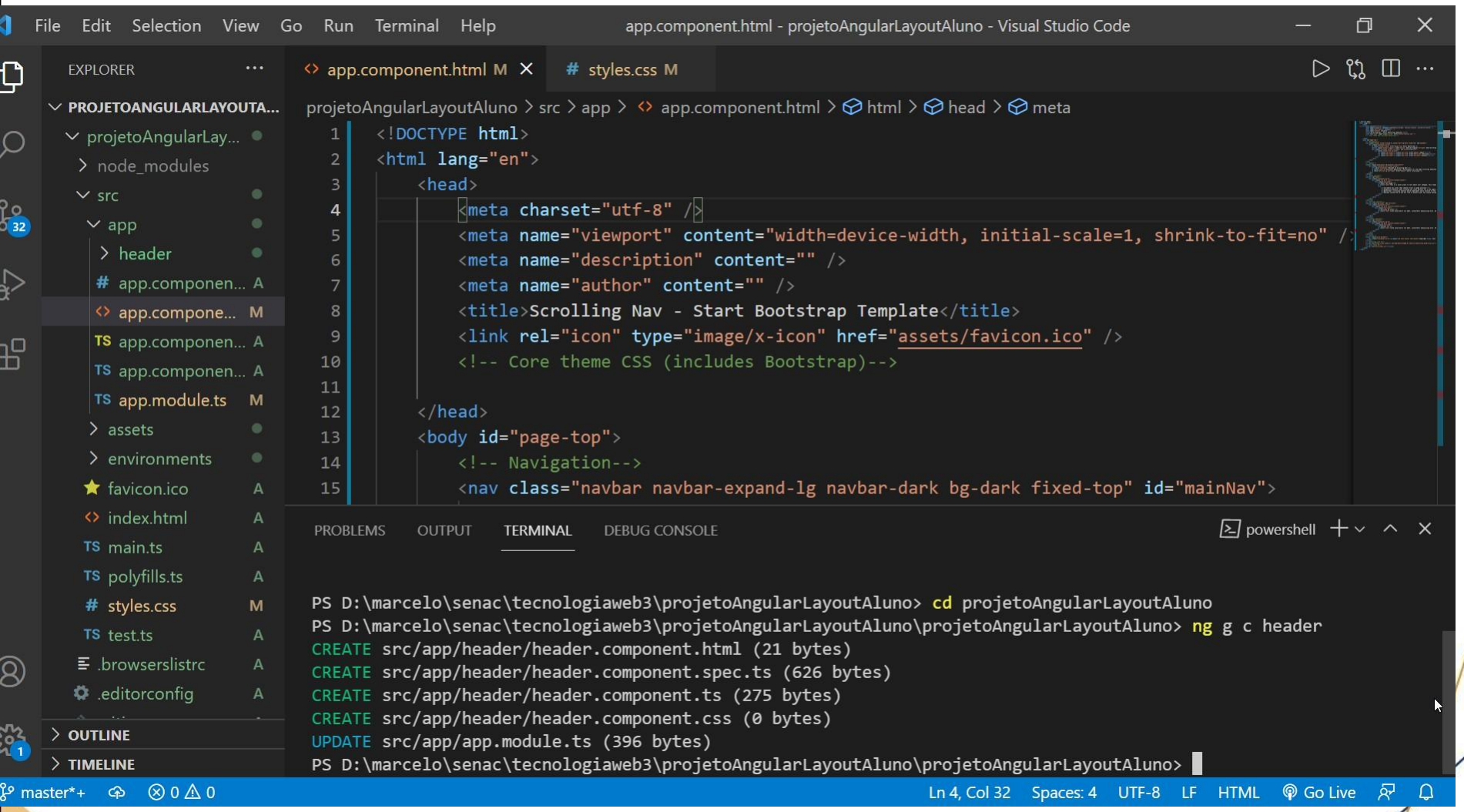

File Edit Selection View Go Run Terminal Help
styles.css - projetoAngularLayout - Visual Studio Code
EXPLORER
PROJETOANGULARLA...
projetoAngularLayout
node_modules
src
app
app.component.css A
app.component.html A
app.component.spec.ts A
app.component.ts A
app.module.ts A
assets
environments
environment.prod.ts A
environment.ts A
favicon.ico A
index.html A
main.ts A
polyfills.ts A
styles.css A
test.ts A
.browserslistrc A
OUTLINE
TIMELINE
app.component.html A
styles.css A
projetoAngularLayout > src > styles.css
1 /* You can add global styles to this file, and also import other style files */
2
master+
0 0
Ln 1, Col 1
Spaces: 4
UTF-8
LF
CSS

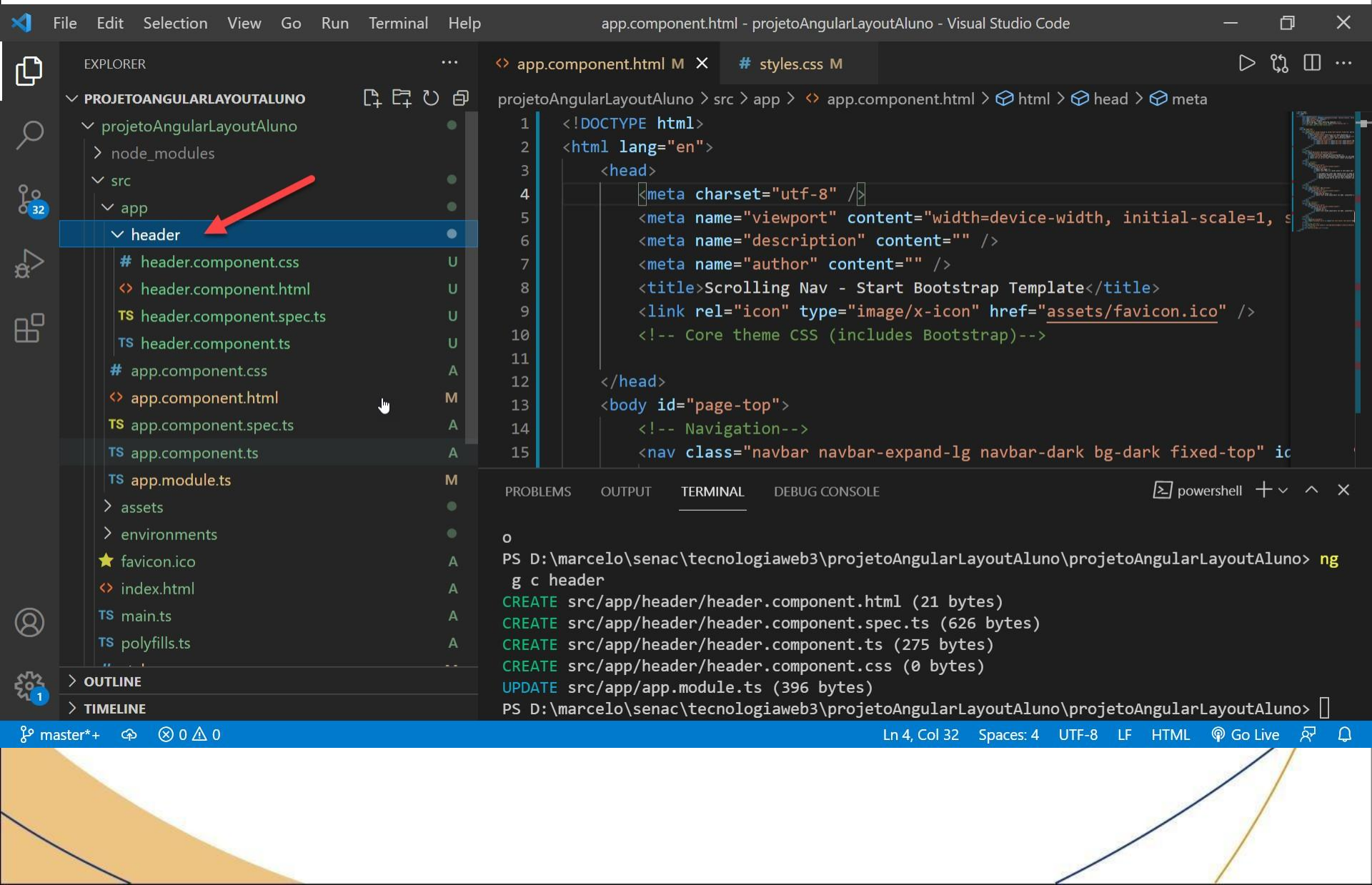

Nome
Data de modificação
Tipo
Tamanho
assets
19/05/2021 14:04
Pasta de arquivos
css
19/05/2021 14:04
Pasta de arquivos
js
19/05/2021 14:04
Pasta de arquivos
index.html
19/05/2021 14:04
Chrome HTML Do...
5 KB


File Edit Selection View Go Run Terminal Help
● styles.css - projetoAngularLayout - Visual Studio Code
EXPLORER
app.component.html A
styles.css A
projetoAngularLayout > src > # styles.css > section
PROJETOANGULARLAYOUT
projetoAngularLayout
node_modules
src
app
app.component.css A
app.component.html A
app.component.spec.ts A
app.component.ts A
app.module.ts A
assets
environments
environment.prod.ts A
environment.ts A
favicon.ico A
index.html A
main.ts A
polyfills.ts A
styles.css A
test.ts A
.browserslistrc A
OUTLINE
TIMELINE
10695 padding-right: 0 !important;
10696 }
10697
10698 .pe-xxl-1 {
10699 padding-right: 0.25rem !important;
10700 }
10701
10702 .p
10703
10704 }
10705
10706 .p
10707 padding-right: 1rem !important;
10708 }
10709
10710 .pe-xxl-4 {
10711 padding-right: 1.5rem !important;
10712 }
10713
10714 .pe-xxl-5 {
10715 padding-right: 3rem !important;
10716 }
10717
10718 .pb-xxl-0 {
10719 padding-bottom: 0 !important;
10720 }
Shorthand property to set values the thickness of the padding area. If left is omitted, it is the same as right. If bottom is omitted it is the same as top, if right is omitted it is the same as top. The value may not be negative.
Syntax: <length> | <percentage>
MDN Reference
master+
0 0
Ln 10848, Col 2
Spaces: 4
UTF-8
LF
CSS


localhost:4200
Start Bootstrap
About
Services
Contact
Welcome to Scrolling Nav
A functional Bootstrap 5 boilerplate for one page scrolling websites
Start scrolling!
About this page
This is a great place to talk about your webpage. This template is purposefully unstyled so you can use it as a boilerplate or starting point for you own landing page designs! This template features:
Clickable nav links that smooth scroll to page sections
Responsive behavior when clicking nav links perfect for a one page website
Bootstrap's scrollspy feature which highlights which section of the page you're on in the navbar
Minimal custom CSS so you are free to explore your own unique design options

Compreender o uso de componente


File Edit Selection View Go Run Terminal Help
app.component.html - projetoAngularLayoutAluno - Visual Studio Code
EXPLORER
app.component.html M
styles.css M
projetoAngularLayoutAluno > src > app > app.component.html > html > head > meta
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8" />
<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no" />
<meta name="description" content="" />
<meta name="author" content="" />
<title>Scrolling Nav - Start Bootstrap Template</title>
<link rel="icon" type="image/x-icon" href="assets/favicon.ico" />
<!-- Core theme CSS (includes Bootstrap)-->
</head>
<body id="page-top">
<!-- Navigation-->
<nav class="navbar navbar-expand-lg navbar-dark bg-dark fixed-top" id="mainNav">
PROJETOANGULARLAYOUTA...
projetoAngularLay...
node_modules
src
app
header
app.componen... A
app.compone... M
app.componen... A
app.componen... A
app.module.ts M
assets
environments
favicon.ico A
index.html A
main.ts A
polyfills.ts A
styles.css M
test.ts A
.browserslistrc A
.editorconfig A
OUTLINE
TIMELINE
PROBLEMS
OUTPUT
TERMINAL
DEBUG CONSOLE
powershell
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno> cd projetoAngularLayoutAluno
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno> ng g c header
CREATE src/app/header/header.component.html (21 bytes)
CREATE src/app/header/header.component.spec.ts (626 bytes)
CREATE src/app/header/header.component.ts (275 bytes)
CREATE src/app/header/header.component.css (0 bytes)
UPDATE src/app/app.module.ts (396 bytes)
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno>
master*+
0 0
Ln 4, Col 32
Spaces: 4
UTF-8
LF
HTML
Go Live


File Edit Selection View Go Run Terminal Help
app.component.html - projetoAngularLayoutAluno - Visual Studio Code
EXPLORER
PROJETOANGULARLAYOUTALUNO
projetoAngularLayoutAluno
node_modules
src
app
header
header.component.css
header.component.html
header.component.spec.ts
header.component.ts
app.component.css
app.component.html
app.component.spec.ts
app.component.ts
app.module.ts
assets
environments
favicon.ico
index.html
main.ts
polyfills.ts
OUTLINE
TIMELINE
app.component.html M
styles.css M
projetoAngularLayoutAluno > src > app > app.component.html > html > head > meta
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8" />
<meta name="viewport" content="width=device-width, initial-scale=1,
<meta name="description" content="" />
<meta name="author" content="" />
<title>Scrolling Nav - Start Bootstrap Template</title>
<link rel="icon" type="image/x-icon" href="assets/favicon.ico" />
<!-- Core theme CSS (includes Bootstrap)-->
</head>
<body id="page-top">
<!-- Navigation-->
<nav class="navbar navbar-expand-lg navbar-dark bg-dark fixed-top" ic
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
powershell
o
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno> ng
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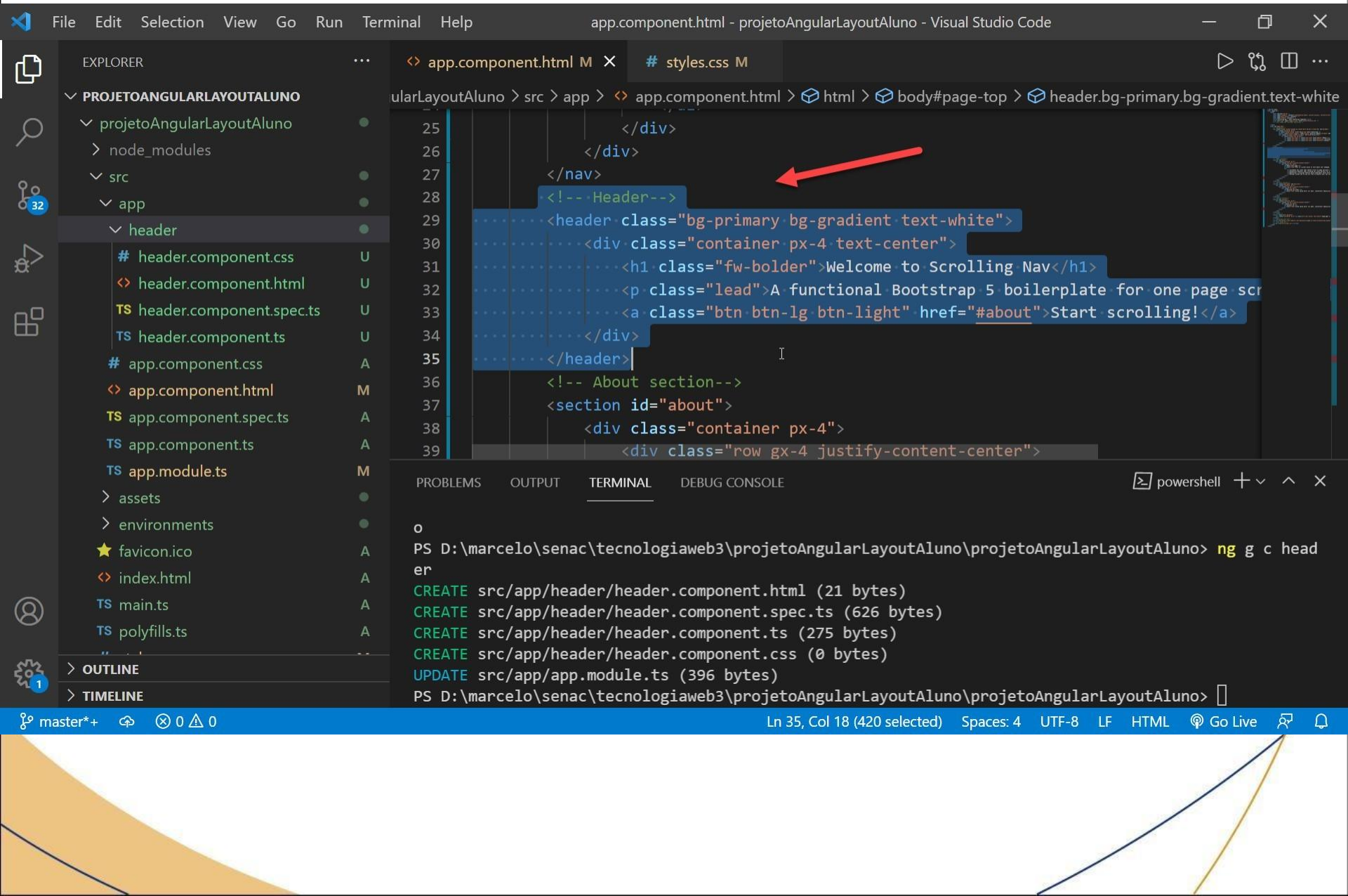
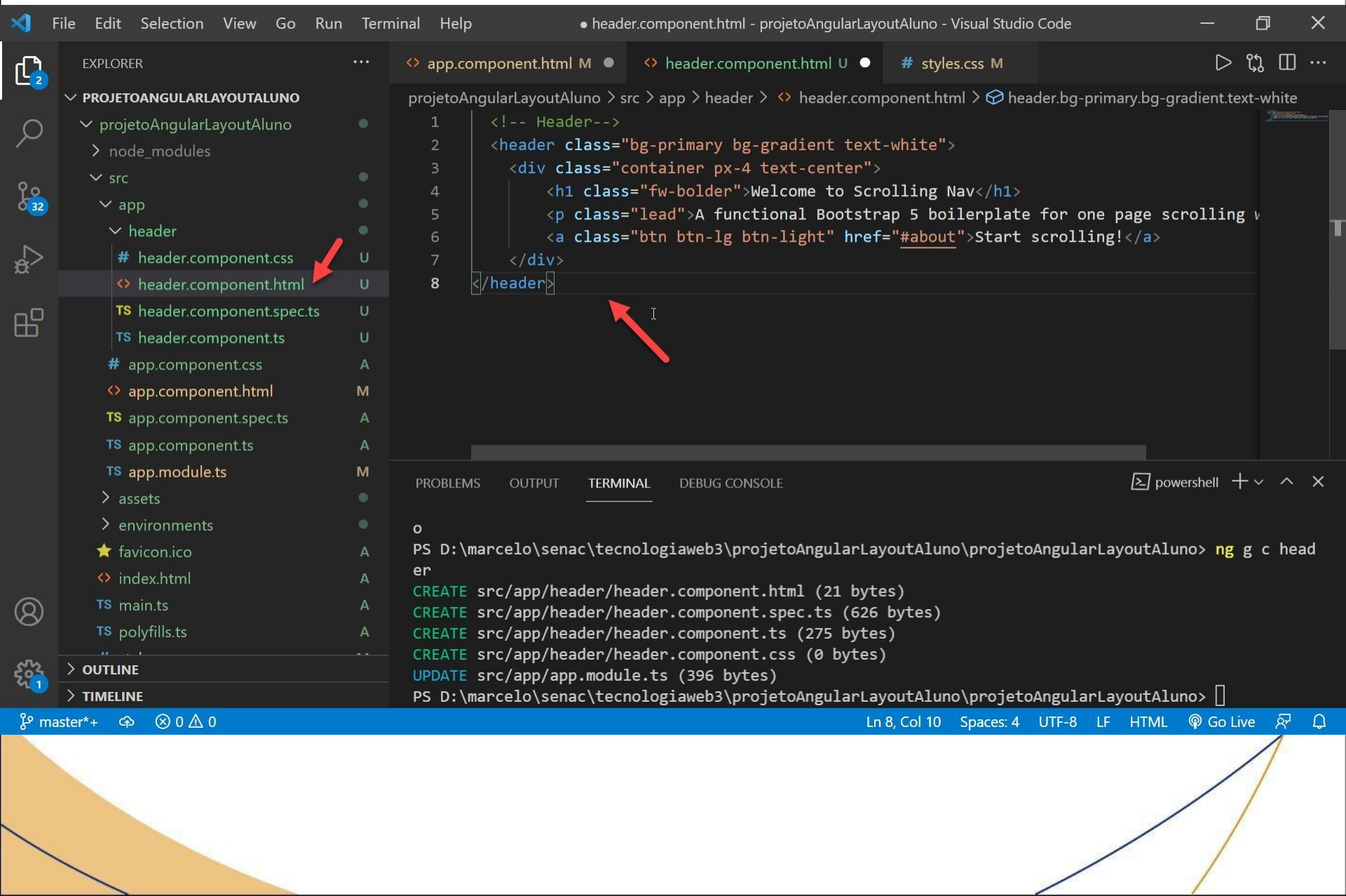
CREATE src/app/header/header.component.html (21 bytes)
CREATE src/app/header/header.component.spec.ts (626 bytes)
CREATE src/app/header/header.component.ts (275 bytes)
CREATE src/app/header/header.component.css (0 bytes)
UPDATE src/app/app.module.ts (396 bytes)
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno>
master*+
0 0
Ln 4, Col 32
Spaces: 4
UTF-8
LF
HTML
Go Live


File Edit Selection View Go Run Terminal Help
app.component.html - projetoAngularLayoutAluno - Visual Studio Code
EXPLORER
PROJETOANGULARLAYOUTALUNO
projetoAngularLayoutAluno
node_modules
src
app
header
header.component.css U
header.component.html U
header.component.spec.ts U
header.component.ts U
app.component.css A
app.component.html M
app.component.spec.ts A
app.component.ts A
app.module.ts M
assets
environments
favicon.ico A
index.html A
main.ts A
polyfills.ts A
OUTLINE
TIMELINE
app.component.html M
styles.css M
ularLayoutAluno > src > app > app.component.html > html > body#page-top > header.bg-primary.bg-gradient.text-white
25
26
27 </nav>
28 <!-- Header-->
29 <header class="bg-primary bg-gradient text-white">
30
31 <h1 class="fw-bolder">Welcome to Scrolling Nav</h1>
32 <p class="lead">A functional Bootstrap 5 boilerplate for one page scr
33 Start scrolling!
34
35 </header>
36 <!-- About section-->
37 <section id="about">
38
39
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
powershell
o
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno> ng g c head
er
CREATE src/app/header/header.component.html (21 bytes)
CREATE src/app/header/header.component.spec.ts (626 bytes)
CREATE src/app/header/header.component.ts (275 bytes)
CREATE src/app/header/header.component.css (0 bytes)
UPDATE src/app/app.module.ts (396 bytes)
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno>
master*+
0 0
Ln 35, Col 18 (420 selected)
Spaces: 4
UTF-8
LF
HTML
Go Live


File Edit Selection View Go Run Terminal Help
• header.component.html - projetoAngularLayoutAluno - Visual Studio Code
EXPLORER
PROJETOANGULARLAYOUTALUNO
projetoAngularLayoutAluno
node_modules
src
app
header
header.component.css U
header.component.html U
header.component.spec.ts U
header.component.ts U
app.component.css A
app.component.html M
app.component.spec.ts A
app.component.ts A
app.module.ts M
assets
environments
favicon.ico A
index.html A
main.ts A
polyfills.ts A
OUTLINE
TIMELINE
app.component.html M
header.component.html U
styles.css M
projetoAngularLayoutAluno > src > app > header > header.component.html > header.bg-primary.bg-gradient.text-white
1 <!-- Header-->
2 <header class="bg-primary bg-gradient text-white">
3
4 <h1 class="fw-bolder">Welcome to Scrolling Nav</h1>
5 <p class="lead">A functional Bootstrap 5 boilerplate for one page scrolling
6 Start scrolling!
7
8 </header>
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
powershell
o
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno> ng g c head
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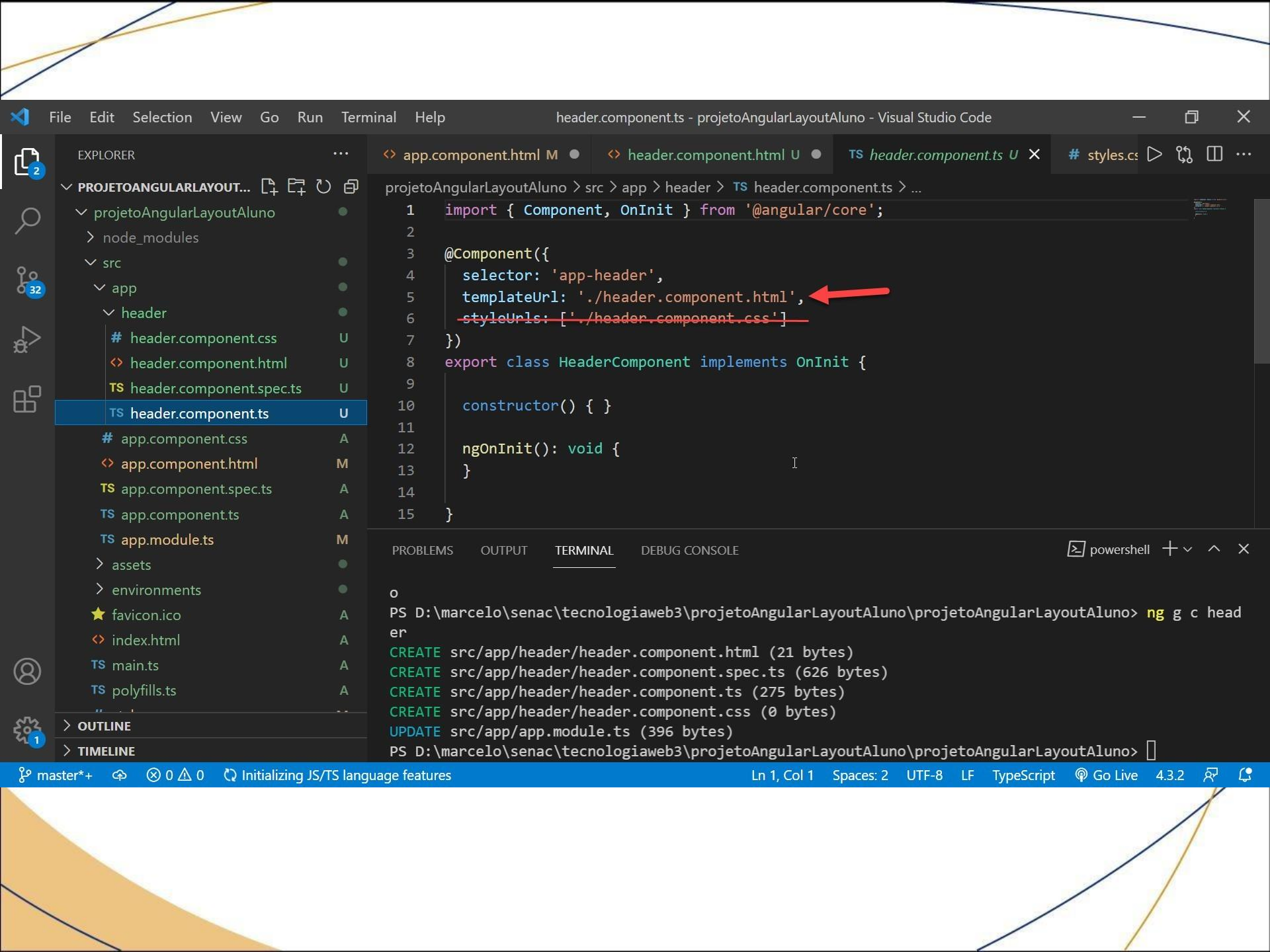
CREATE src/app/header/header.component.html (21 bytes)
CREATE src/app/header/header.component.spec.ts (626 bytes)
CREATE src/app/header/header.component.ts (275 bytes)
CREATE src/app/header/header.component.css (0 bytes)
UPDATE src/app/app.module.ts (396 bytes)
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno>
master*+ 0 0
Ln 8, Col 10 Spaces: 4 UTF-8 LF HTML Go Live


File Edit Selection View Go Run Terminal Help
header.component.ts - projetoAngularLayoutAluno - Visual Studio Code
EXPLORER
PROJETOANGULARLAYOUT...
projetoAngularLayoutAluno
node_modules
src
app
header
header.component.css U
header.component.html U
header.component.spec.ts U
header.component.ts U
app.component.css A
app.component.html M
app.component.spec.ts A
app.component.ts A
app.module.ts M
assets
environments
favicon.ico A
index.html A
main.ts A
polyfills.ts A
OUTLINE
TIMELINE
app.component.html M
header.component.html U
header.component.ts U
styles.cs
projetoAngularLayoutAluno > src > app > header > header.component.ts > ...
1 import { Component, OnInit } from '@angular/core';
2
3 @Component({
4 selector: 'app-header',
5 templateUrl: './header.component.html',
6 styleUrls: ['./header.component.css']
7 })
8 export class HeaderComponent implements OnInit {
9
10 constructor() { }
11
12 ngOnInit(): void {
13 }
14
15 }
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
powershell
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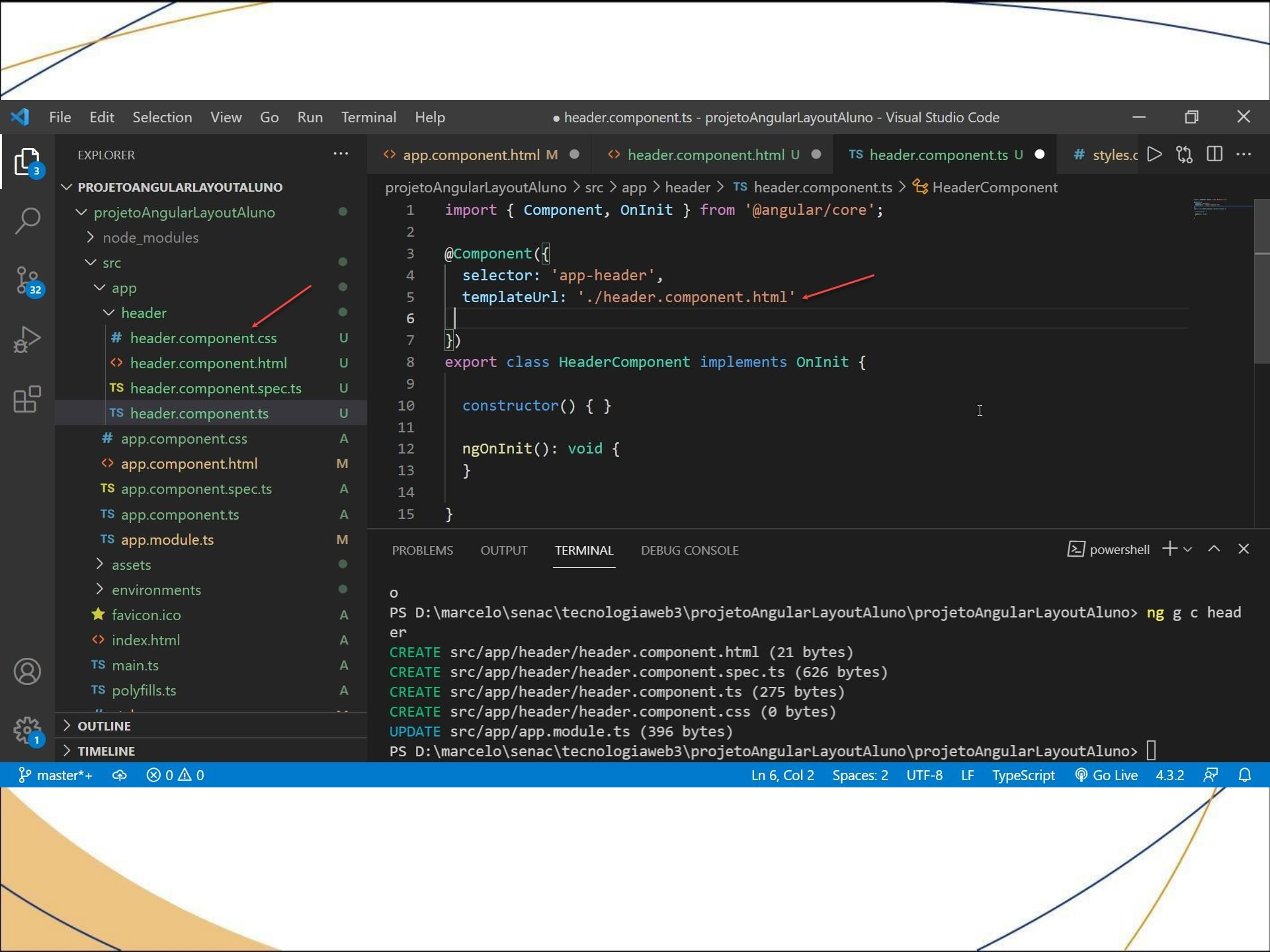
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno> ng g c head
er
CREATE src/app/header/header.component.html (21 bytes)
CREATE src/app/header/header.component.spec.ts (626 bytes)
CREATE src/app/header/header.component.ts (275 bytes)
CREATE src/app/header/header.component.css (0 bytes)
UPDATE src/app/app.module.ts (396 bytes)
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno>
master*+
0 0
Initializing JS/TS language features
Ln 1, Col 1
Spaces: 2
UTF-8
LF
TypeScript
Go Live
4.3.2


File Edit Selection View Go Run Terminal Help
• header.component.ts - projetoAngularLayoutAluno - Visual Studio Code
EXPLORER
PROJETOANGULARLAYOUTALUNO
projetoAngularLayoutAluno
node_modules
src
app
header
header.component.css U
header.component.html U
header.component.spec.ts U
header.component.ts U
app.component.css A
app.component.html M
app.component.spec.ts A
app.component.ts A
app.module.ts M
assets
environments
favicon.ico A
index.html A
main.ts A
polyfills.ts A
OUTLINE
TIMELINE
app.component.html M
header.component.html U
header.component.ts U
styles.c
projetoAngularLayoutAluno > src > app > header > header.component.ts > HeaderComponent
1 import { Component, OnInit } from '@angular/core';
2
3 @Component({
4 selector: 'app-header',
5 templateUrl: './header.component.html'
6
7 })
8 export class HeaderComponent implements OnInit {
9
10 constructor() { }
11
12 ngOnInit(): void {
13 }
14
15 }
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
powershell
o
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno> ng g c head
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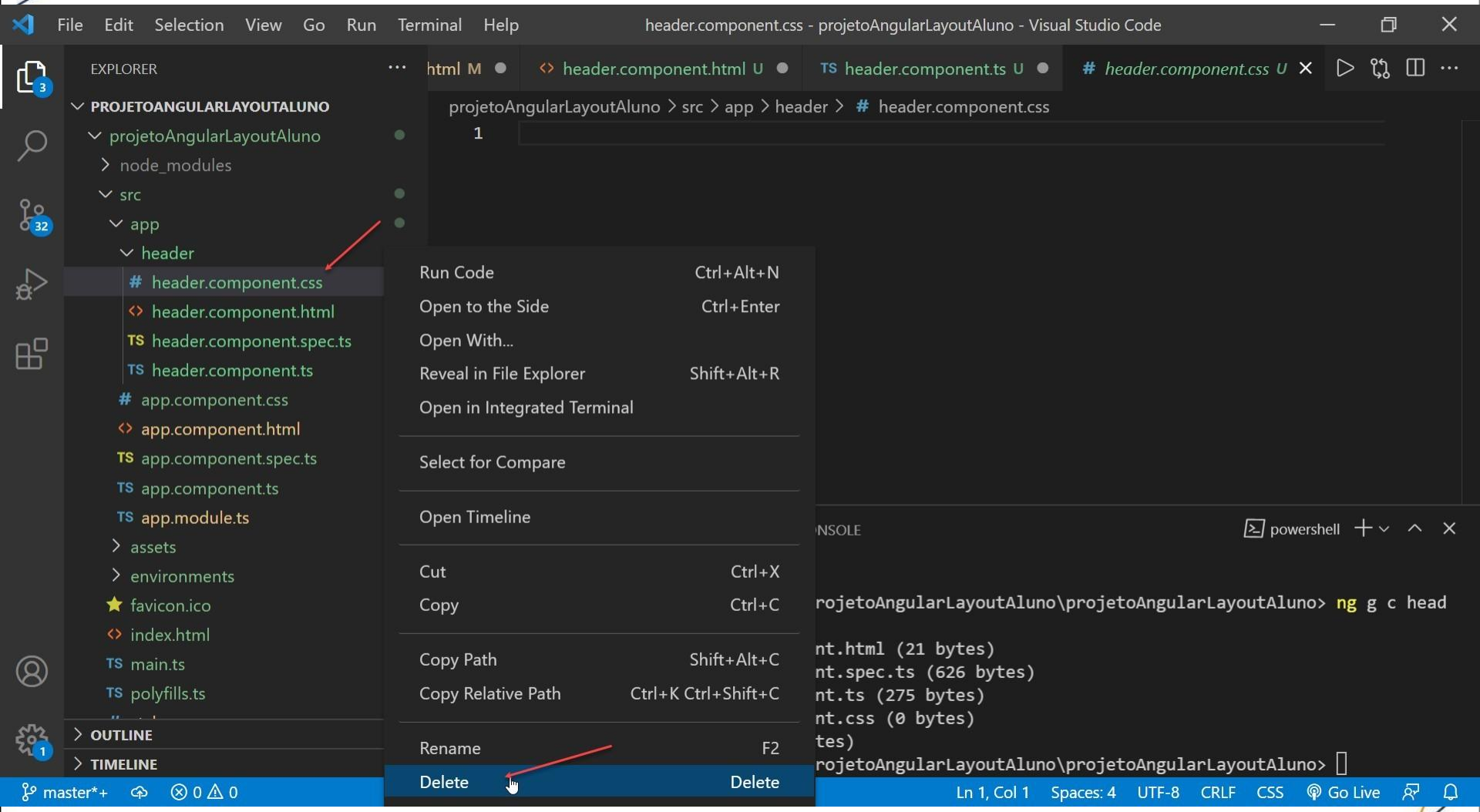
CREATE src/app/header/header.component.html (21 bytes)
CREATE src/app/header/header.component.spec.ts (626 bytes)
CREATE src/app/header/header.component.ts (275 bytes)
CREATE src/app/header/header.component.css (0 bytes)
UPDATE src/app/app.module.ts (396 bytes)
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno>
master*+ 0 0 Ln 6, Col 2 Spaces: 2 UTF-8 LF TypeScript Go Live 4.3.2


File Edit Selection View Go Run Terminal Help
header.component.css - projetoAngularLayoutAluno - Visual Studio Code
EXPLORER
header.component.html U
header.component.ts U
header.component.css U
PROJETOANGULARLAYOUTALUNO
projetoAngularLayoutAluno > src > app > header > # header.component.css
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header.component.spec.ts
header.component.ts
app.component.css
app.component.html
app.component.spec.ts
app.component.ts
app.module.ts
assets
environments
favicon.ico
index.html
main.ts
polyfills.ts
Run Code Ctrl+Alt+N
Open to the Side Ctrl+Enter
Open With...
Reveal in File Explorer Shift+Alt+R
Open in Integrated Terminal
Select for Compare
Open Timeline
Cut Ctrl+X
Copy Ctrl+C
Copy Path Shift+Alt+C
Copy Relative Path Ctrl+K Ctrl+Shift+C
Rename F2
Delete Delete
powershell
rojetoAngularLayoutAluno\projetoAngularLayoutAluno> ng g c head
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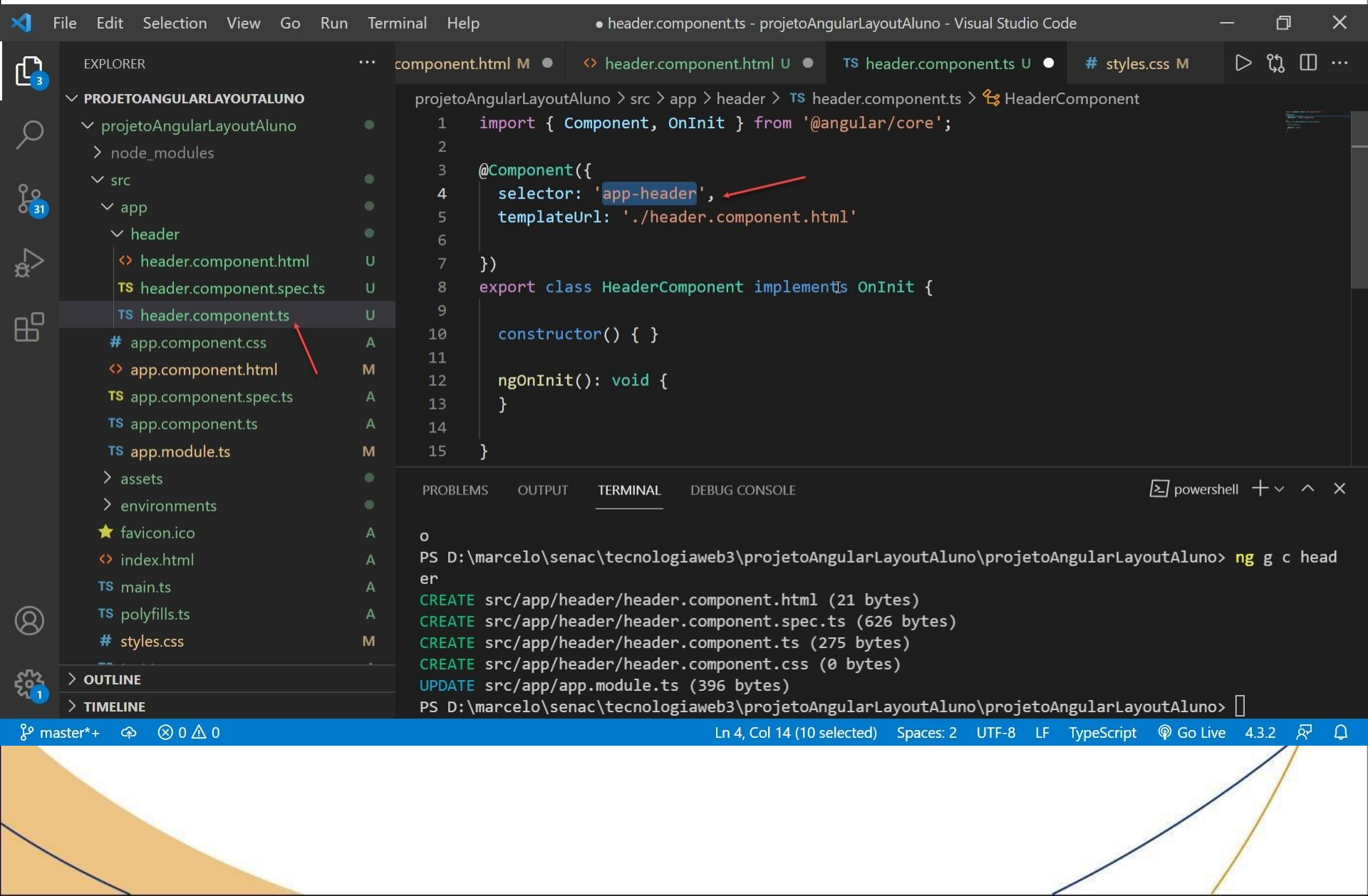
tes)
rojetoAngularLayoutAluno\projetoAngularLayoutAluno>
OUTLINE
TIMELINE
master*+
Ln 1, Col 1 Spaces: 4 UTF-8 CRLF CSS Go Live


File Edit Selection View Go Run Terminal Help
• header.component.ts - projetoAngularLayoutAluno - Visual Studio Code
EXPLORER
component.html M
header.component.html U
header.component.ts U
styles.css M
PROJETOANGULARLAYOUTALUNO
projetoAngularLayoutAluno
node_modules
src
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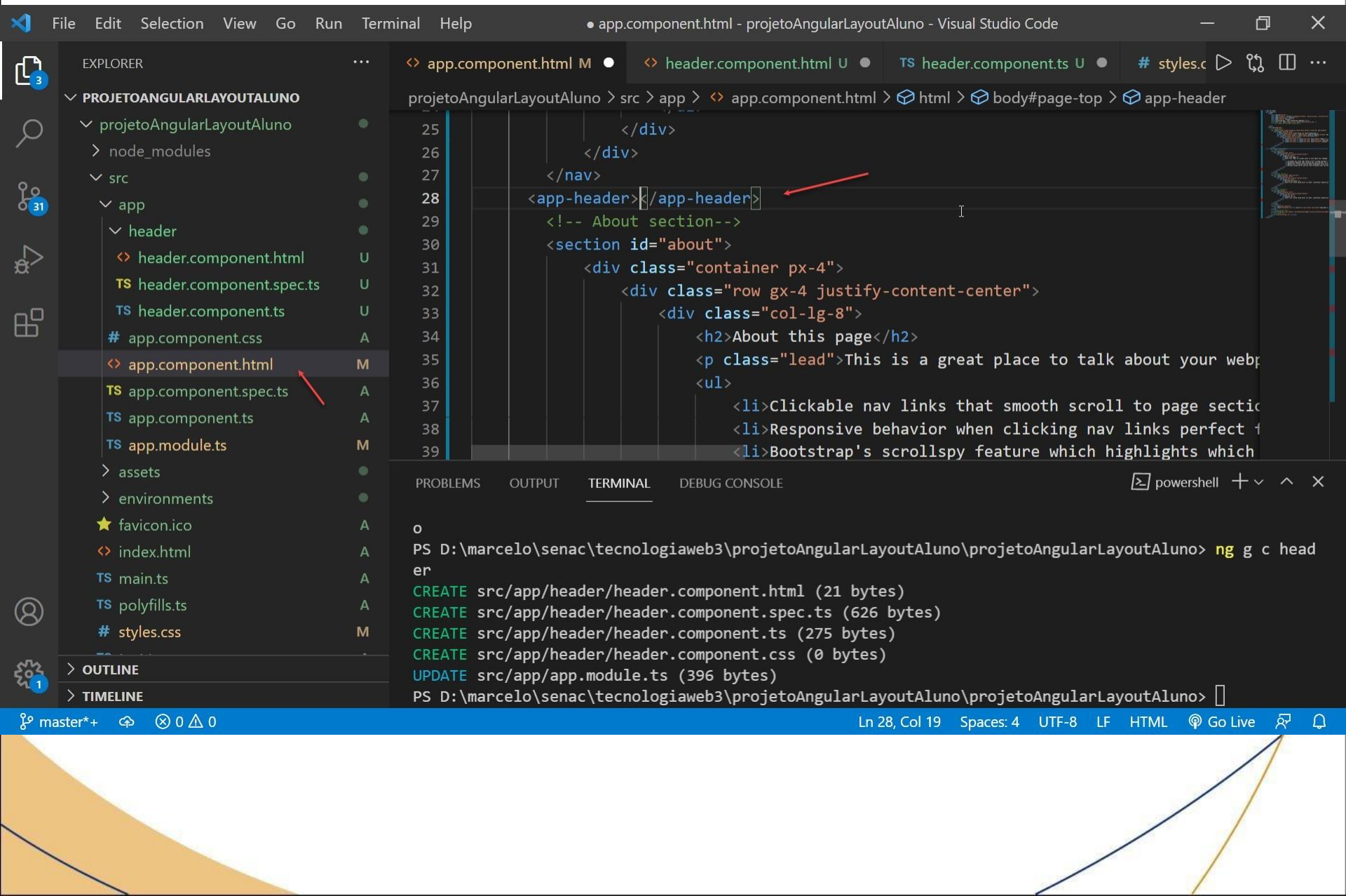
header.component.html U
header.component.spec.ts U
header.component.ts U
app.component.css A
app.component.html M
app.component.spec.ts A
app.component.ts A
app.module.ts M
assets
environments
favicon.ico A
index.html A
main.ts A
polyfills.ts A
styles.css M
OUTLINE
TIMELINE
projetoAngularLayoutAluno > src > app > header > header.component.ts > HeaderComponent
1 import { Component, OnInit } from '@angular/core';
2
3 @Component({
4 selector: 'app-header',
5 templateUrl: './header.component.html'
6
7 })
8 export class HeaderComponent implements OnInit {
9
10 constructor() { }
11
12 ngOnInit(): void {
13 }
14
15 }
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
powershell
o
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno> ng g c head
er
CREATE src/app/header/header.component.html (21 bytes)
CREATE src/app/header/header.component.spec.ts (626 bytes)
CREATE src/app/header/header.component.ts (275 bytes)
CREATE src/app/header/header.component.css (0 bytes)
UPDATE src/app/app.module.ts (396 bytes)
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno>
master*+
0 0
Ln 4, Col 14 (10 selected)
Spaces: 2
UTF-8
LF
TypeScript
Go Live
4.3.2


File Edit Selection View Go Run Terminal Help
● app.component.html - projetoAngularLayoutAluno - Visual Studio Code
EXPLORER
PROJETOANGULARLAYOUTALUNO
projetoAngularLayoutAluno
node_modules
src
app
header
header.component.html U
header.component.spec.ts U
header.component.ts U
app.component.css A
app.component.html M
app.component.spec.ts A
app.component.ts A
app.module.ts M
assets
environments
favicon.ico A
index.html A
main.ts A
polyfills.ts A
styles.css M
OUTLINE
TIMELINE
app.component.html M
header.component.html U
header.component.ts U
styles.c
projetoAngularLayoutAluno > src > app > app.component.html > html > body#page-top > app-header
25
26
27 </nav>
28 <app-header></app-header>
29 <!-- About section-->
30 <section id="about">
31
32
33
34 <h2>About this page</h2>
35 <p class="lead">This is a great place to talk about your webp
36
37 Clickable nav links that smooth scroll to page sectic
38 Responsive behavior when clicking nav links perfect
39 Bootstrap's scrollspy feature which highlights which
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
powershell
o
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno> ng g c head
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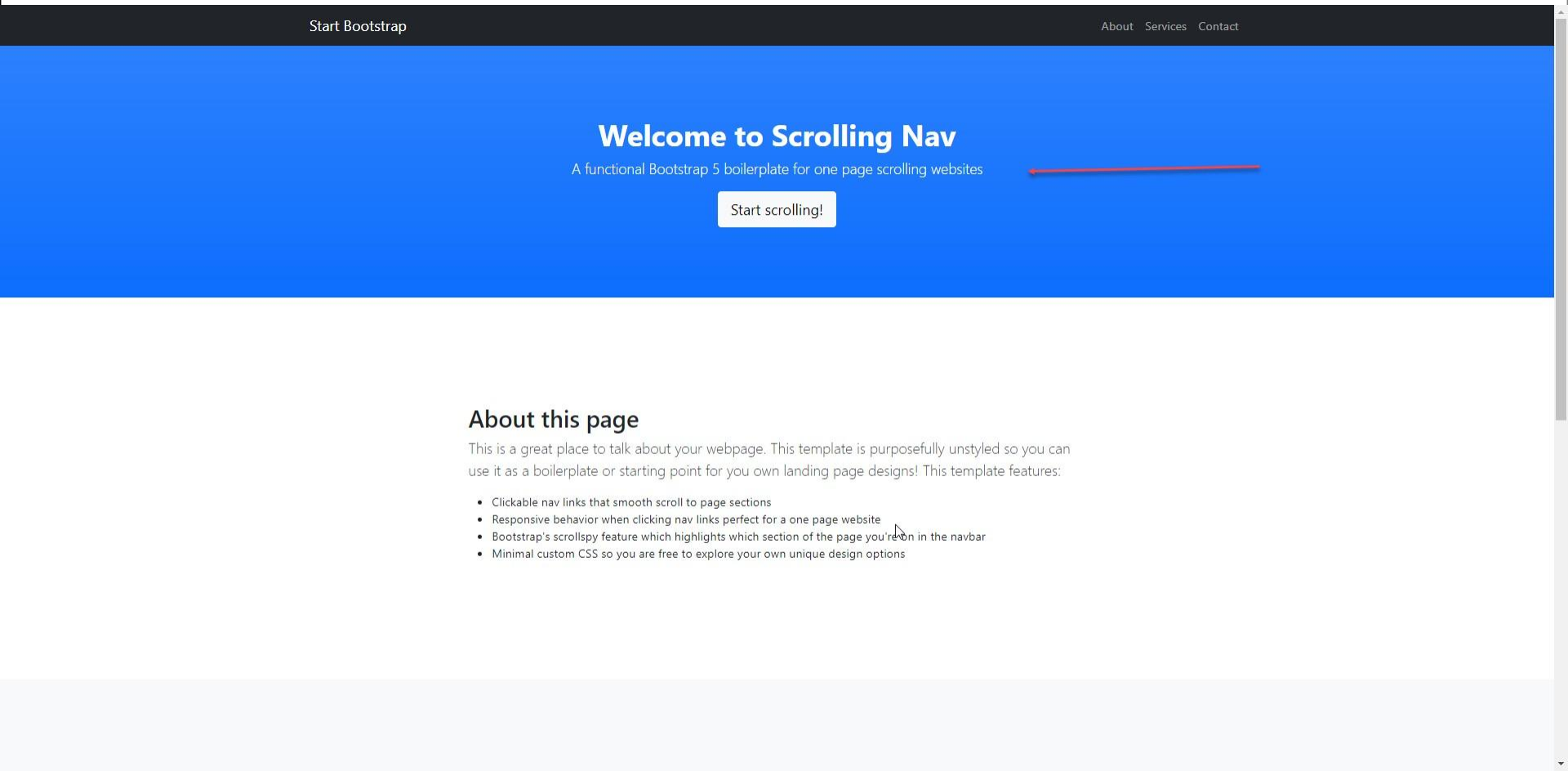
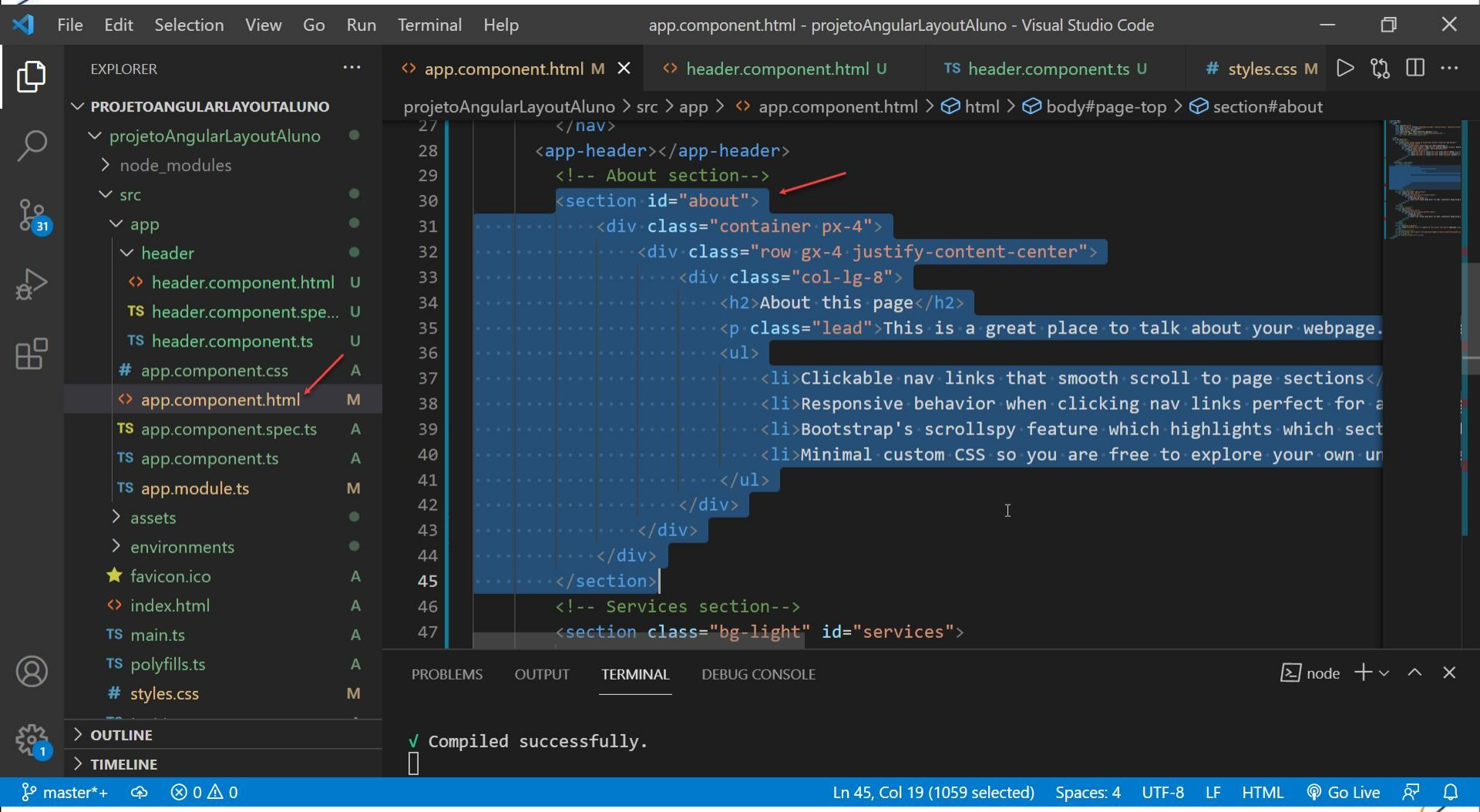
CREATE src/app/header/header.component.html (21 bytes)
CREATE src/app/header/header.component.spec.ts (626 bytes)
CREATE src/app/header/header.component.ts (275 bytes)
CREATE src/app/header/header.component.css (0 bytes)
UPDATE src/app/app.module.ts (396 bytes)
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno>
master*+
0 0
Ln 28, Col 19 Spaces: 4 UTF-8 LF HTML Go Live


Start Bootstrap
About
Services
Contact
Welcome to Scrolling Nav
A functional Bootstrap 5 boilerplate for one page scrolling websites
Start scrolling!
About this page
This is a great place to talk about your webpage. This template is purposefully unstyled so you can use it as a boilerplate or starting point for you own landing page designs! This template features:
Clickable nav links that smooth scroll to page sections
Responsive behavior when clicking nav links perfect for a one page website
Bootstrap's scrollspy feature which highlights which section of the page you're on in the navbar
Minimal custom CSS so you are free to explore your own unique design options


File Edit Selection View Go Run Terminal Help
app.component.html - projetoAngularLayoutAluno - Visual Studio Code
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node_modules
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app.component.spec.ts A
app.component.ts A
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favicon.ico A
index.html A
main.ts A
polyfills.ts A
styles.css M
OUTLINE
TIMELINE
app.component.html M
header.component.html U
header.component.ts U
styles.css M
projetoAngularLayoutAluno > src > app > app.component.html > html > body#page-top > section#about
</nav>
<app-header></app-header>
<!-- About section-->
<section id="about">

<h2>About this page</h2>
<p class="lead">This is a great place to talk about your webpage.

Clickable nav links that smooth scroll to page sections</
Responsive behavior when clicking nav links perfect for a
Bootstrap's scrollspy feature which highlights which sect
Minimal custom CSS so you are free to explore your own un

</section>
<!-- Services section-->
<section class="bg-light" id="services">
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
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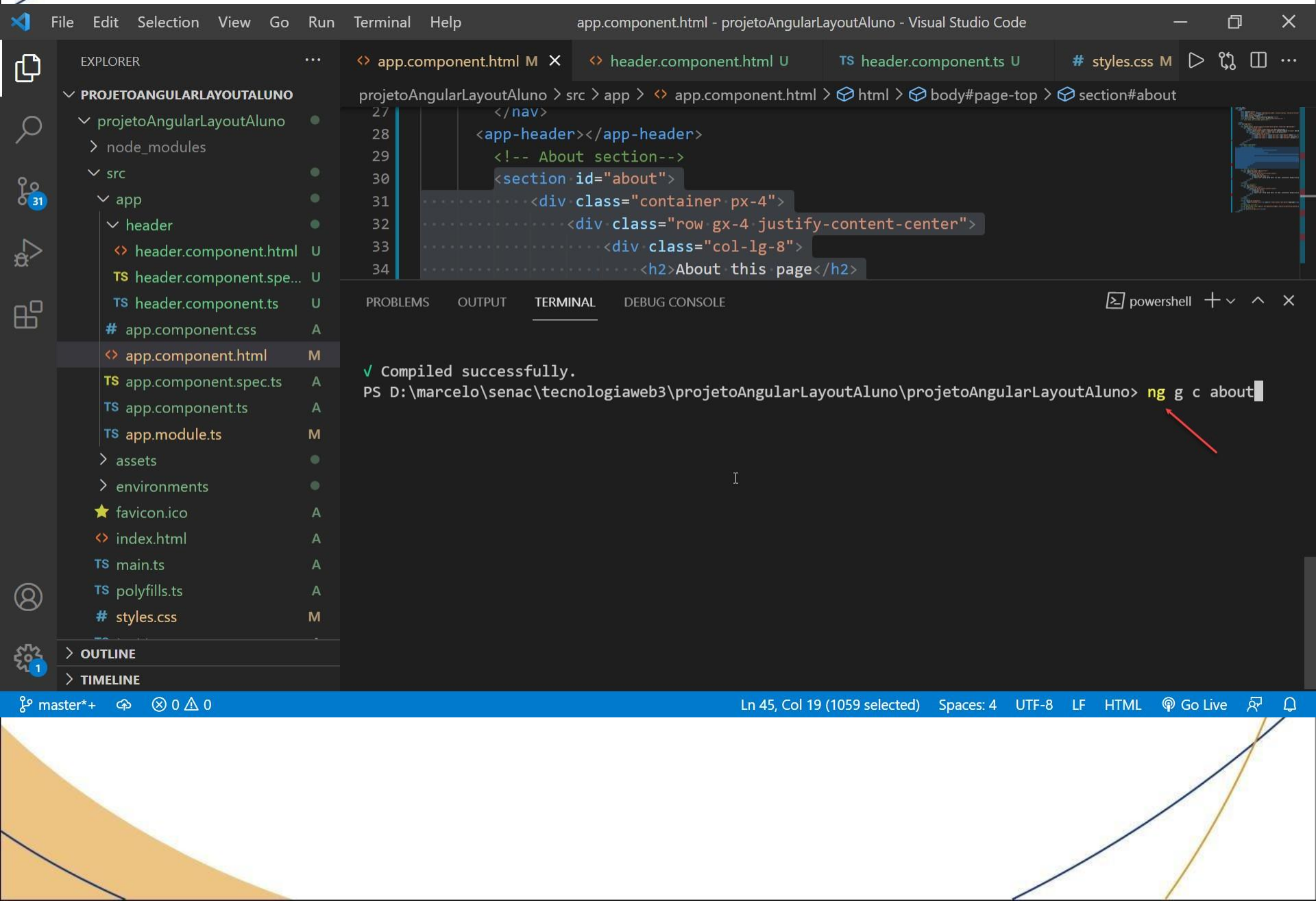
√ Compiled successfully.
master*+ 0 0
Ln 45, Col 19 (1059 selected) Spaces: 4 UTF-8 LF HTML Go Live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app.component.html - projetoAngularLayoutAluno - Visual Studio Code
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styles.css M
projetoAngularLayoutAluno > src > app > app.component.html > html > body#page-top > section#about
</nav>
<app-header></app-header>
<!-- About section-->
<section id="about">

<h2>About this page</h2>
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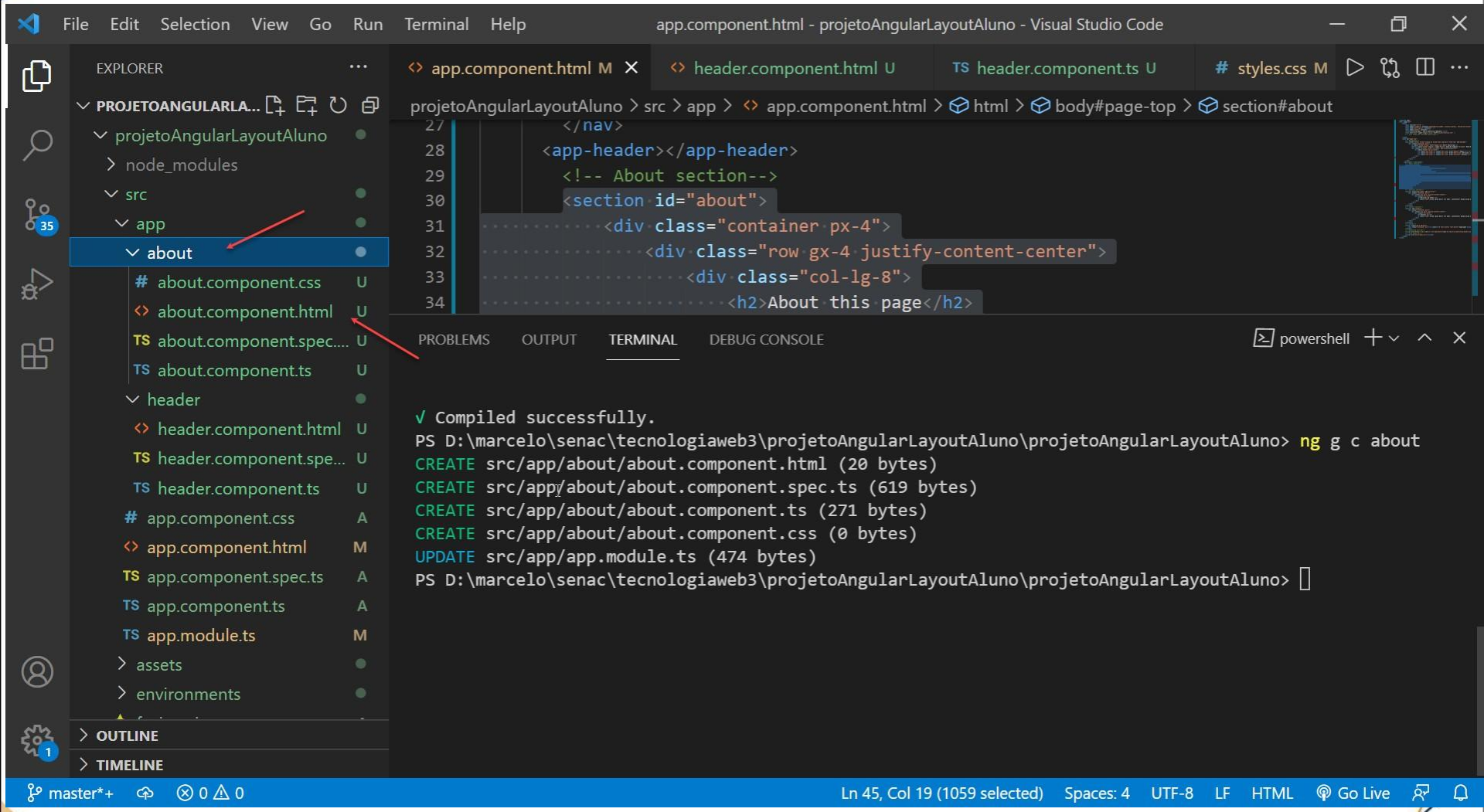
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app.component.html - projetoAngularLayoutAluno - Visual Studio Code
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header.component.ts U
styles.css M
projetoAngularLayoutAluno > src > app > app.component.html > html > body#page-top > section#about
27 </nav>
28 <app-header></app-header>
29 <!-- About section-->
30 <section id="about">
31
32
33
34 <h2>About this page</h2>
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
powershell
√ Compiled successfully.
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno> ng g c about
CREATE src/app/about/about.component.html (20 bytes)
CREATE src/app/about/about.component.spec.ts (619 bytes)
CREATE src/app/about/about.component.ts (271 bytes)
CREATE src/app/about/about.component.css (0 bytes)
UPDATE src/app/app.module.ts (474 bytes)
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno>
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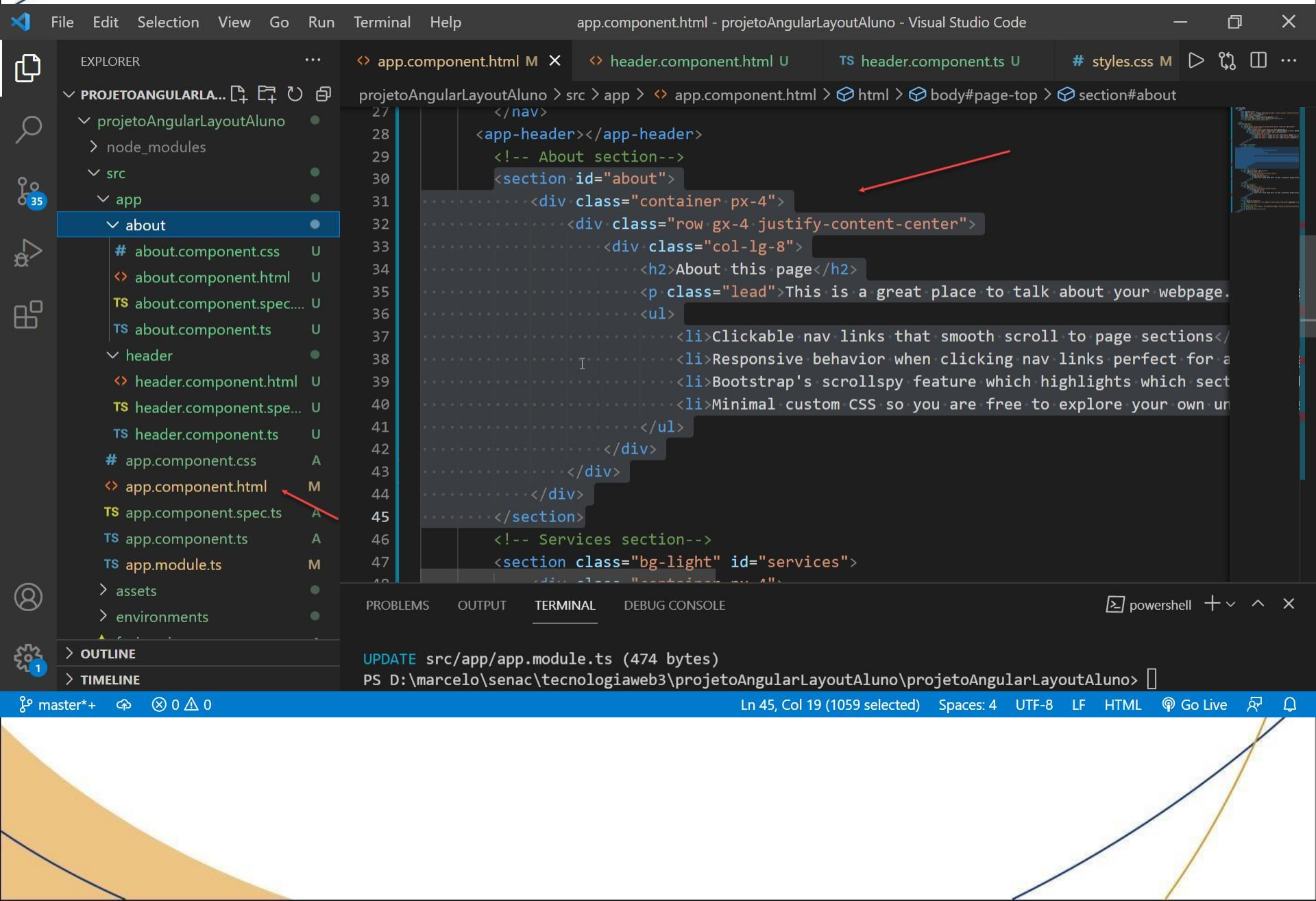
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app.component.html - projetoAngularLayoutAluno - Visual Studio Code
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projetoAngularLayoutAluno > src > app > app.component.html > html > body#page-top > section#about
</nav>
<app-header></app-header>
<!-- About section-->
<section id="about">

<h2>About this page</h2>
<p class="lead">This is a great place to talk about your webpage.

Clickable nav links that smooth scroll to page sections</
Responsive behavior when clicking nav links perfect for a
Bootstrap's scrollspy feature which highlights which sect
Minimal custom CSS so you are free to explore your own un

</section>
<!-- Services section-->
<section class="bg-light" id="services">
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
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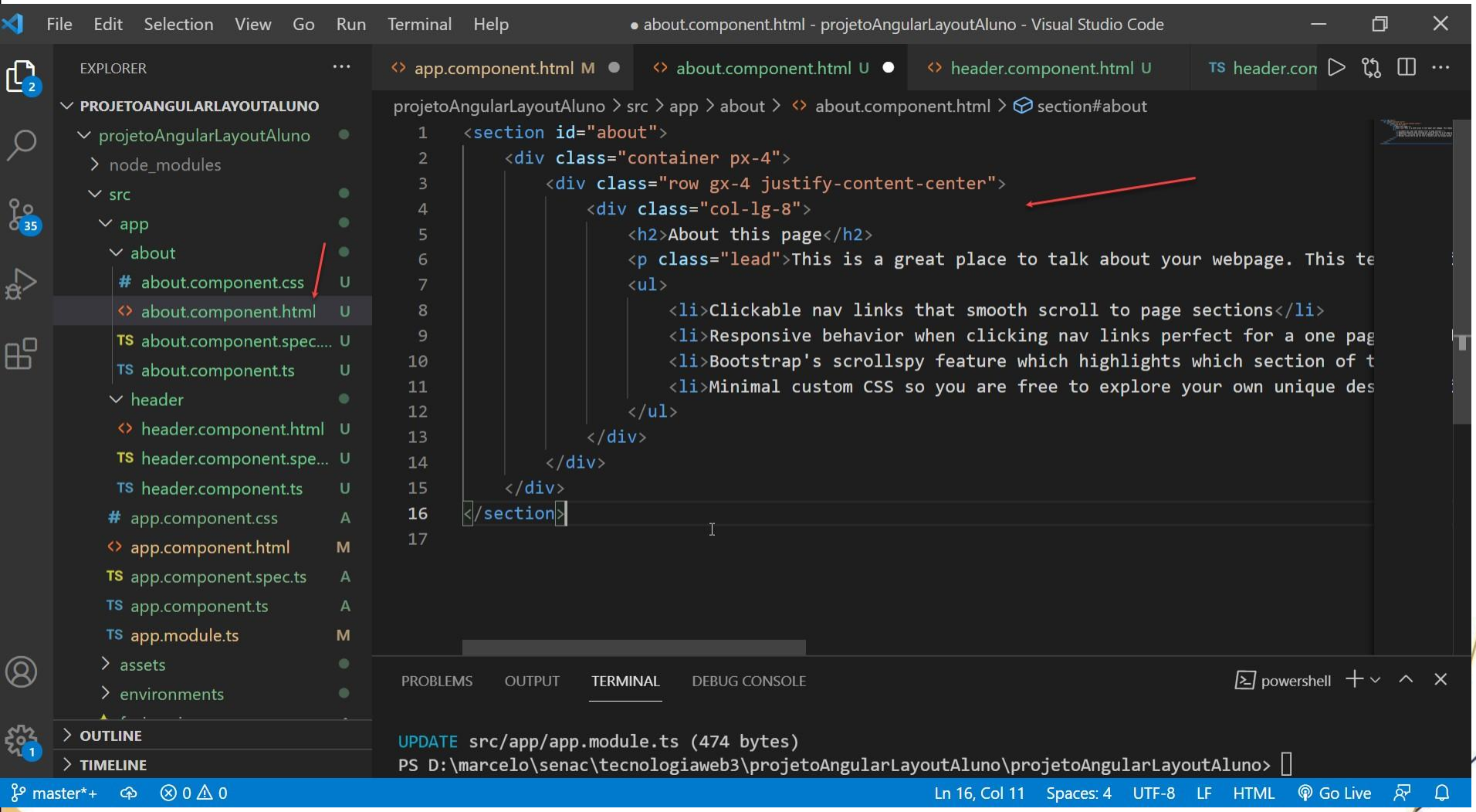
File Edit Selection View Go Run Terminal Help
● about.component.html - projetoAngularLayoutAluno - Visual Studio Code
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header.component.ts U
app.component.css A
app.component.html M
app.component.spec.ts A
app.component.ts A
app.module.ts M
assets
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OUTLINE
TIMELINE
1 <section id="about">
2
3
4
5 <h2>About this page</h2>
6 <p class="lead">This is a great place to talk about your webpage. This te
7
8 Clickable nav links that smooth scroll to page sections
9 Responsive behavior when clicking nav links perfect for a one pag
10 Bootstrap's scrollspy feature which highlights which section of t
11 Minimal custom CSS so you are free to explore your own unique des
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16 </section>
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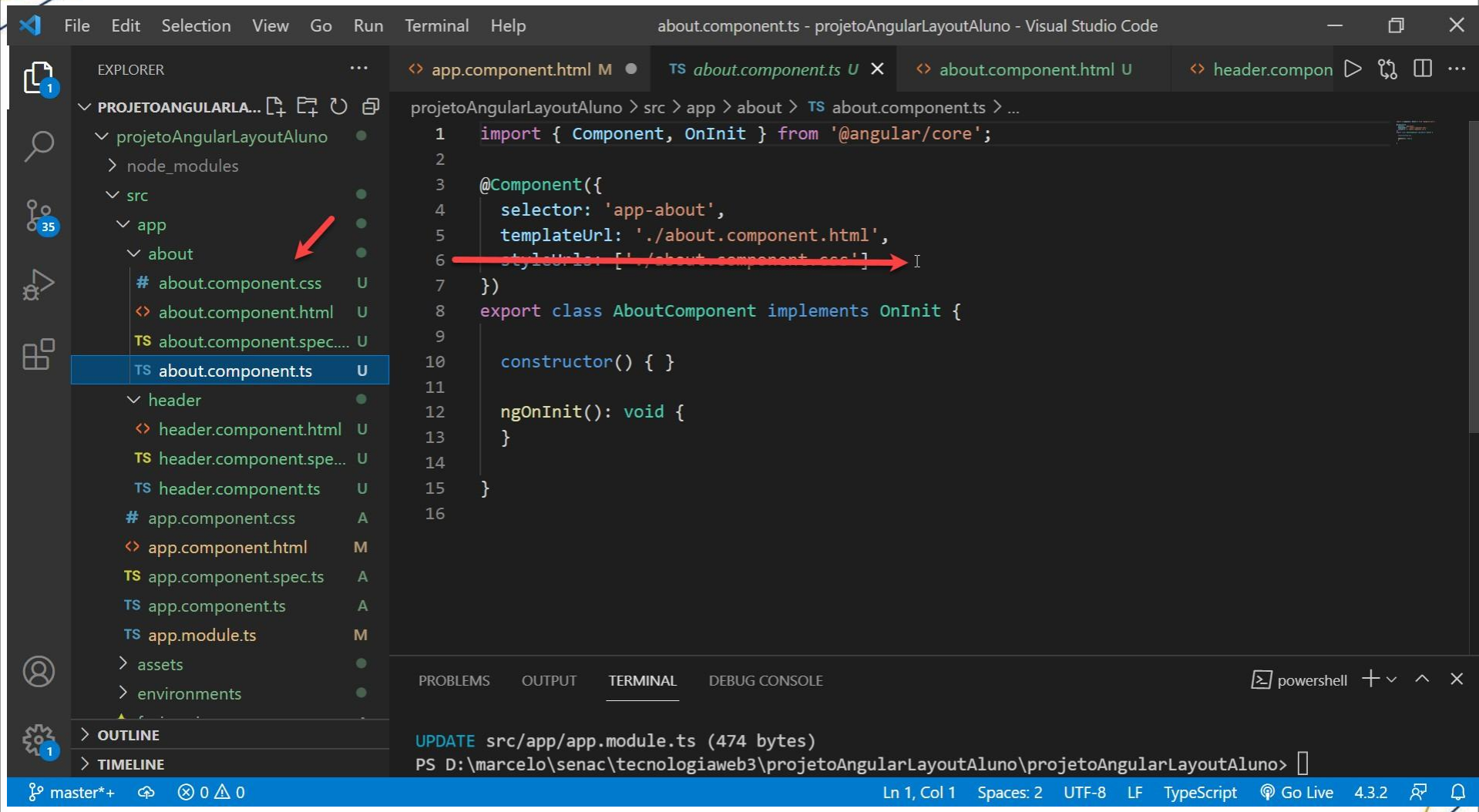
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about.component.ts - projetoAngularLayoutAluno - Visual Studio Code
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app.component.html M
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about.component.html U
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projetoAngularLayoutAluno > src > app > about > about.component.ts > ...
1 import { Component, OnInit } from '@angular/core';
2
3 @Component({
4 selector: 'app-about',
5 templateUrl: './about.component.html',
6 styleUrls: ['./about.component.css']
7 })
8 export class AboutComponent implements OnInit {
9
10 constructor() { }
11
12 ngOnInit(): void {
13 }
14
15 }
16
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
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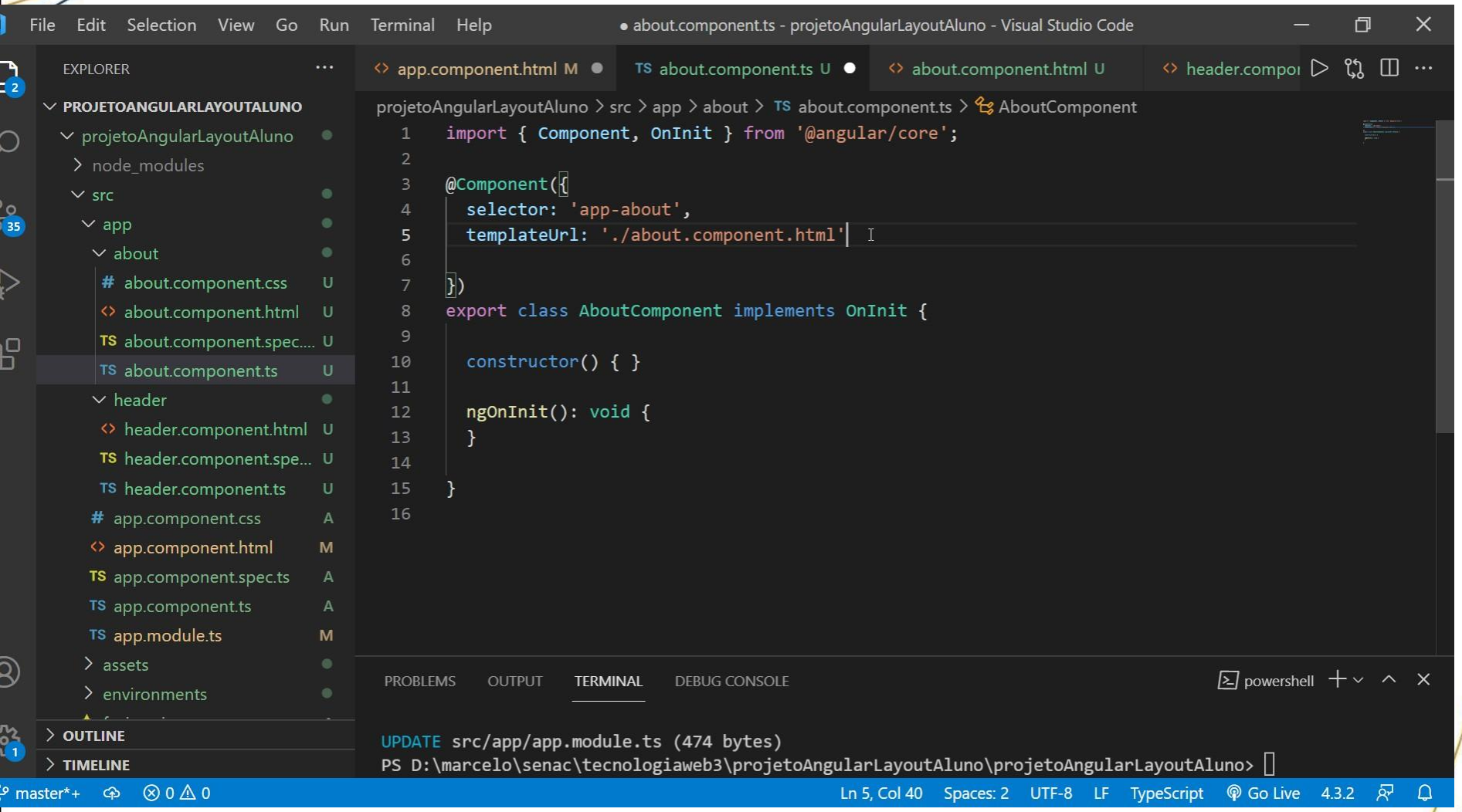
File Edit Selection View Go Run Terminal Help
● about.component.ts - projetoAngularLayoutAluno - Visual Studio Code
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projetoAngularLayoutAluno > src > app > about > about.component.ts > AboutComponent
1 import { Component, OnInit } from '@angular/core';
2
3 @Component({
4 selector: 'app-about',
5 templateUrl: './about.component.html'
6
7 })
8 export class AboutComponent implements OnInit {
9
10 constructor() { }
11
12 ngOnInit(): void {
13 }
14
15 }
16
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
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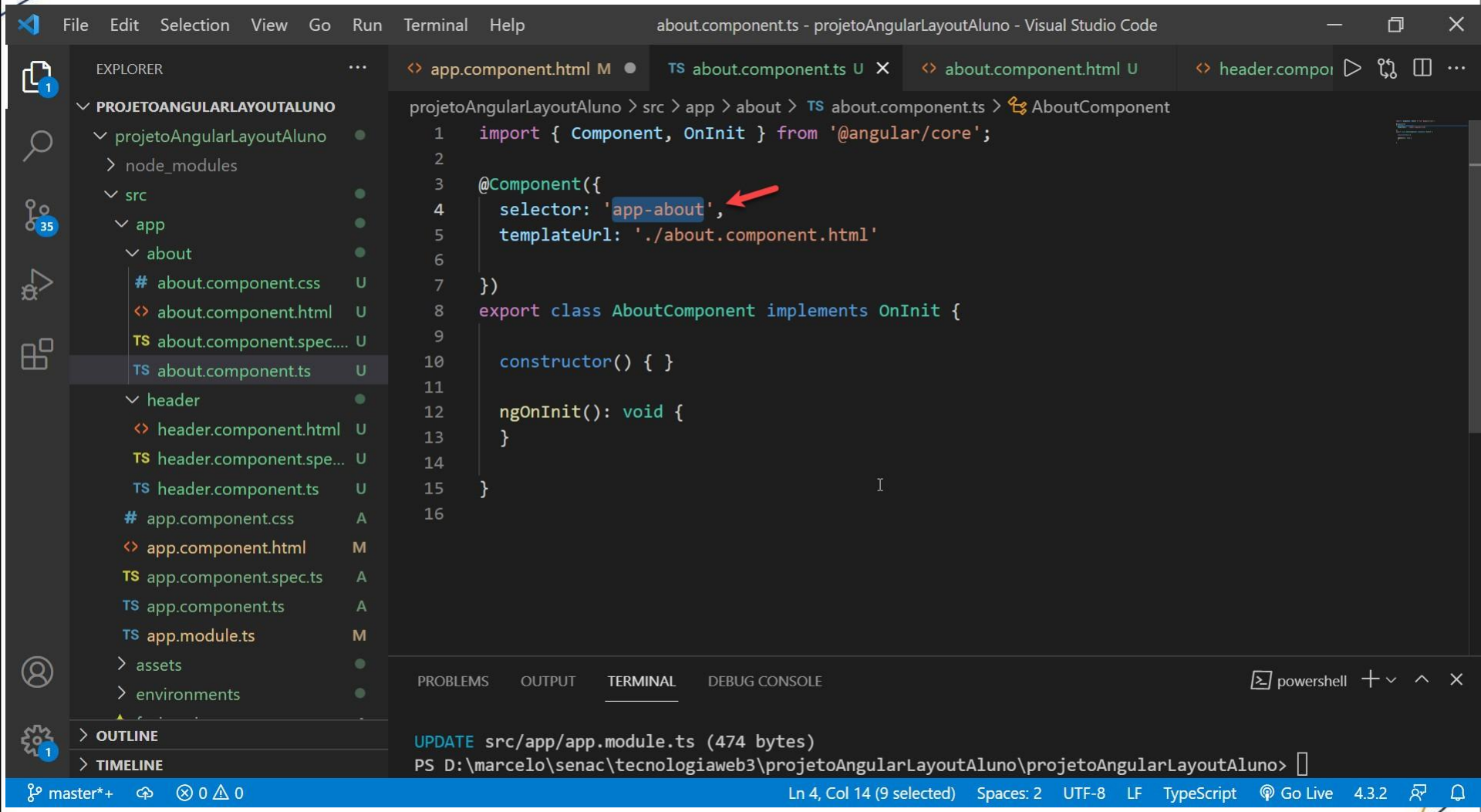
UPDATE src/app/app.module.ts (474 bytes)
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno>
master*+ 0 0 Ln 5, Col 40 Spaces: 2 UTF-8 LF TypeScript Go Live 4.3.2


File Edit Selection View Go Run Terminal Help
about.component.ts - projetoAngularLayoutAluno - Visual Studio Code
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1 import { Component, OnInit } from '@angular/core';
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3 @Component({
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5 templateUrl: './about.component.html'
6
7 })
8 export class AboutComponent implements OnInit {
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10 constructor() { }
11
12 ngOnInit(): void {
13 }
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15 }
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PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
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UPDATE src/app/app.module.ts (474 bytes)
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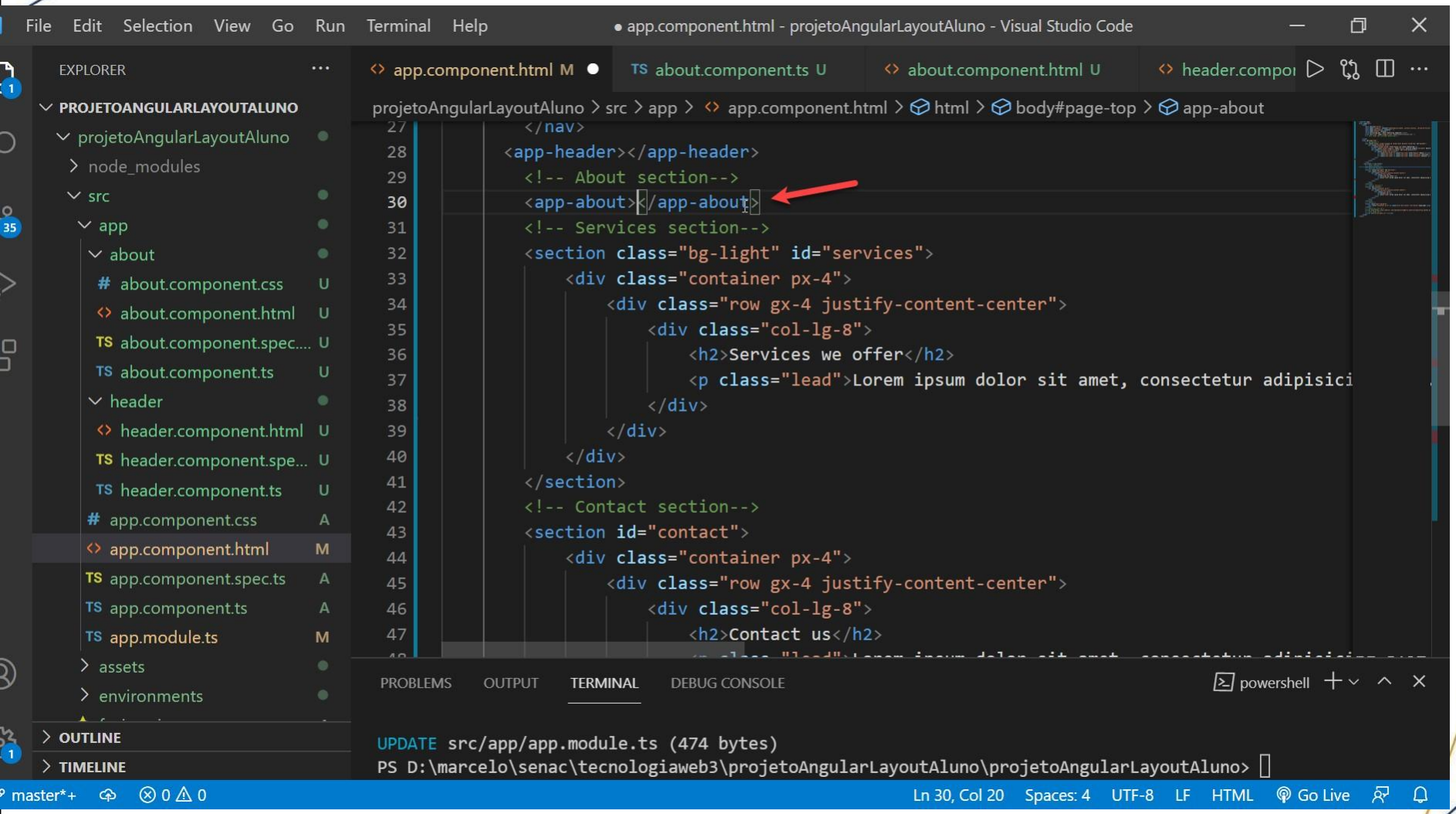
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• app.component.html - projetoAngularLayoutAluno - Visual Studio Code
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app.module.ts M
assets
environments
OUTLINE
TIMELINE
27 </nav>
28 <app-header></app-header>
29 <!-- About section-->
30 <app-about></app-about>
31 <!-- Services section-->
32 <section class="bg-light" id="services">
33
34
35
36 <h2>Services we offer</h2>
37 <p class="lead">Lorem ipsum dolor sit amet, consectetur adipisici
38
39
40
41 </section>
42 <!-- Contact section-->
43 <section id="contact">
44
45
46
47 <h2>Contact us</h2>
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
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UPDATE src/app/app.module.ts (474 bytes)
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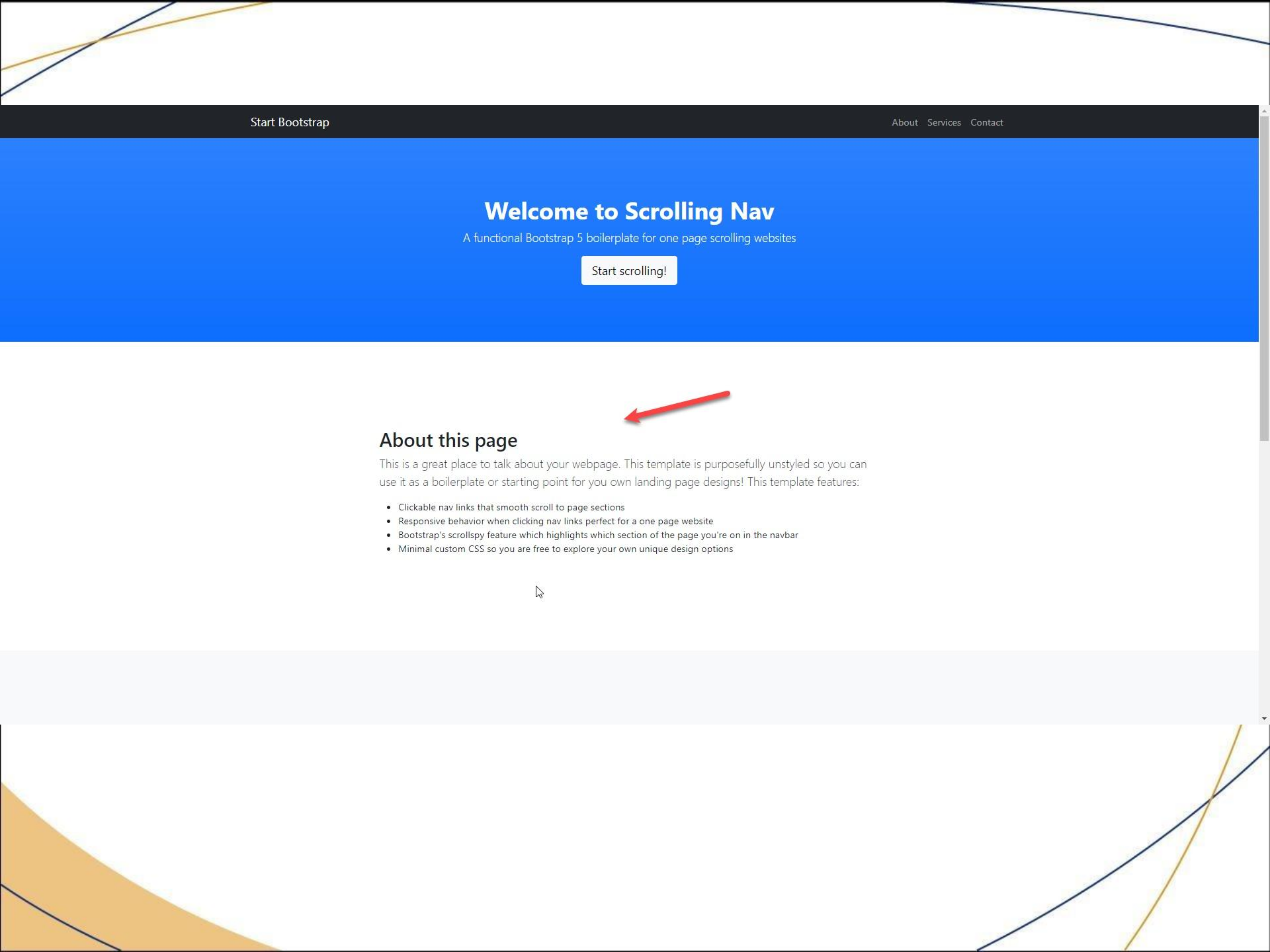
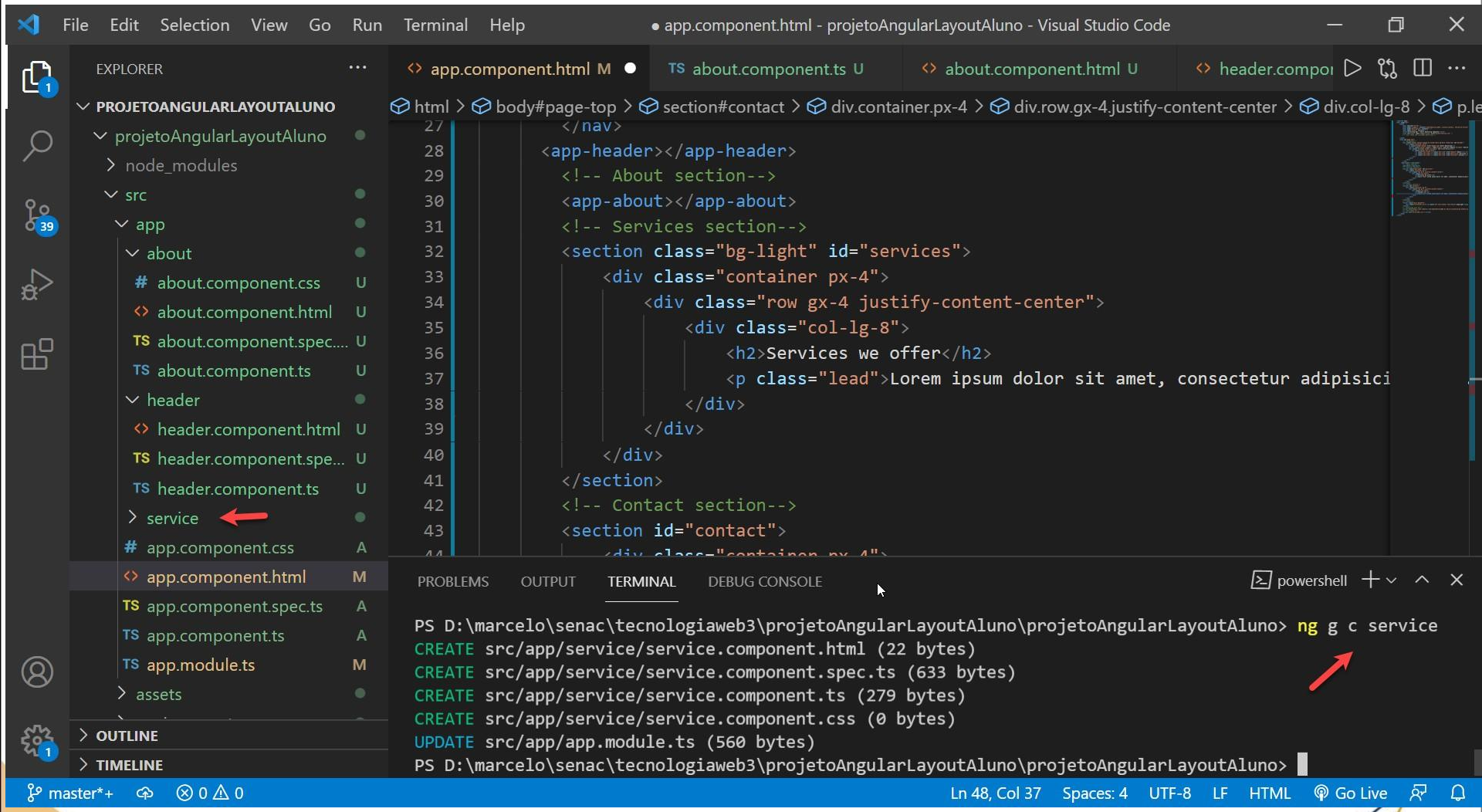

Start Bootstrap
About
Services
Contact
Welcome to Scrolling Nav
A functional Bootstrap 5 boilerplate for one page scrolling websites
Start scrolling!
About this page
This is a great place to talk about your webpage. This template is purposefully unstyled so you can use it as a boilerplate or starting point for you own landing page designs! This template features:
Clickable nav links that smooth scroll to page sections
Responsive behavior when clicking nav links perfect for a one page website
Bootstrap's scrollspy feature which highlights which section of the page you're on in the navbar
Minimal custom CSS so you are free to explore your own unique design options

Faça a mesma coisa para service e contact


File Edit Selection View Go Run Terminal Help
• app.component.html - projetoAngularLayoutAluno - Visual Studio Code
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OUTLINE
TIMELINE
app.component.html M
about.component.ts U
about.component.html U
header.compor
html > body#page-top > section#contact > div.container.px-4 > div.row.gx-4.justify-content-center > div.col-lg-8 > p.le
</nav>
<app-header></app-header>
<!-- About section-->
<app-about></app-about>
<!-- Services section-->
<section class="bg-light" id="services">

<h2>Services we offer</h2>
<p class="lead">Lorem ipsum dolor sit amet, consectetur adipisici

</section>
<!-- Contact section-->
<section id="contact">
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
powershell
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno> ng g c service
CREATE src/app/service/service.component.html (22 bytes)
CREATE src/app/service/service.component.spec.ts (633 bytes)
CREATE src/app/service/service.component.ts (279 bytes)
CREATE src/app/service/service.component.css (0 bytes)
UPDATE src/app/app.module.ts (560 bytes)
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno>
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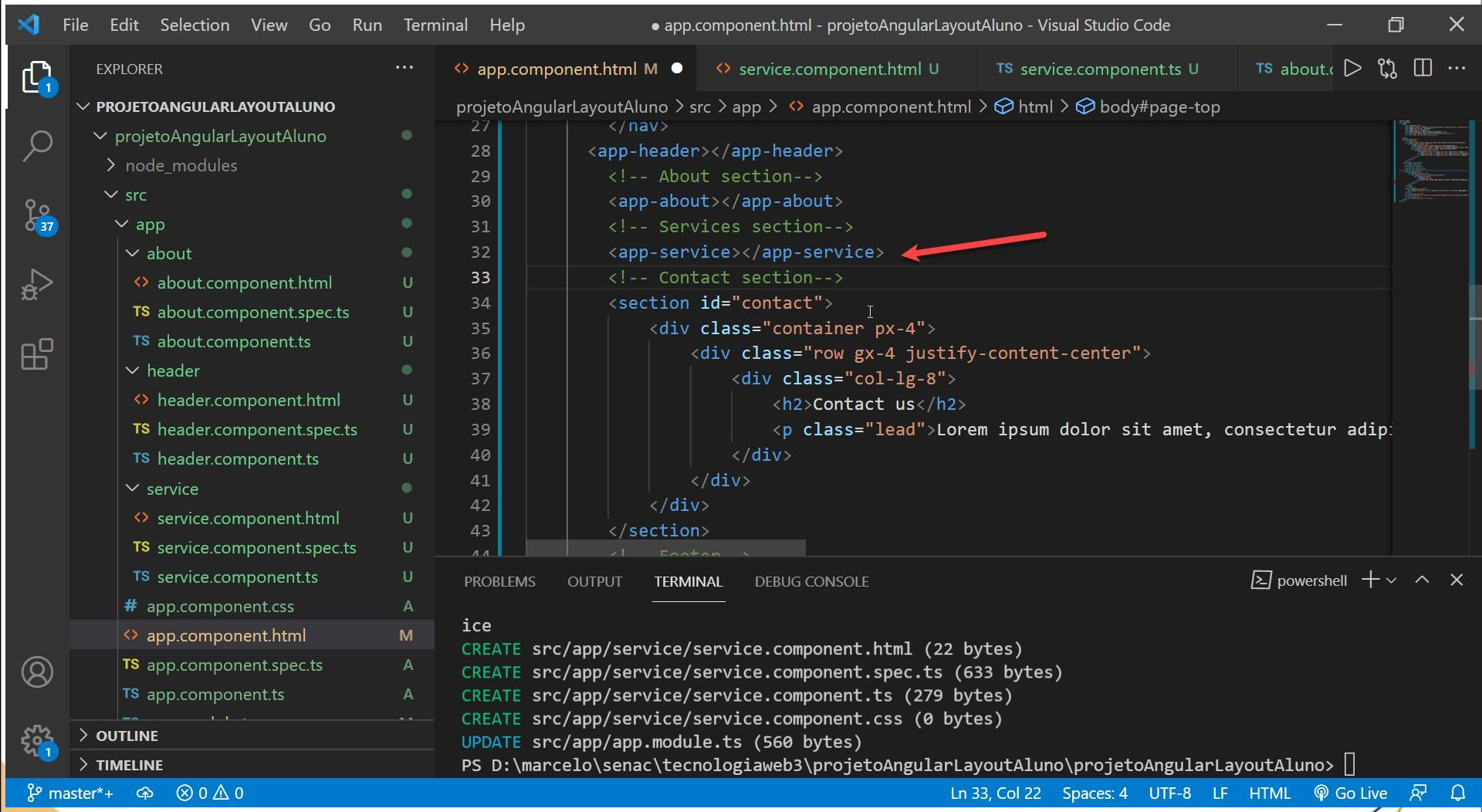
File Edit Selection View Go Run Terminal Help
• app.component.html - projetoAngularLayoutAluno - Visual Studio Code
EXPLORER
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app.component.html M
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projetoAngularLayoutAluno > src > app > app.component.html > html > body#page-top
</nav>
<app-header></app-header>
<!-- About section-->
<app-about></app-about>
<!-- Services section-->
<app-service></app-service>
<!-- Contact section-->
<section id="contact">

<h2>Contact us</h2>
<p class="lead">Lorem ipsum dolor sit amet, consectetur adip

</section>
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
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CREATE src/app/service/service.component.html (22 bytes)
CREATE src/app/service/service.component.spec.ts (633 bytes)
CREATE src/app/service/service.component.ts (279 bytes)
CREATE src/app/service/service.component.css (0 bytes)
UPDATE src/app/app.module.ts (560 bytes)
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno>
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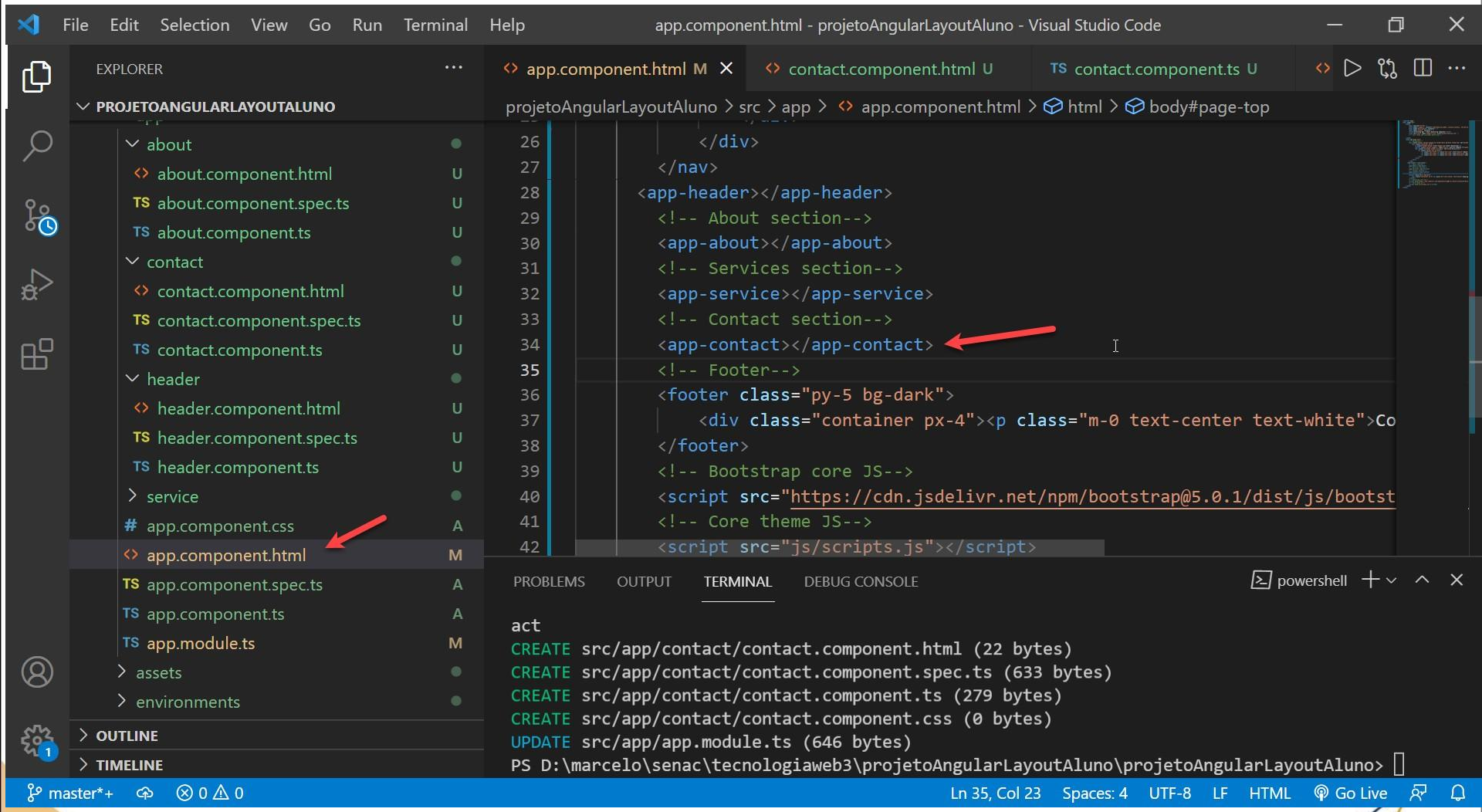
File Edit Selection View Go Run Terminal Help
app.component.html - projetoAngularLayoutAluno - Visual Studio Code
EXPLORER
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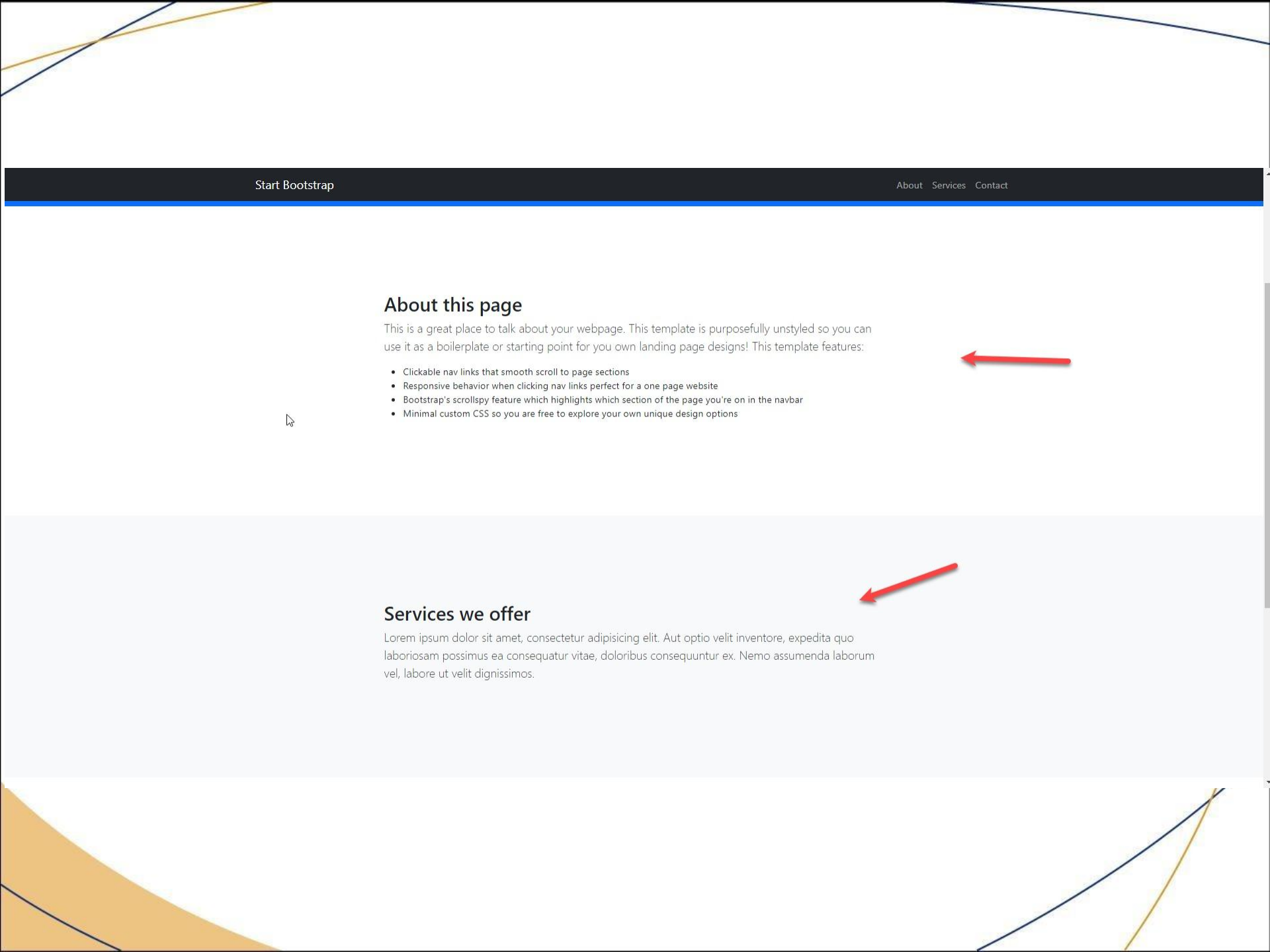
app.component.html M
contact.component.html U
contact.component.ts U
projetoAngularLayoutAluno > src > app > app.component.html > html > body#page-top
26
27 </nav>
28 <app-header></app-header>
29 <!-- About section-->
30 <app-about></app-about>
31 <!-- Services section-->
32 <app-service></app-service>
33 <!-- Contact section-->
34 <app-contact></app-contact>
35 <!-- Footer-->
36 <footer class="py-5 bg-dark">
37 <p class="m-0 text-center text-white">Co
38 </footer>
39 <!-- Bootstrap core JS-->
40 <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.1/dist/js/bootst
41 <!-- Core theme JS-->
42 <script src="js/scripts.js"></script>
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
powershell
act
CREATE src/app/contact/contact.component.html (22 bytes)
CREATE src/app/contact/contact.component.spec.ts (633 bytes)
CREATE src/app/contact/contact.component.ts (279 bytes)
CREATE src/app/contact/contact.component.css (0 bytes)
UPDATE src/app/app.module.ts (646 bytes)
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno>
master*+ 0 0
Ln 35, Col 23 Spaces: 4 UTF-8 LF HTML Go Live


Start Bootstrap
About
Services
Contact
About this page
This is a great place to talk about your webpage. This template is purposefully unstyled so you can use it as a boilerplate or starting point for you own landing page designs! This template features:
Clickable nav links that smooth scroll to page sections
Responsive behavior when clicking nav links perfect for a one page website
Bootstrap's scrollspy feature which highlights which section of the page you're on in the navbar
Minimal custom CSS so you are free to explore your own unique design options
Services we offer
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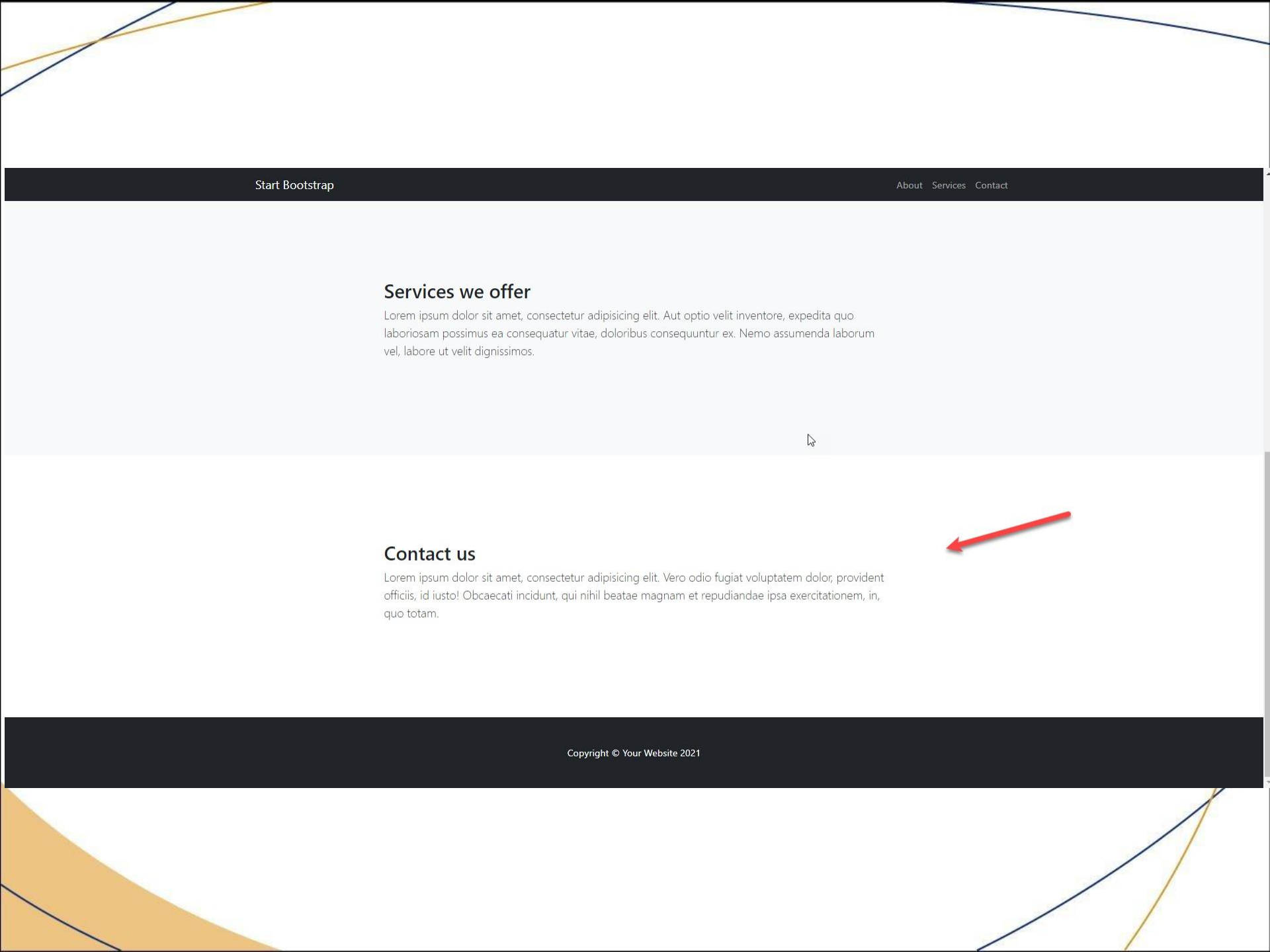
Start Bootstrap
About
Services
Contact
Services we offer
Lorem ipsum dolor sit amet, consectetur adipisicing elit. Aut optio velit inventore, expedita quo laboriosam possimus ea consequatur vitae, doloribus consequuntur ex. Nemo assumenda laborum vel, labore ut velit dignissimos.
Contact us
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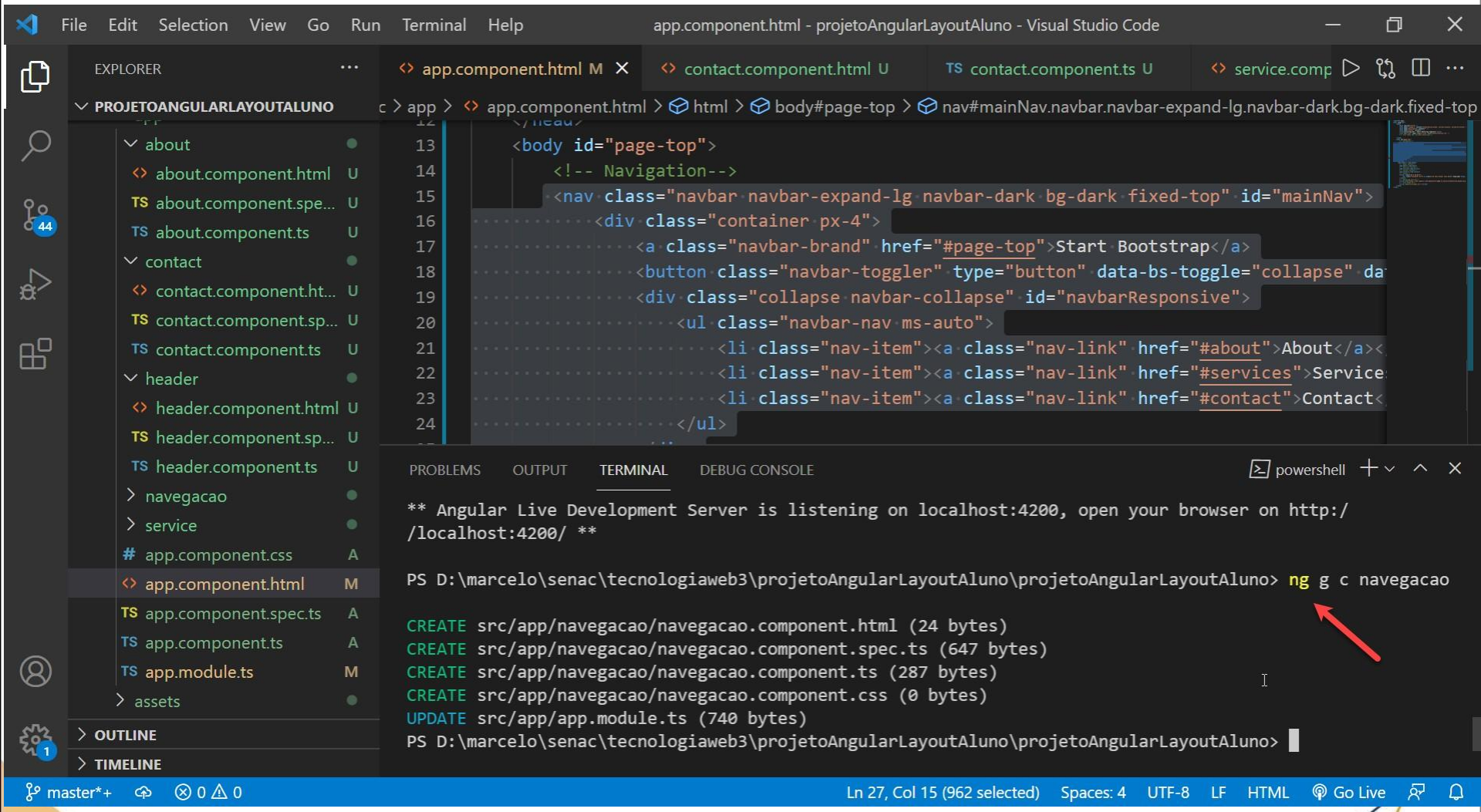
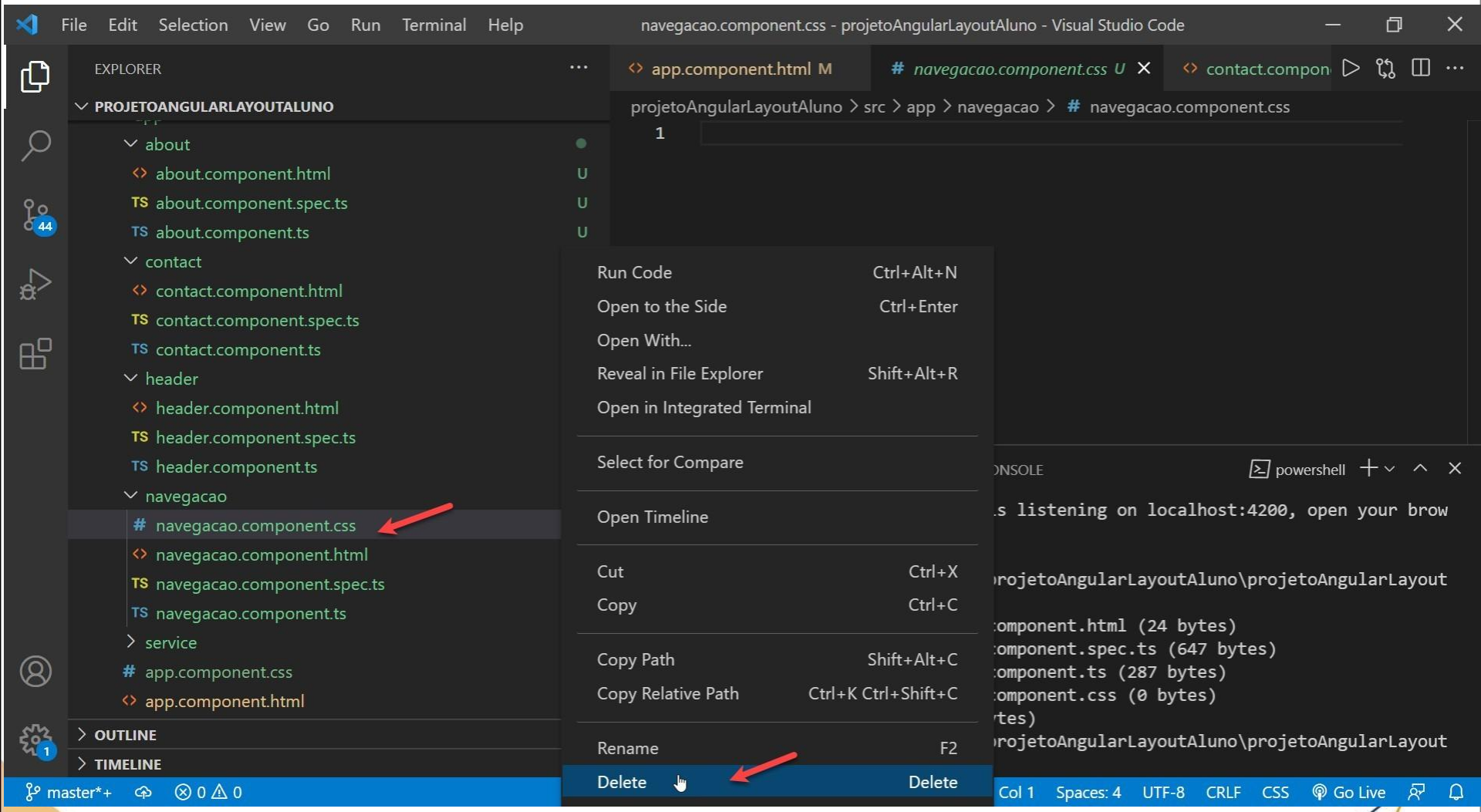
Copyright © Your Website 2021

Navegação


File Edit Selection View Go Run Terminal Help
app.component.html - projetoAngularLayoutAluno - Visual Studio Code
EXPLORER
PROJETOANGULARLAYOUTALUNO
about
about.component.html U
about.component.spe... U
about.component.ts U
contact
contact.component.ht... U
contact.component.sp... U
contact.component.ts U
header
header.component.html U
header.component.sp... U
header.component.ts U
navegacao
service
app.component.css A
app.component.html M
app.component.spec.ts A
app.component.ts A
app.module.ts M
assets
OUTLINE
TIMELINE
app.component.html M
contact.component.html U
contact.component.ts U
service.comp
c > app > app.component.html > html > body#page-top > nav#mainNav.navbar.navbar-expand-lg.navbar-dark.bg-dark.fixed-top
13 <body id="page-top">
14 <!-- Navigation-->
15 <nav class="navbar navbar-expand-lg navbar-dark bg-dark fixed-top" id="mainNav">
16
17 Start Bootstrap
18 <button class="navbar-toggler" type="button" data-bs-toggle="collapse" da
19
20 <ul class="navbar-nav ms-auto">
21 <li class="nav-item">About<
22 <li class="nav-item"><a class="nav-link" href="#services">Service
23 <li class="nav-item"><a class="nav-link" href="#contact">Contact<
24
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
powershell
** Angular Live Development Server is listening on localhost:4200, open your browser on http:/
/localhost:4200/ **
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno> ng g c navegacao
CREATE src/app/navegacao/navegacao.component.html (24 bytes)
CREATE src/app/navegacao/navegacao.component.spec.ts (647 bytes)
CREATE src/app/navegacao/navegacao.component.ts (287 bytes)
CREATE src/app/navegacao/navegacao.component.css (0 bytes)
UPDATE src/app/app.module.ts (740 bytes)
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno>
master*+ 0 0 Ln 27, Col 15 (962 selected) Spaces: 4 UTF-8 LF HTML Go Live


File Edit Selection View Go Run Terminal Help
navegacao.component.css - projetoAngularLayoutAluno - Visual Studio Code
EXPLORER
PROJETOANGULARLAYOUTALUNO
about
about.component.html U
about.component.spec.ts U
about.component.ts U
contact
contact.component.html
contact.component.spec.ts
contact.component.ts
header
header.component.html
header.component.spec.ts
header.component.ts
navegacao
navegacao.component.css
navegacao.component.html
navegacao.component.spec.ts
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service
app.component.css
app.component.html
OUTLINE
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app.component.html M
navegacao.component.css U
contact.compon
projetoAngularLayoutAluno > src > app > navegacao > navegacao.component.css
1
Run Code Ctrl+Alt+N
Open to the Side Ctrl+Enter
Open With...
Reveal in File Explorer Shift+Alt+R
Open in Integrated Terminal
Select for Compare
Open Timeline
Cut Ctrl+X
Copy Ctrl+C
Copy Path Shift+Alt+C
Copy Relative Path Ctrl+K Ctrl+Shift+C
Rename F2
Delete Delete
powershell
s listening on localhost:4200, open your brow
rojetoAngularLayoutAluno\projetoAngularLayout
component.html (24 bytes)
component.spec.ts (647 bytes)
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component.css (0 bytes)
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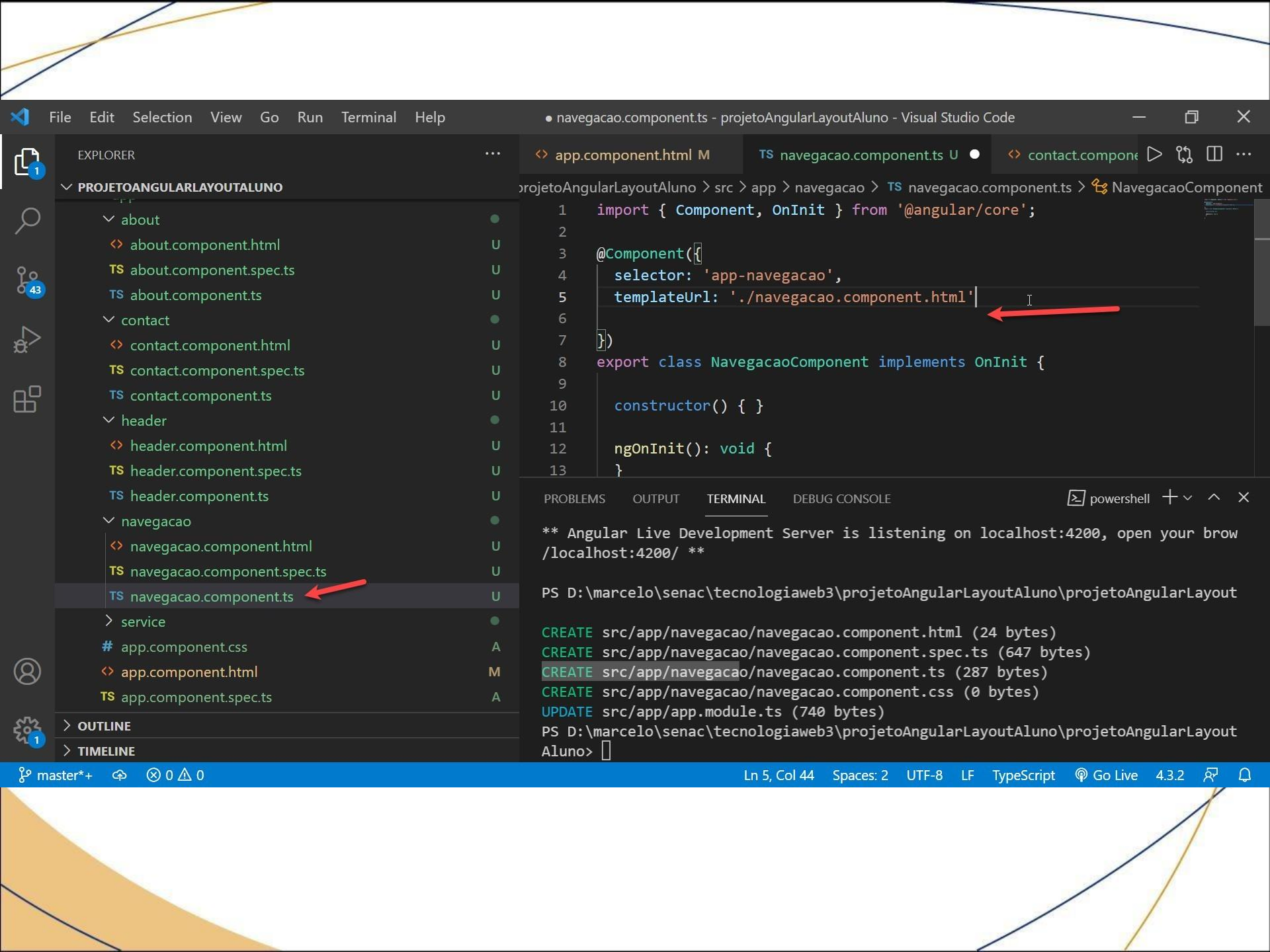
master*+
Col 1 Spaces: 4 UTF-8 CRLF CSS Go Live


File Edit Selection View Go Run Terminal Help
• navegacao.component.ts - projetoAngularLayoutAluno - Visual Studio Code
EXPLORER
PROJETOANGULARLAYOUTALUNO
about
about.component.html U
about.component.spec.ts U
about.component.ts U
contact
contact.component.html U
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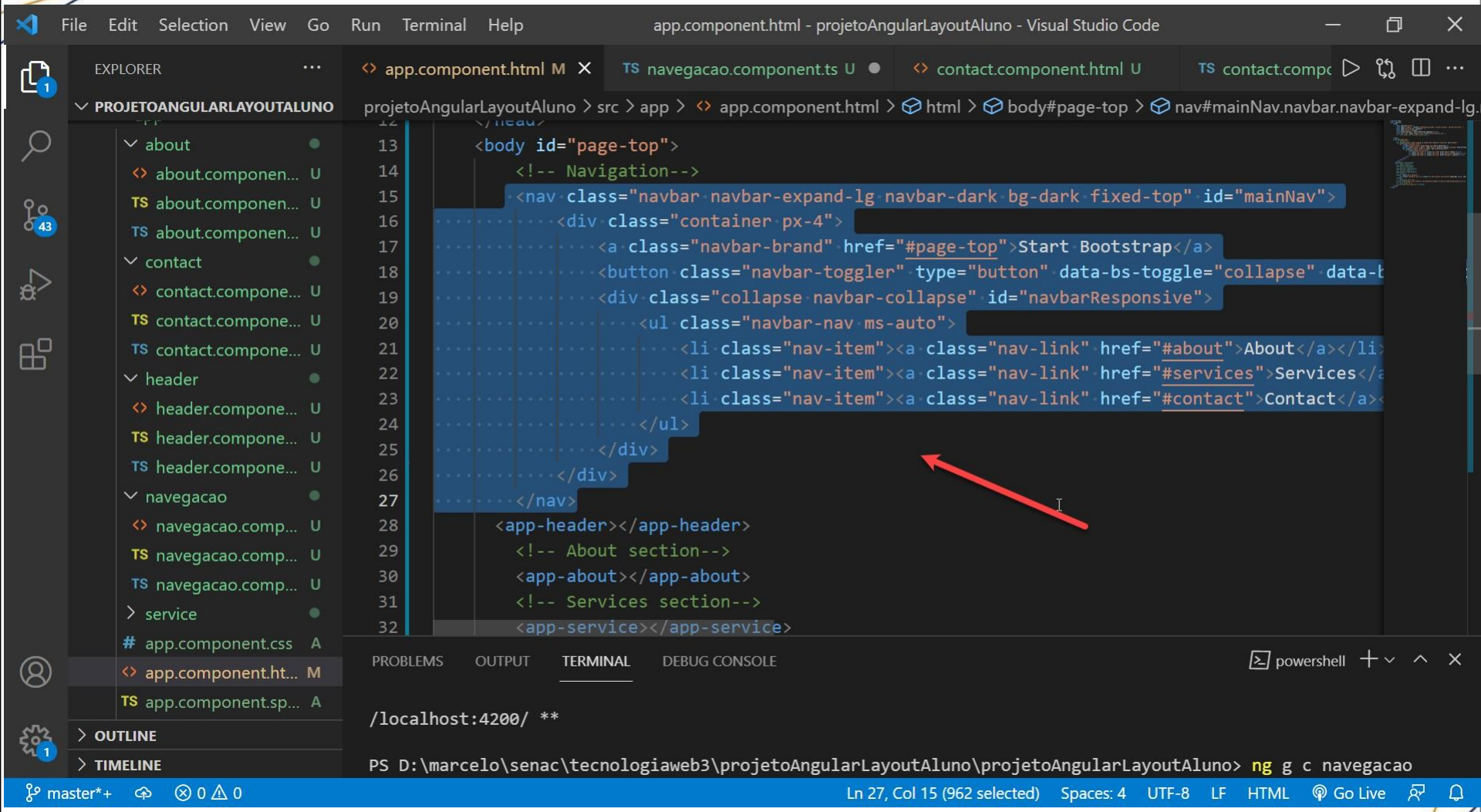
navegacao.component.ts U
service
app.component.css A
app.component.html M
app.component.spec.ts A
OUTLINE
TIMELINE
app.component.html M
navegacao.component.ts U
contact.compone
projetoAngularLayoutAluno > src > app > navegacao > navegacao.component.ts > NavegacaoComponent
1 import { Component, OnInit } from '@angular/core';
2
3 @Component({
4 selector: 'app-navegacao',
5 templateUrl: './navegacao.component.html'
6
7 })
8 export class NavegacaoComponent implements OnInit {
9
10 constructor() { }
11
12 ngOnInit(): void {
13 }
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
powershell
** Angular Live Development Server is listening on localhost:4200, open your brow
/localhost:4200/ **
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayout
CREATE src/app/navegacao/navegacao.component.html (24 bytes)
CREATE src/app/navegacao/navegacao.component.spec.ts (647 bytes)
CREATE src/app/navegacao/navegacao.component.ts (287 bytes)
CREATE src/app/navegacao/navegacao.component.css (0 bytes)
UPDATE src/app/app.module.ts (740 bytes)
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayout
Aluno>
master*+ 0 0 Ln 5, Col 44 Spaces: 2 UTF-8 LF TypeScript Go Live 4.3.2


File Edit Selection View Go Run Terminal Help
app.component.html - projetoAngularLayoutAluno - Visual Studio Code
EXPLORER
PROJETOANGULARLAYOUTALUNO
about
about.componen... U
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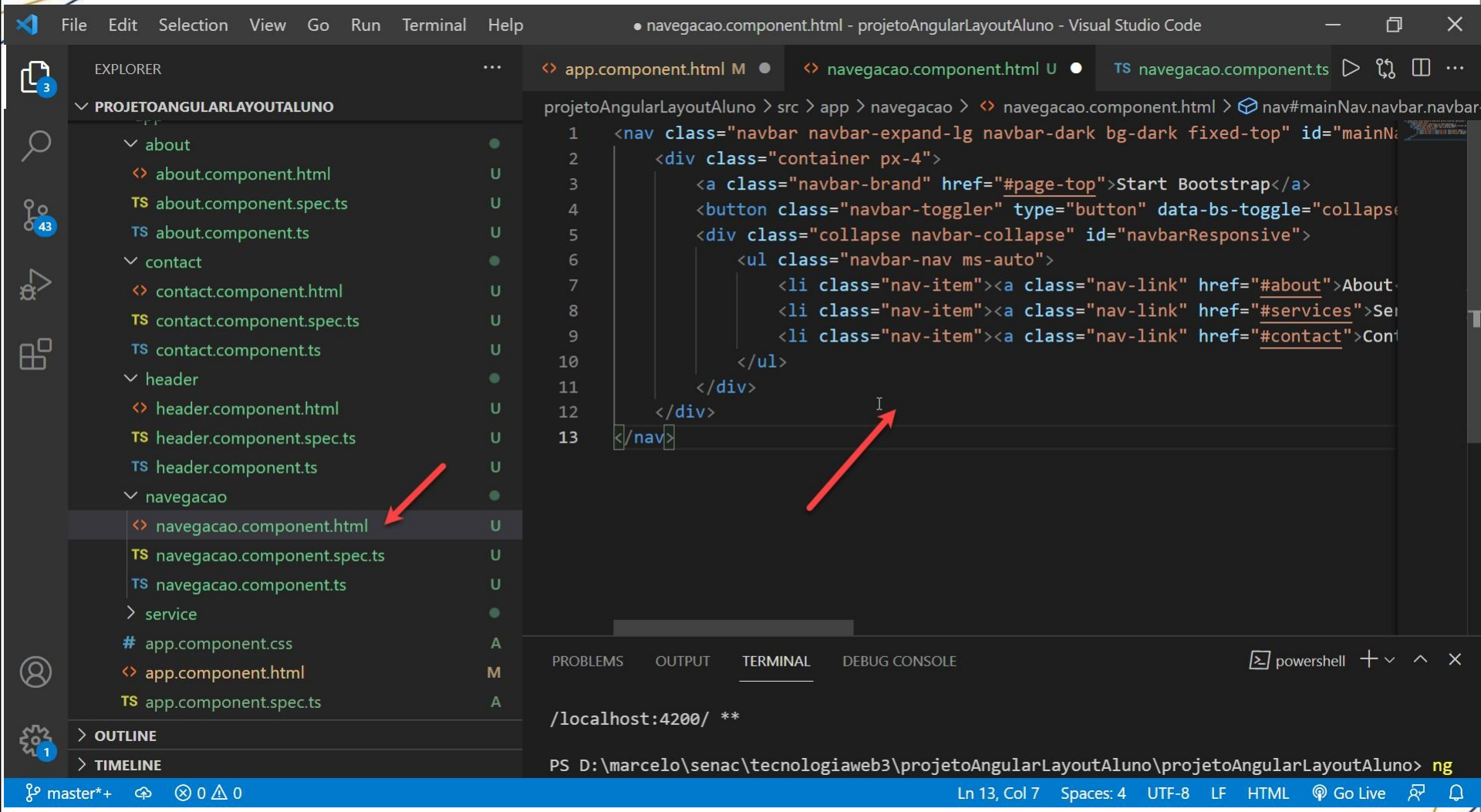
navegacao.comp... U
navegacao.comp... U
service
app.component.css A
app.component.ht... M
app.component.sp... A
OUTLINE
TIMELINE
app.component.html M
navegacao.component.ts U
contact.component.html U
projetoAngularLayoutAluno > src > app > app.component.html > html > body#page-top > nav#mainNav.navbar.navbar-expand-lg
13 <body id="page-top">
14 <!-- Navigation-->
15 <nav class="navbar navbar-expand-lg navbar-dark bg-dark fixed-top" id="mainNav">
16
17 Start Bootstrap
18 <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-b
19
20 <ul class="navbar-nav ms-auto">
21 <li class="nav-item">About
22 <li class="nav-item"><a class="nav-link" href="#services">Services</a
23 <li class="nav-item">Contact
24
25
26
27 </nav>
28 <app-header></app-header>
29 <!-- About section-->
30 <app-about></app-about>
31 <!-- Services section-->
32 <app-service></app-service>
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
powershell
/localhost:4200/ **
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno> ng g c navegacao
master*+
Ln 27, Col 15 (962 selected) Spaces: 4 UTF-8 LF HTML Go Live


File Edit Selection View Go Run Terminal Help
• navegacao.component.html - projetoAngularLayoutAluno - Visual Studio Code
EXPLORER
PROJETOANGULARLAYOUTALUNO
about
about.component.html U
about.component.spec.ts U
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contact
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header
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header.component.ts U
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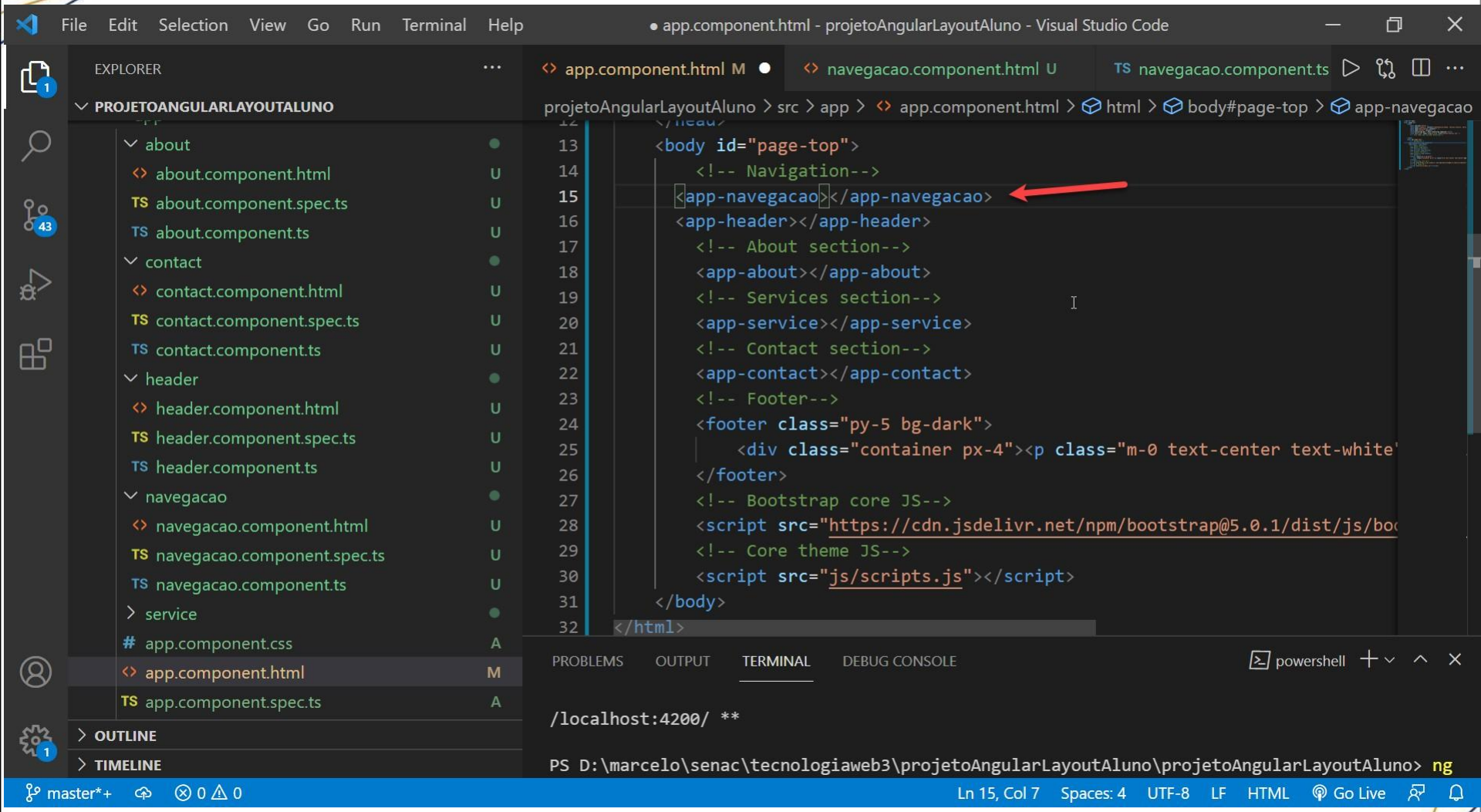
navegacao.component.spec.ts U
navegacao.component.ts U
service
app.component.css A
app.component.html M
app.component.spec.ts A
OUTLINE
TIMELINE
app.component.html M
navegacao.component.html U
navegacao.component.ts
projetoAngularLayoutAluno > src > app > navegacao > navegacao.component.html > nav#mainNav.navbar.navbar-
1 <nav class="navbar navbar-expand-lg navbar-dark bg-dark fixed-top" id="mainNa
2
3 Start Bootstrap
4 <button class="navbar-toggler" type="button" data-bs-toggle="collapse
5
6 <ul class="navbar-nav ms-auto">
7 <li class="nav-item"><a class="nav-link" href="#about">About
8 <li class="nav-item"><a class="nav-link" href="#services">Ser
9 <li class="nav-item"><a class="nav-link" href="#contact">Cont
10
11
12
13 </nav>
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
powershell
/localhost:4200/ **
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno> ng
master*+
0 0
Ln 13, Col 7 Spaces: 4 UTF-8 LF HTML Go Live


File Edit Selection View Go Run Terminal Help
• app.component.html - projetoAngularLayoutAluno - Visual Studio Code
EXPLORER
PROJETOANGULARLAYOUTALUNO
about
about.component.html U
about.component.spec.ts U
about.component.ts U
contact
contact.component.html U
contact.component.spec.ts U
contact.component.ts U
header
header.component.html U
header.component.spec.ts U
header.component.ts U
navegacao
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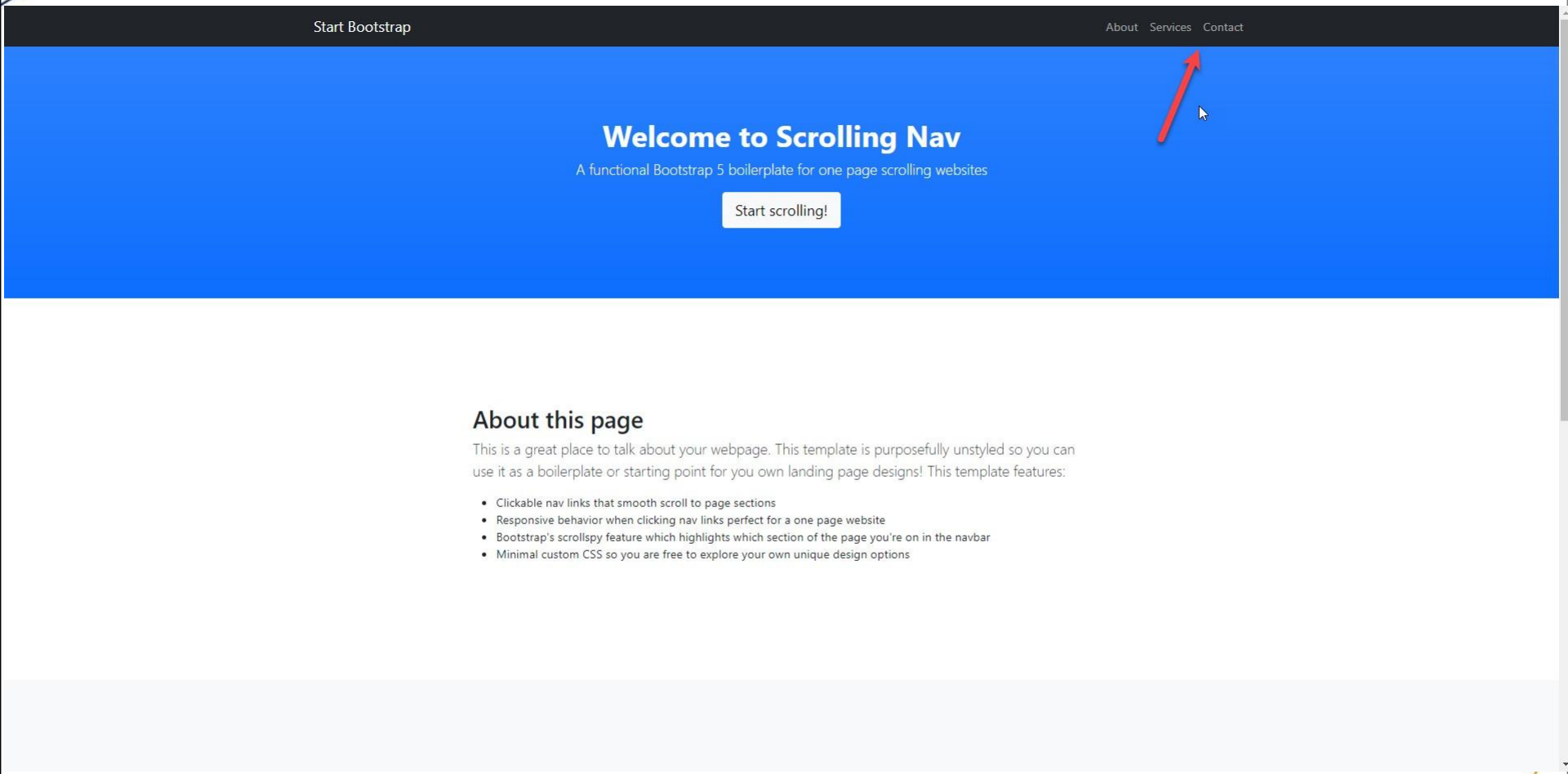
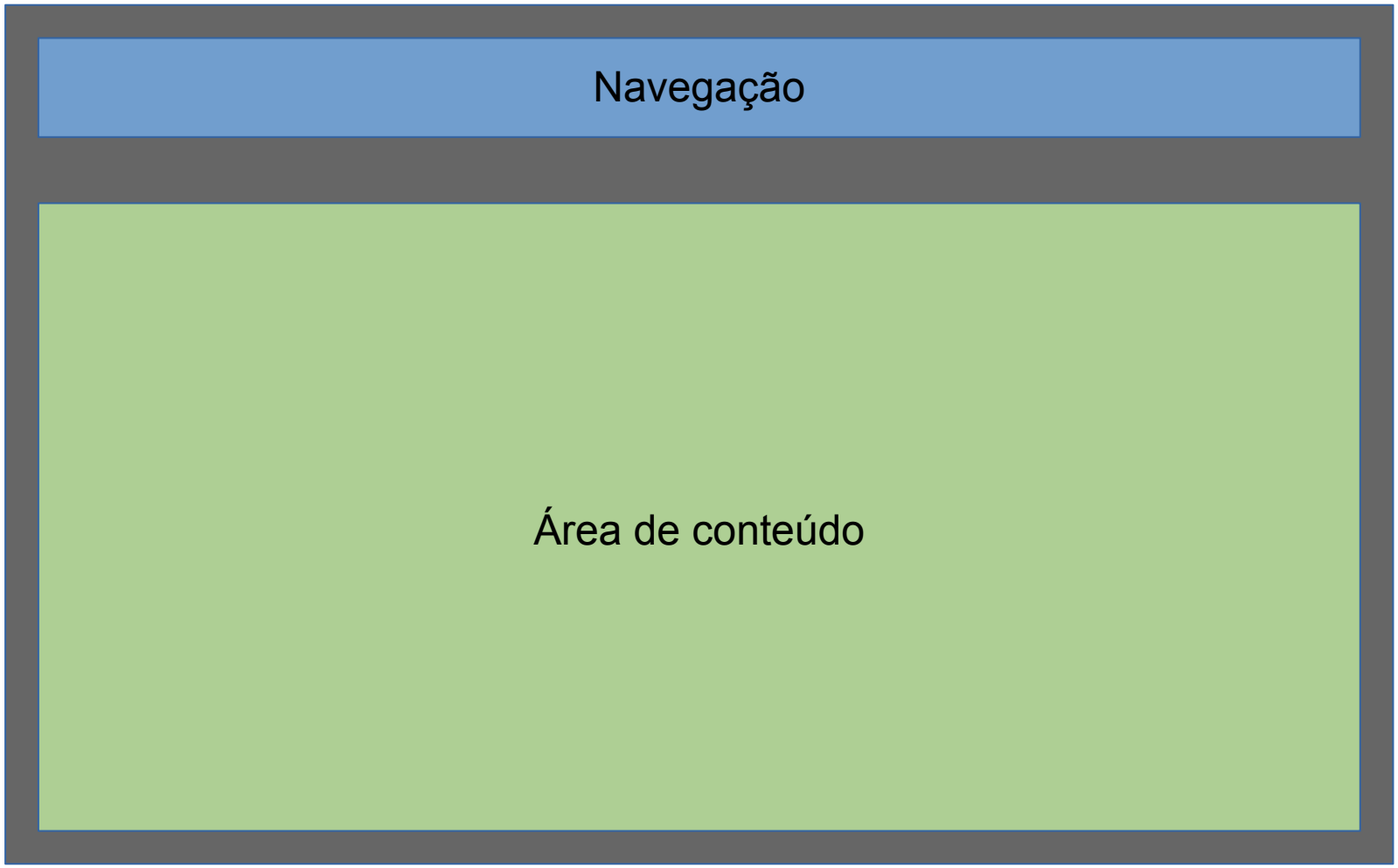
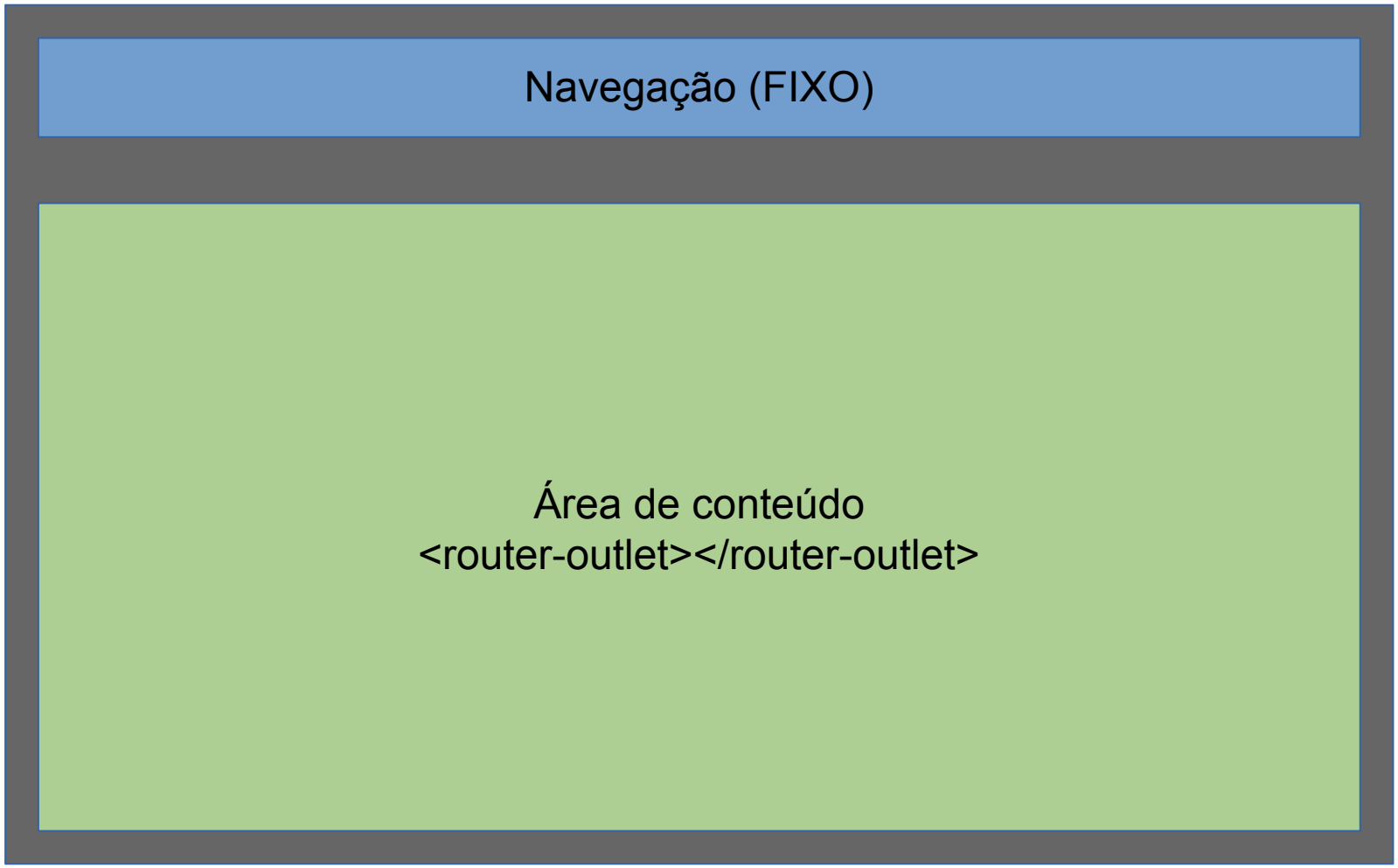
navegacao.component.spec.ts U
navegacao.component.ts U
service
app.component.css A
app.component.html M
app.component.spec.ts A
OUTLINE
TIMELINE
app.component.html M
navegacao.component.html U
navegacao.component.ts
projetoAngularLayoutAluno > src > app > app.component.html > html > body#page-top > app-navegacao
13 <body id="page-top">
14 <!-- Navigation-->
15 <app-navegacao></app-navegacao>
16 <app-header></app-header>
17 <!-- About section-->
18 <app-about></app-about>
19 <!-- Services section-->
20 <app-service></app-service>
21 <!-- Contact section-->
22 <app-contact></app-contact>
23 <!-- Footer-->
24 <footer class="py-5 bg-dark">
25 <p class="m-0 text-center text-white
26 </footer>
27 <!-- Bootstrap core JS-->
28 <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.1/dist/js/boo
29 <!-- Core theme JS-->
30 <script src="js/scripts.js"></script>
31 </body>
32 </html>
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
powershell
/localhost:4200/ **
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno> ng
master*+
0 0
Ln 15, Col 7 Spaces: 4 UTF-8 LF HTML Go Live


Start Bootstrap
About
Services
Contact
Welcome to Scrolling Nav
A functional Bootstrap 5 boilerplate for one page scrolling websites
Start scrolling!
About this page
This is a great place to talk about your webpage. This template is purposefully unstyled so you can use it as a boilerplate or starting point for you own landing page designs! This template features:
Clickable nav links that smooth scroll to page sections
Responsive behavior when clicking nav links perfect for a one page website
Bootstrap's scrollspy feature which highlights which section of the page you're on in the navbar
Minimal custom CSS so you are free to explore your own unique design options


Navegação
Área de conteúdo

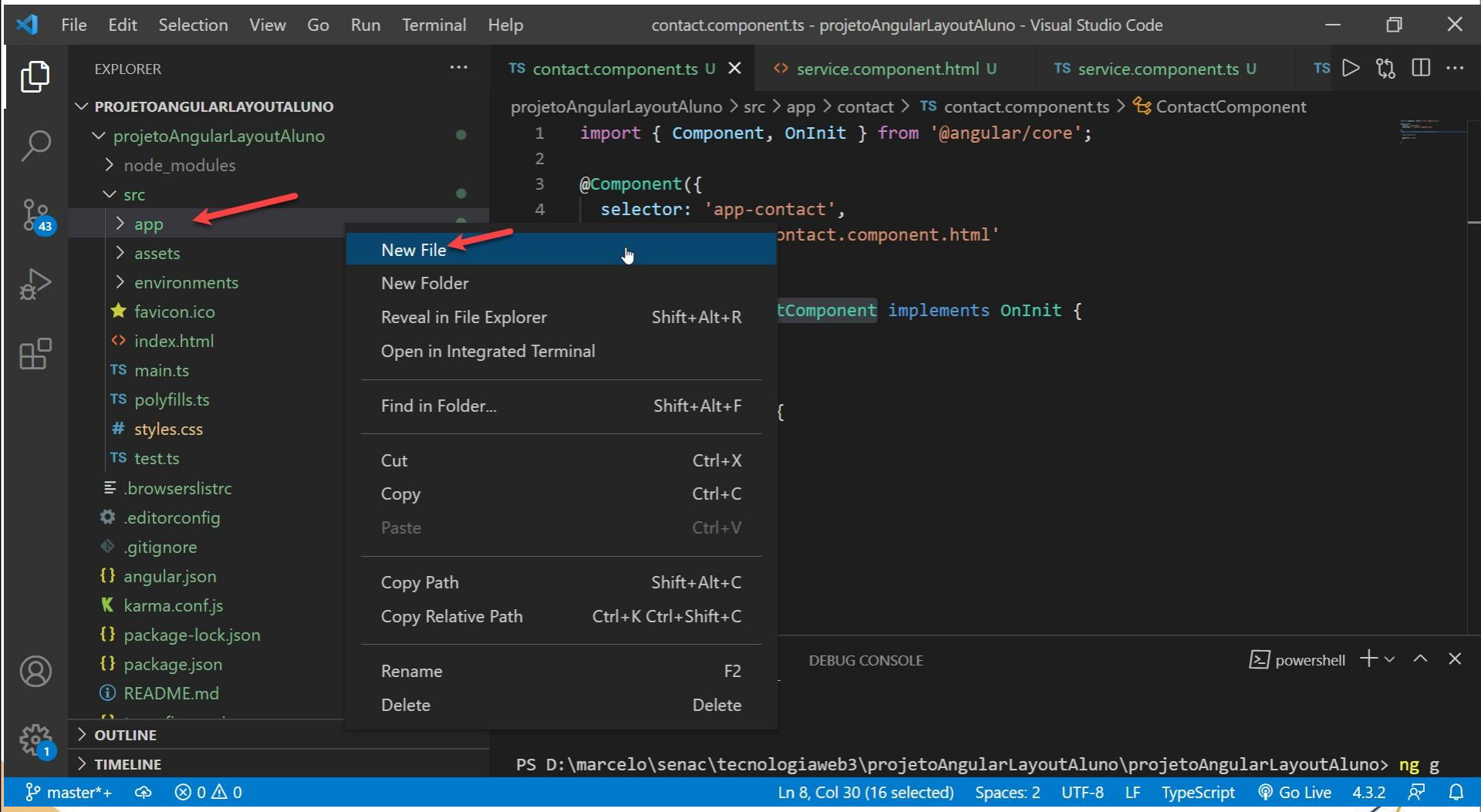

Navegação (FIXO)
Área de conteúdo
<router-outlet></router-outlet>

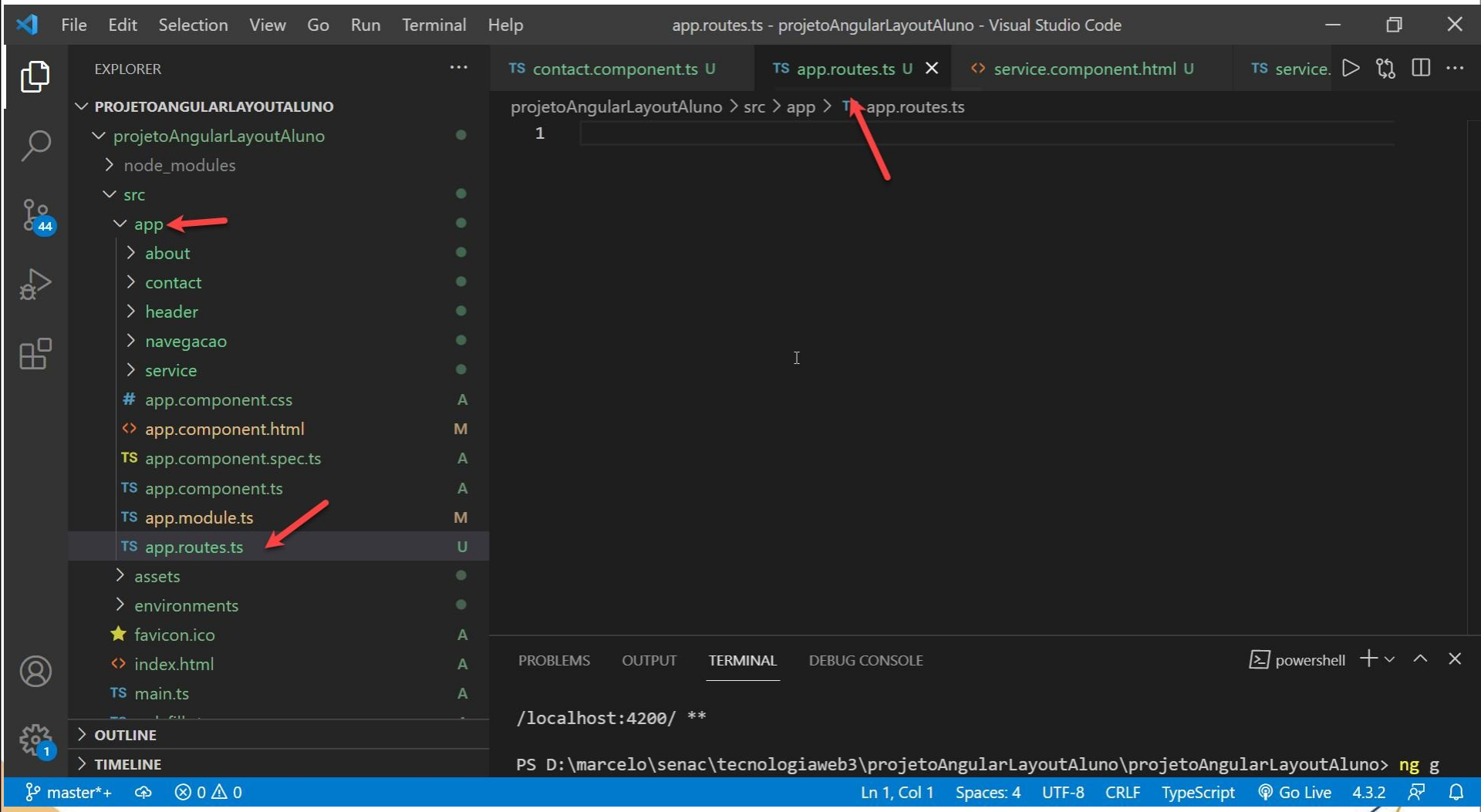
```
export const ROUTERS: Routes = [

{path: ‘header’, component: HeaderComponent},
{path: ‘contact’, component: ContactComponent}

]
```

```
<a routerLink=”/contact”>Contact</a>
ou
<a [routerLink]=”[‘/contact’]”>Contact</a>
```


File Edit Selection View Go Run Terminal Help
contact.component.ts - projetoAngularLayoutAluno - Visual Studio Code
EXPLORER
PROJETOANGULARLAYOUTALUNO
projetoAngularLayoutAluno
node_modules
src
app
assets
environments
favicon.ico
index.html
main.ts
polyfills.ts
styles.css
test.ts
.browserslistrc
.editorconfig
.gitignore
angular.json
karma.conf.js
package-lock.json
package.json
README.md
OUTLINE
TIMELINE
contact.component.ts U
service.component.html U
service.component.ts U
projetoAngularLayoutAluno > src > app > contact > contact.component.ts > ContactComponent
1 import { Component, OnInit } from '@angular/core';
2
3 @Component({
4 selector: 'app-contact',
ontact.component.html'
tComponent implements OnInit {
{
New File
New Folder
Reveal in File Explorer Shift+Alt+R
Open in Integrated Terminal
Find in Folder... Shift+Alt+F
Cut Ctrl+X
Copy Ctrl+C
Paste Ctrl+V
Copy Path Shift+Alt+C
Copy Relative Path Ctrl+K Ctrl+Shift+C
Rename F2
Delete Delete
DEBUG CONSOLE
powershell
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno> ng g
master*+
0 0
Ln 8, Col 30 (16 selected) Spaces: 2 UTF-8 LF TypeScript Go Live 4.3.2


File Edit Selection View Go Run Terminal Help
app.routes.ts - projetoAngularLayoutAluno - Visual Studio Code
EXPLORER
PROJETOANGULARLAYOUTALUNO
projetoAngularLayoutAluno
node_modules
src
app
about
contact
header
navegacao
service
app.component.css
app.component.html
app.component.spec.ts
app.component.ts
app.module.ts
app.routes.ts
assets
environments
favicon.ico
index.html
main.ts
OUTLINE
TIMELINE
contact.component.ts U
app.routes.ts U
service.component.html U
projetoAngularLayoutAluno > src > app > app.routes.ts
1
PROBLEMS
OUTPUT
TERMINAL
DEBUG CONSOLE
powershell
/localhost:4200/ **
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno> ng g
master*+
0 0
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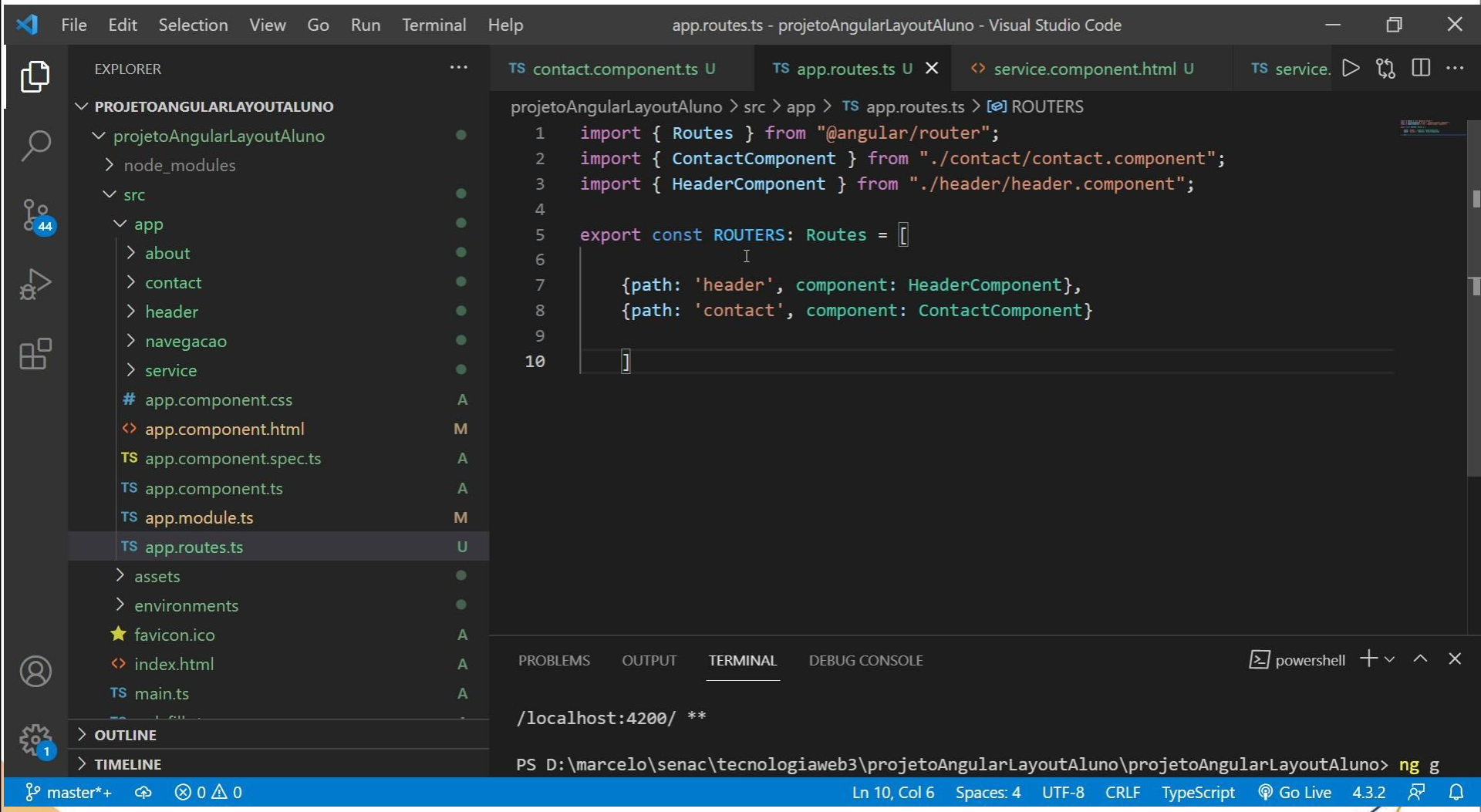
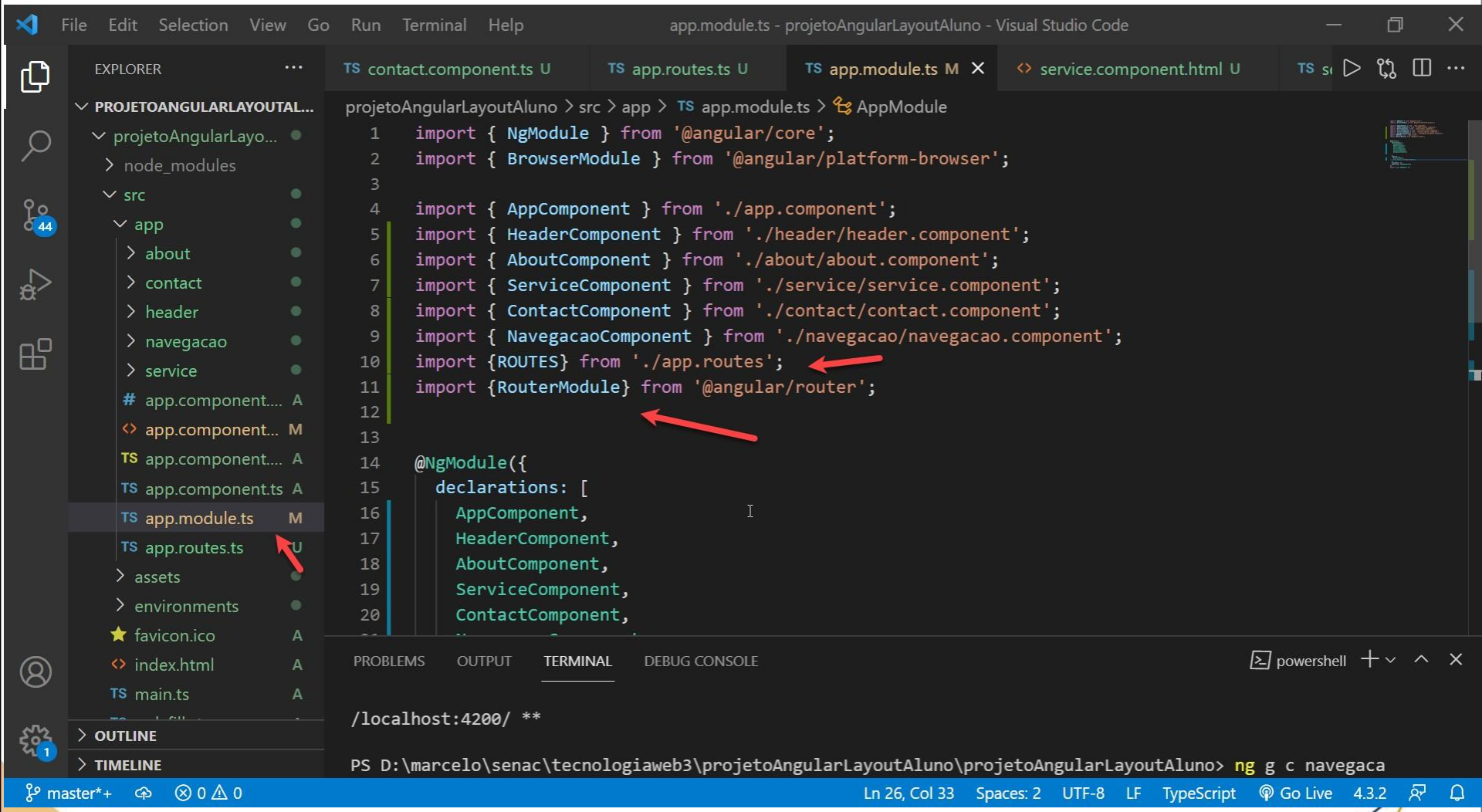
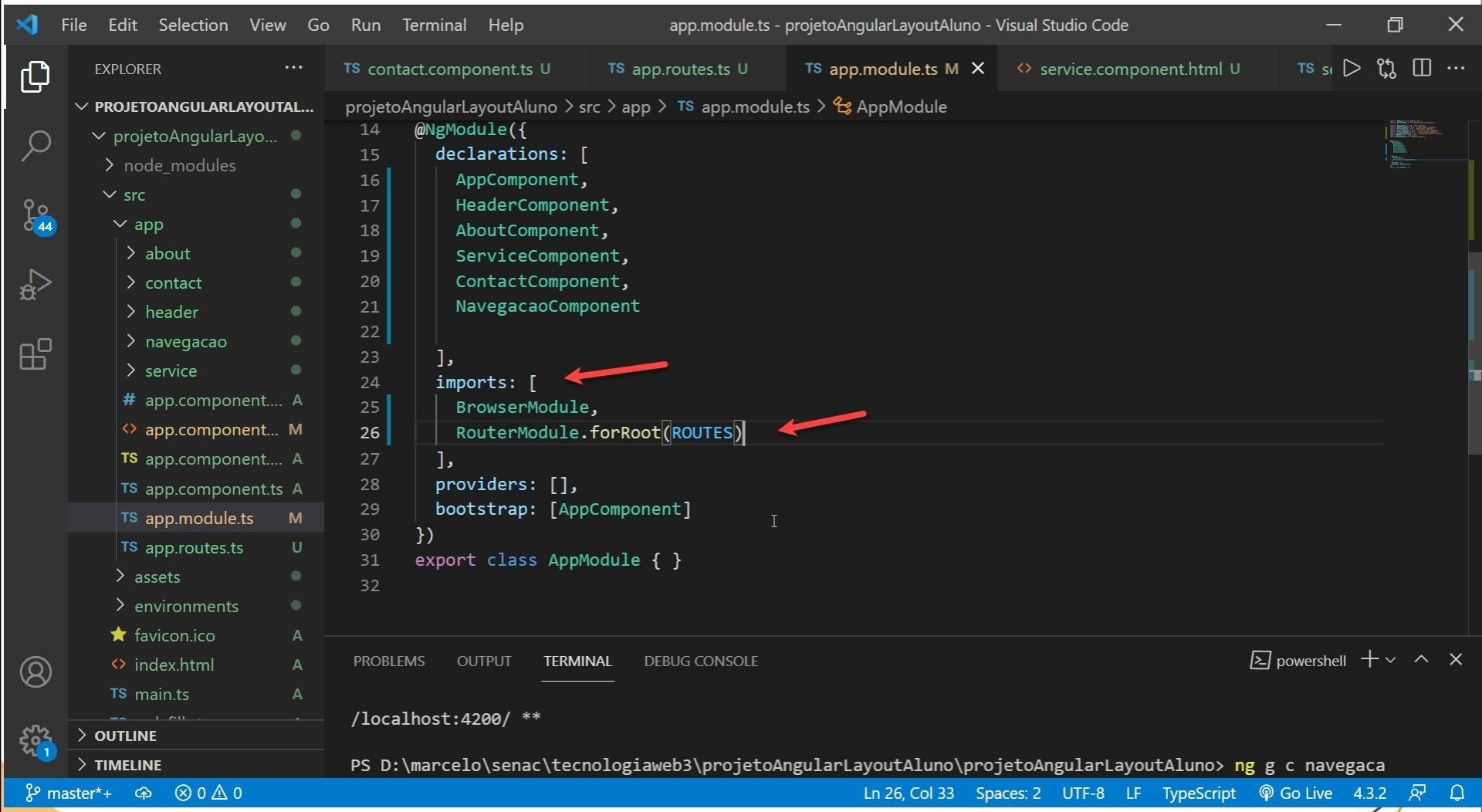
Spaces: 4
UTF-8
CRLF
TypeScript
Go Live
4.3.2


File Edit Selection View Go Run Terminal Help
app.routes.ts - projetoAngularLayoutAluno - Visual Studio Code
EXPLORER
PROJETOANGULARLAYOUTALUNO
projetoAngularLayoutAluno
node_modules
src
app
about
contact
header
navegacao
service
app.component.css
app.component.html
app.component.spec.ts
app.component.ts
app.module.ts
app.routes.ts
assets
environments
favicon.ico
index.html
main.ts
OUTLINE
TIMELINE
contact.component.ts U
app.routes.ts U
service.component.html U
service.
projetoAngularLayoutAluno > src > app > app.routes.ts > ROUTERS
1 import { Routes } from "@angular/router";
2 import { ContactComponent } from "./contact/contact.component";
3 import { HeaderComponent } from "./header/header.component";
4
5 export const ROUTERS: Routes = [
6
7 {path: 'header', component: HeaderComponent},
8 {path: 'contact', component: ContactComponent}
9
10]
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
powershell
/localhost:4200/ **
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno> ng g
master*+
0 0
Ln 10, Col 6 Spaces: 4 UTF-8 CRLF TypeScript Go Live 4.3.2


File Edit Selection View Go Run Terminal Help
app.module.ts - projetoAngularLayoutAluno - Visual Studio Code
EXPLORER
PROJETOANGULARLAYOUTAL...
projetoAngularLayo...
node_modules
src
app
about
contact
header
navegacao
service
app.component.... A
app.component... M
app.component.... A
app.component.ts A
app.module.ts M
app.routes.ts U
assets
environments
favicon.ico A
index.html A
main.ts A
OUTLINE
TIMELINE
contact.component.ts U
app.routes.ts U
app.module.ts M
service.component.html U
projetoAngularLayoutAluno > src > app > app.module.ts > AppModule
1 import { NgModule } from '@angular/core';
2 import { BrowserModule } from '@angular/platform-browser';
3
4 import { AppComponent } from './app.component';
5 import { HeaderComponent } from './header/header.component';
6 import { AboutComponent } from './about/about.component';
7 import { ServiceComponent } from './service/service.component';
8 import { ContactComponent } from './contact/contact.component';
9 import { NavegacaoComponent } from './navegacao/navegacao.component';
10 import {ROUTES} from './app.routes';
11 import {RouterModule} from '@angular/router';
12
13
14 @NgModule({
15 declarations: [
16 AppComponent,
17 HeaderComponent,
18 AboutComponent,
19 ServiceComponent,
20 ContactComponent,
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
powershell
/localhost:4200/ **
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno> ng g c navegaca
master*+ 0 0
Ln 26, Col 33 Spaces: 2 UTF-8 LF TypeScript Go Live 4.3.2


File Edit Selection View Go Run Terminal Help
app.module.ts - projetoAngularLayoutAluno - Visual Studio Code
EXPLORER
PROJETOANGULARLAYOUTAL...
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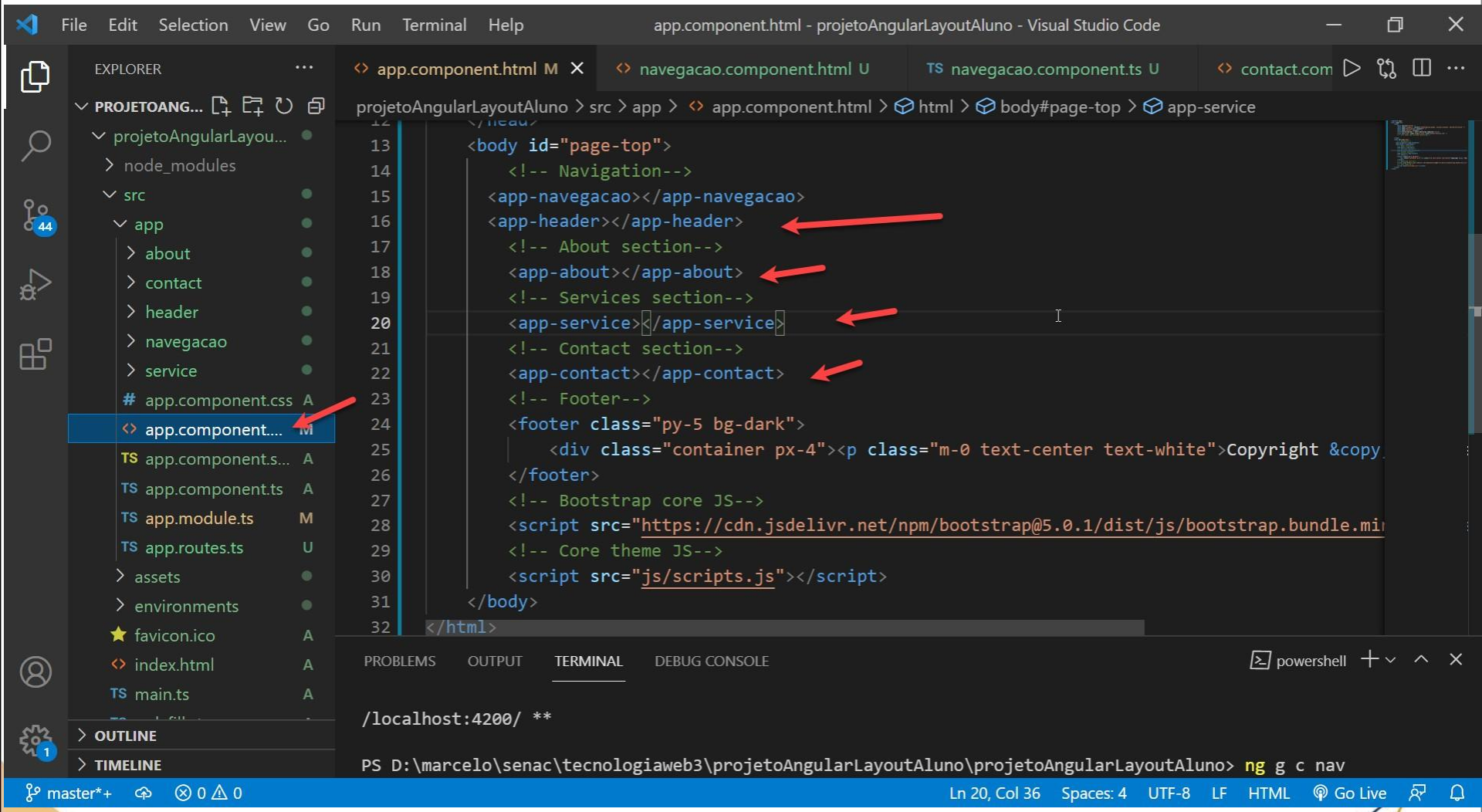
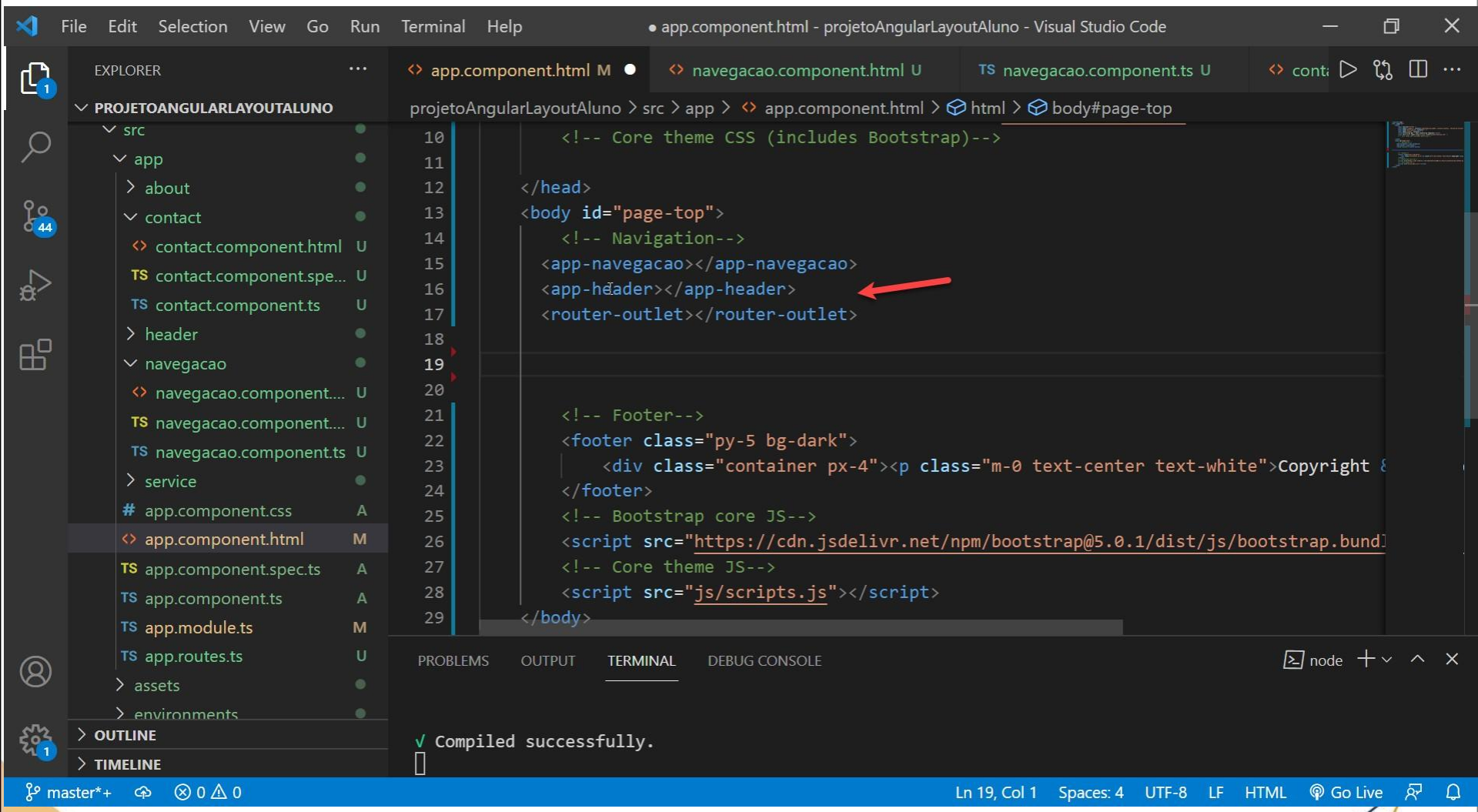
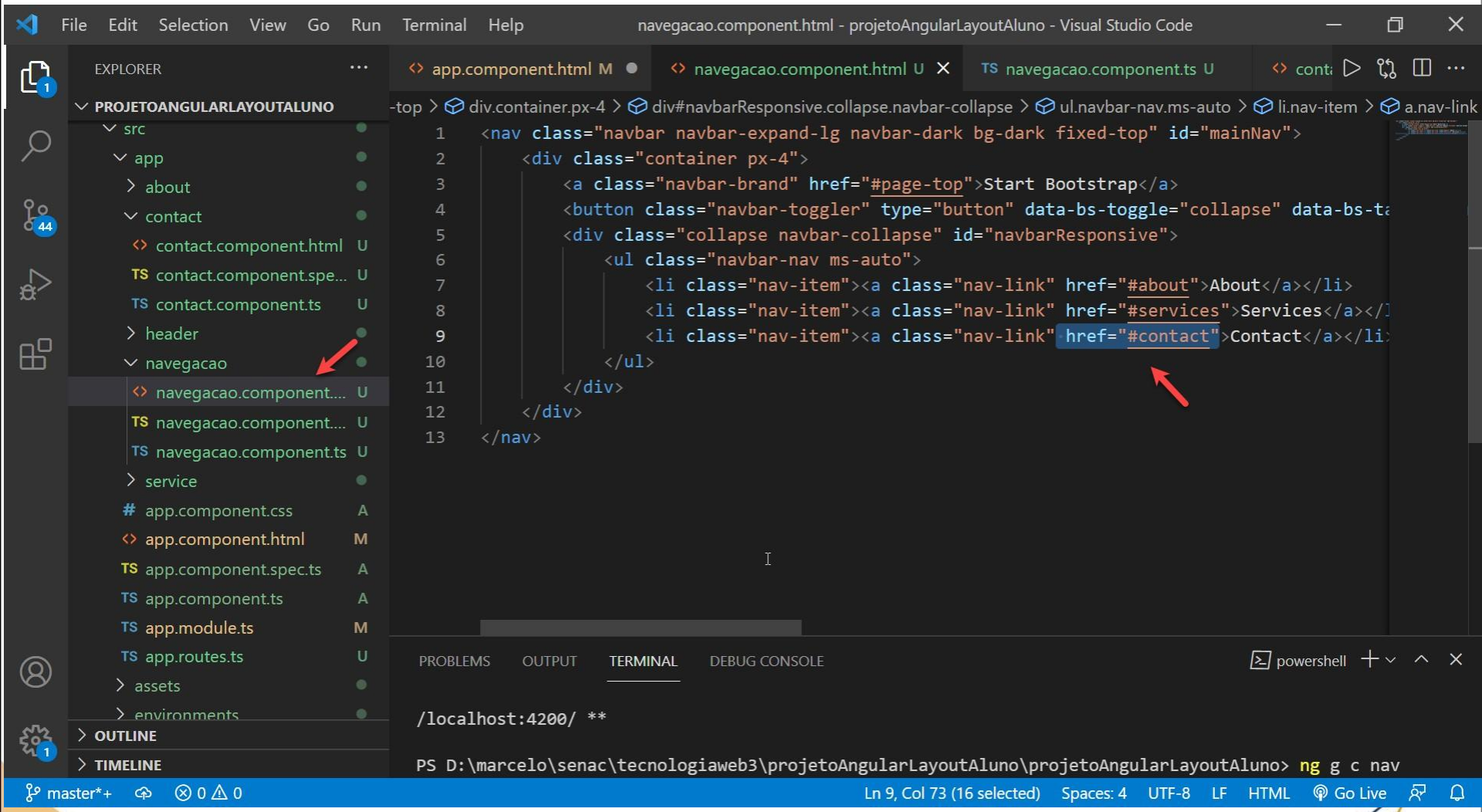
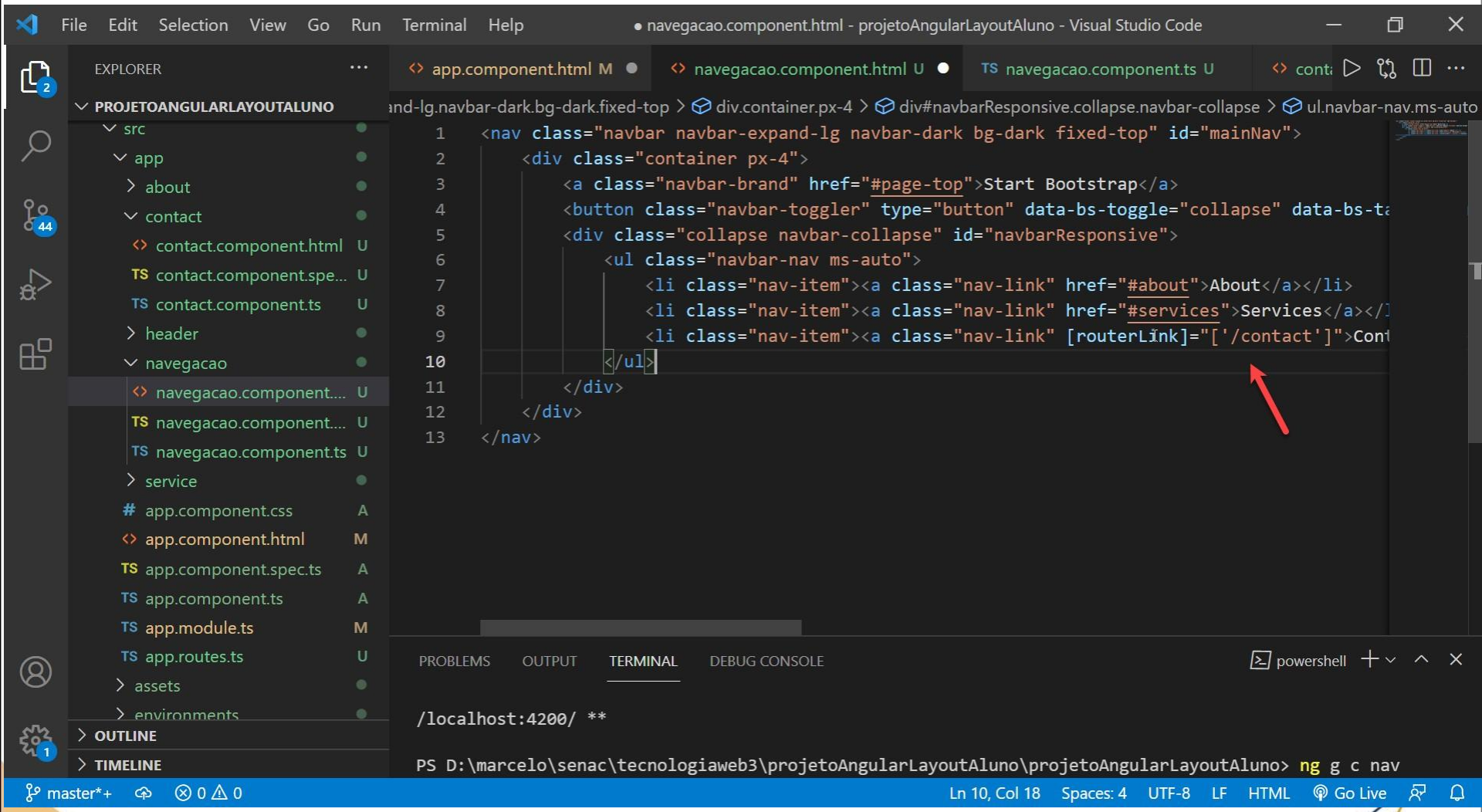
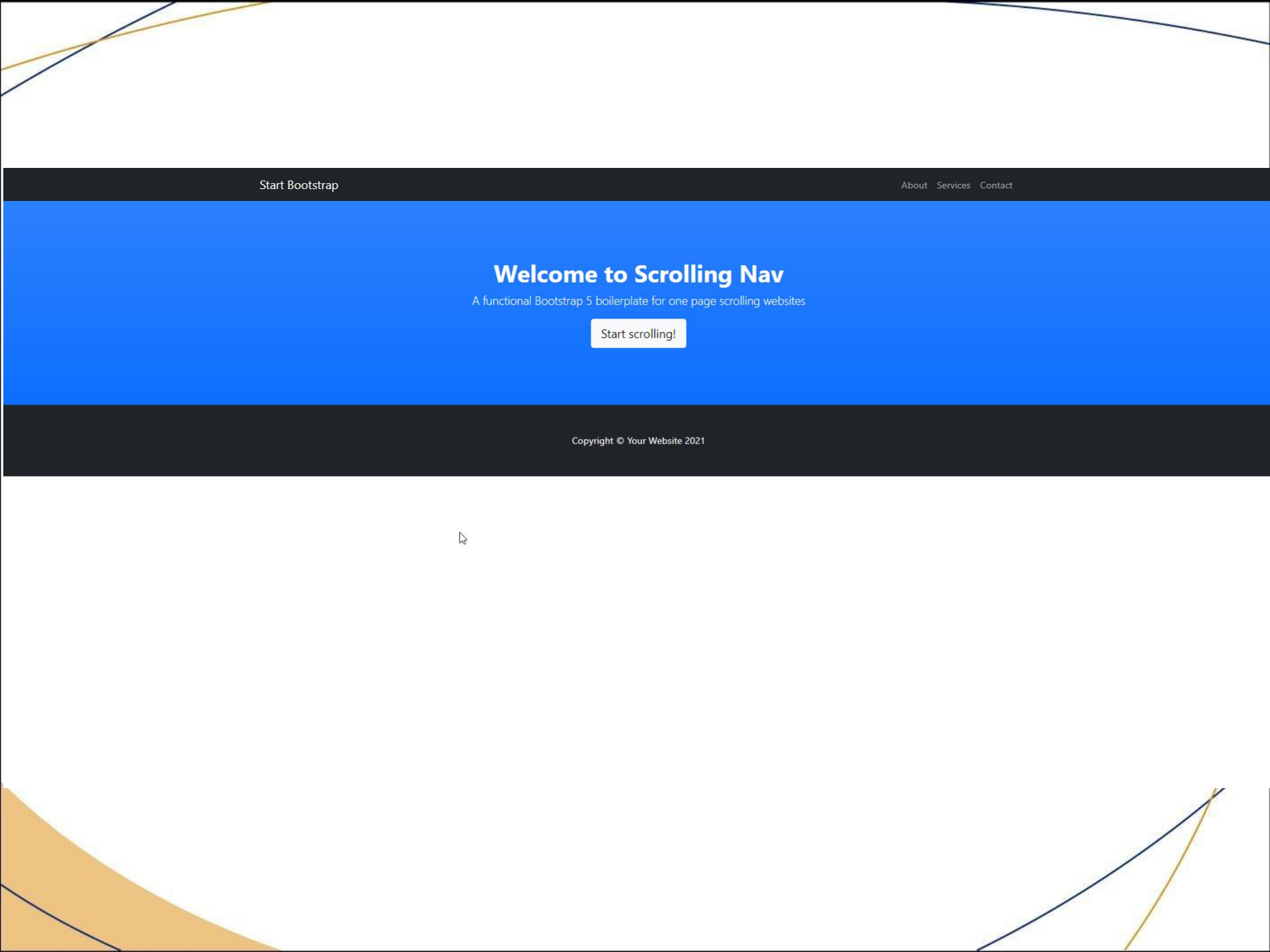
node_modules
src
app
about
contact
header
navegacao
service
app.component.... A
app.component... M
app.component.... A
app.component.ts A
app.module.ts M
app.routes.ts U
assets
environments
favicon.ico A
index.html A
main.ts A
OUTLINE
TIMELINE
contact.component.ts U
app.routes.ts U
app.module.ts M
service.component.html U
projetoAngularLayoutAluno > src > app > app.module.ts > AppModule
@NgModule({
declarations: [
AppComponent,
HeaderComponent,
AboutComponent,
ServiceComponent,
ContactComponent,
NavegacaoComponent
],
imports: [
BrowserModule,
RouterModule.forRoot(ROUTES)
],
providers: [],
bootstrap: [AppComponent]
})
export class AppModule { }
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
powershell
/localhost:4200/ **
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno> ng g c navegaca
master*+
0 0
Ln 26, Col 33 Spaces: 2 UTF-8 LF TypeScript Go Live 4.3.2

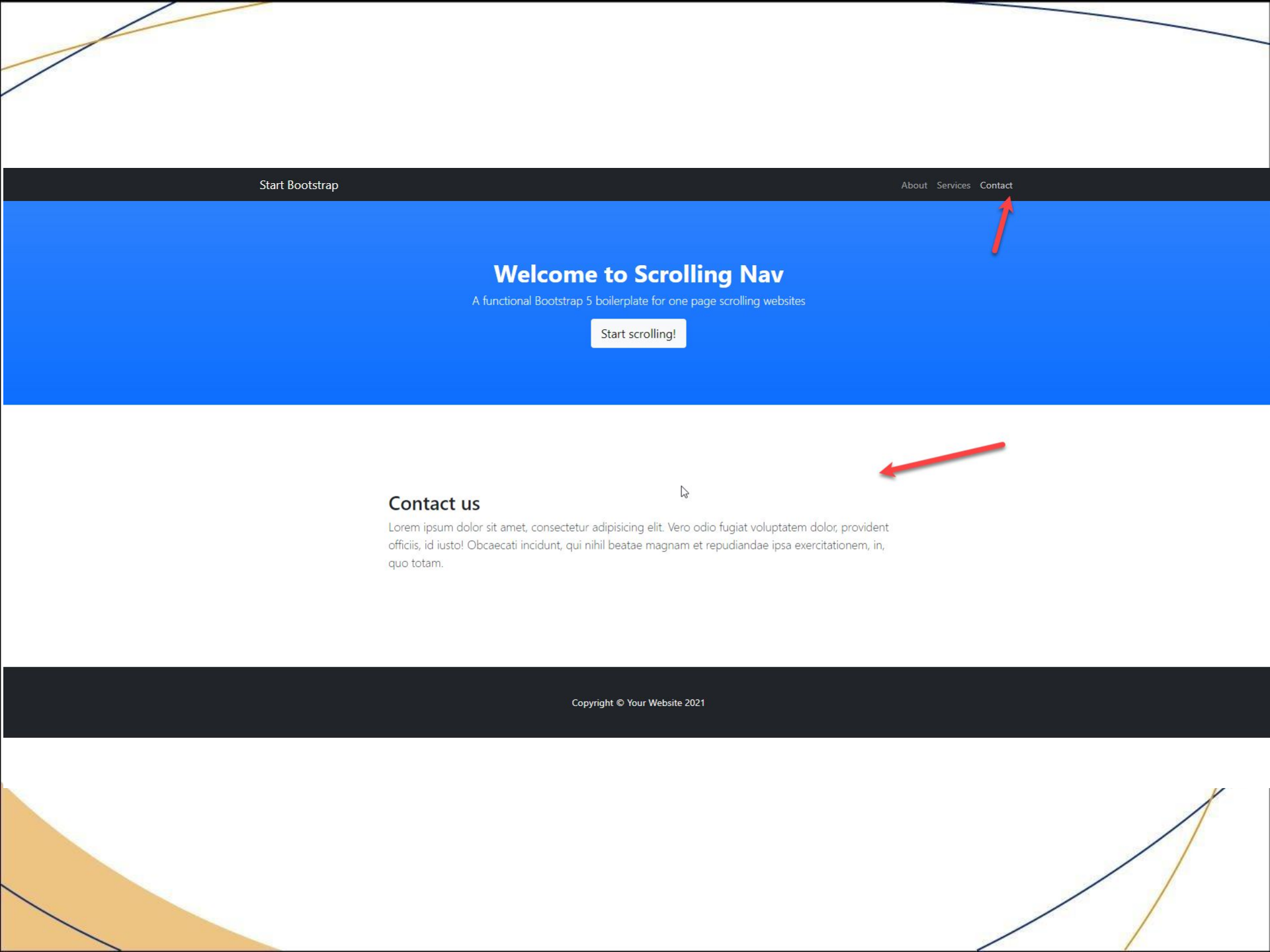

File Edit Selection View Go Run Terminal Help
app.component.html - projetoAngularLayoutAluno - Visual Studio Code
EXPLORER
app.component.html M
navegacao.component.html U
navegacao.component.ts U
projetoAngularLayoutAluno > src > app > app.component.html > html > body#page-top > app-service
13 <body id="page-top">
14 <!-- Navigation-->
15 <app-navegacao></app-navegacao>
16 <app-header></app-header>
17 <!-- About section-->
18 <app-about></app-about>
19 <!-- Services section-->
20 <app-service></app-service>
21 <!-- Contact section-->
22 <app-contact></app-contact>
23 <!-- Footer-->
24 <footer class="py-5 bg-dark">
25 <p class="m-0 text-center text-white">Copyright &copy
26 </footer>
27 <!-- Bootstrap core JS-->
28 <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.1/dist/js/bootstrap.bundle.mi
29 <!-- Core theme JS-->
30 <script src="js/scripts.js"></script>
31 </body>
32 </html>
projetoAngularLayou...
node_modules
src
app
about
contact
header
navegacao
service
app.component.css A
app.component.... M
app.component.s... A
app.component.ts A
app.module.ts M
app.routes.ts U
assets
environments
favicon.ico A
index.html A
main.ts A
OUTLINE
TIMELINE
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
powershell
/localhost:4200/ **
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno> ng g c nav
master*+
Ln 20, Col 36 Spaces: 4 UTF-8 LF HTML Go Live


File Edit Selection View Go Run Terminal Help
• app.component.html - projetoAngularLayoutAluno - Visual Studio Code
EXPLORER
PROJETOANGULARLAYOUTALUNO
src
app
about
contact
contact.component.html U
contact.component.spe... U
contact.component.ts U
header
navegacao
navegacao.component.... U
navegacao.component.... U
navegacao.component.ts U
service
app.component.css A
app.component.html M
app.component.spec.ts A
app.component.ts A
app.module.ts M
app.routes.ts U
assets
environments
OUTLINE
TIMELINE
app.component.html M
navegacao.component.html U
navegacao.component.ts U
projetoAngularLayoutAluno > src > app > app.component.html > html > body#page-top
<!-- Core theme CSS (includes Bootstrap)-->
</head>
<body id="page-top">
<!-- Navigation-->
<app-navegacao></app-navegacao>
<app-header></app-header>
<router-outlet></router-outlet>
<!-- Footer-->
<footer class="py-5 bg-dark">
<p class="m-0 text-center text-white">Copyright &
</footer>
<!-- Bootstrap core JS-->
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.1/dist/js/bootstrap.bundl
<!-- Core theme JS-->
<script src="js/scripts.js"></script>
</body>
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
node
√ Compiled successfully.
master*+ 0 0
Ln 19, Col 1 Spaces: 4 UTF-8 LF HTML Go Live


File Edit Selection View Go Run Terminal Help
navegacao.component.html - projetoAngularLayoutAluno - Visual Studio Code
EXPLORER
PROJETOANGULARLAYOUTALUNO
src
app
about
contact
contact.component.html U
contact.component.spe... U
contact.component.ts U
header
navegacao
navegacao.component.... U
navegacao.component.... U
navegacao.component.ts U
service
app.component.css A
app.component.html M
app.component.spec.ts A
app.component.ts A
app.module.ts M
app.routes.ts U
assets
environments
OUTLINE
TIMELINE
app.component.html M
navegacao.component.html U
navegacao.component.ts U
-top > div.container.px-4 > div#navbarResponsive.collapse.navbar-collapse > ul.navbar-nav.ms-auto > li.nav-item > a.nav-link
1 <nav class="navbar navbar-expand-lg navbar-dark bg-dark fixed-top" id="mainNav">
2
3 Start Bootstrap
4 <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-ta
5
6 <ul class="navbar-nav ms-auto">
7 <li class="nav-item">About
8 <li class="nav-item">Services</
9 <li class="nav-item">Contact
10
11
12
13 </nav>
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
powershell
/localhost:4200/ **
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno> ng g c nav
master*+
0 0
Ln 9, Col 73 (16 selected) Spaces: 4 UTF-8 LF HTML Go Live


File Edit Selection View Go Run Terminal Help
• navegacao.component.html - projetoAngularLayoutAluno - Visual Studio Code
EXPLORER
PROJETOANGULARLAYOUTALUNO
src
app
about
contact
contact.component.html U
contact.component.spe... U
contact.component.ts U
header
navegacao
navegacao.component.... U
navegacao.component.... U
navegacao.component.ts U
service
app.component.css A
app.component.html M
app.component.spec.ts A
app.component.ts A
app.module.ts M
app.routes.ts U
assets
environments
OUTLINE
TIMELINE
app.component.html M
navegacao.component.html U
navegacao.component.ts U
nd-lg.navbar-dark.bg-dark.fixed-top > div.container.px-4 > div#navbarResponsive.collapse.navbar-collapse > ul.navbar-nav.ms-auto
1 <nav class="navbar navbar-expand-lg navbar-dark bg-dark fixed-top" id="mainNav">
2
3 Start Bootstrap
4 <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-ta
5
6 <ul class="navbar-nav ms-auto">
7 <li class="nav-item">About
8 <li class="nav-item">Services</
9 <li class="nav-item"><a class="nav-link" [routerLink]="['/contact']">Cont
10
11
12
13 </nav>
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
powershell
/localhost:4200/ **
PS D:\marcelo\senac\tecnologiaweb3\projetoAngularLayoutAluno\projetoAngularLayoutAluno> ng g c nav
master*+ 0 0
Ln 10, Col 18 Spaces: 4 UTF-8 LF HTML Go Live

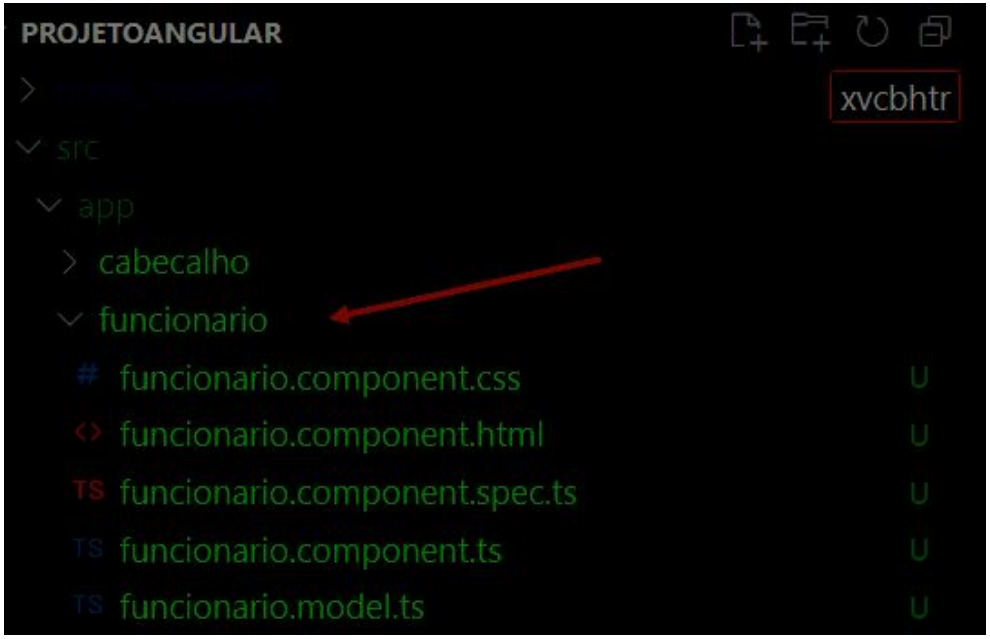

Start Bootstrap
About
Services
Contact
Welcome to Scrolling Nav
A functional Bootstrap 5 boilerplate for one page scrolling websites
Start scrolling!
Copyright © Your Website 2021


Start Bootstrap
About
Services
Contact
Welcome to Scrolling Nav
A functional Bootstrap 5 boilerplate for one page scrolling websites
Start scrolling!
Contact us
Lorem ipsum dolor sit amet, consectetur adipisicing elit. Vero odio fugiat voluptatem dolor, provident officiis, id iusto! Obcaecati incidunt, qui nihil beatae magnam et repudiandae ipsa exercitationem, in, quo totam.
Copyright © Your Website 2021

Faça a rota para o service e about

Manipulação de Dados

Criar o componente funcionario

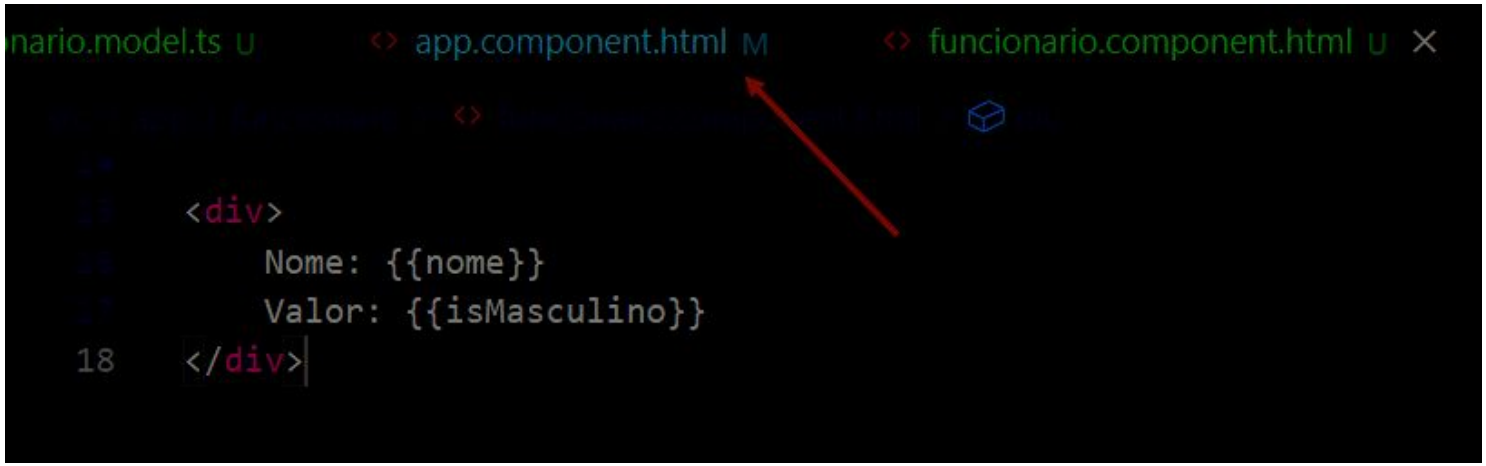


Criando duas

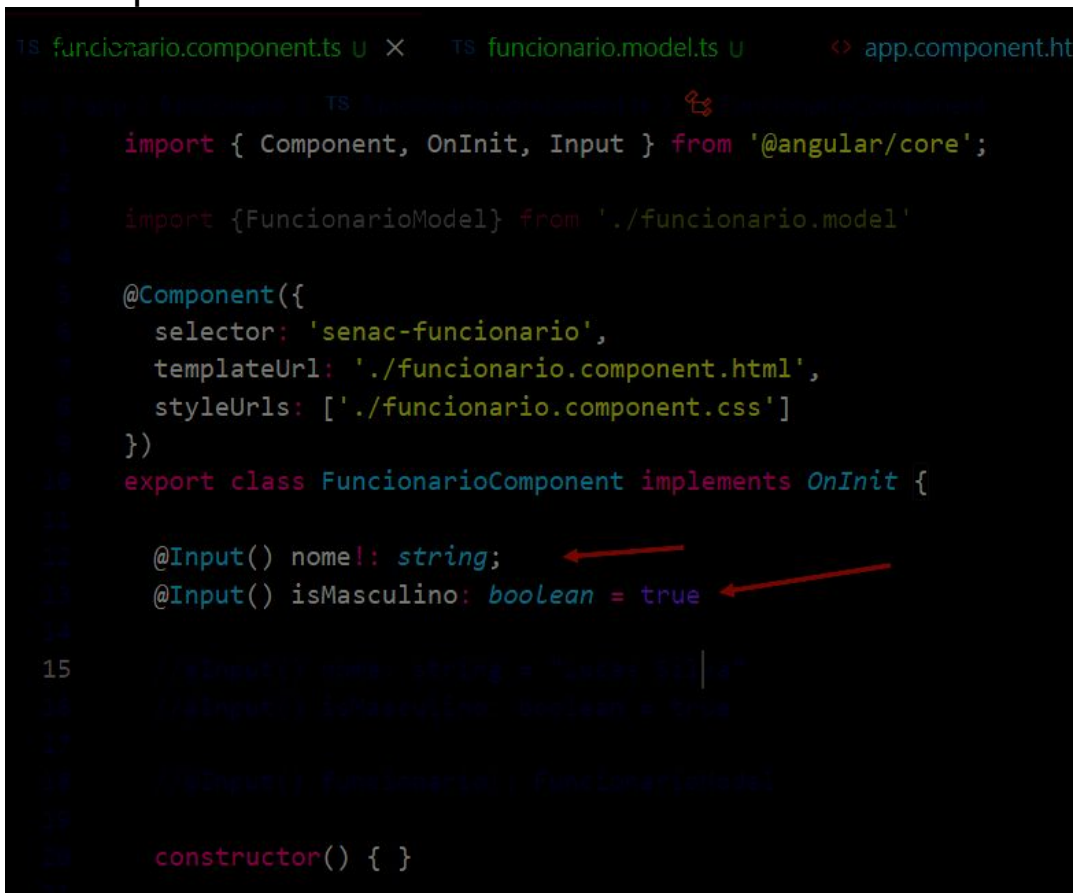
```
import { Component, OnInit, Input } from '@angular/core';

import {FuncionarioModel} from './funcionario.model'

@Component({
  selector: 'senac-funcionario',
  templateUrl: './funcionario.component.html',
  styleUrls: ['./funcionario.component.css']
})
export class FuncionarioComponent implements OnInit {

  @Input() nome: string = "Lucas Silva";
  @Input() isMasculino: boolean = true
```

@Input é utilizado para passar valores para o componente.
Já vamos ver isso na frente

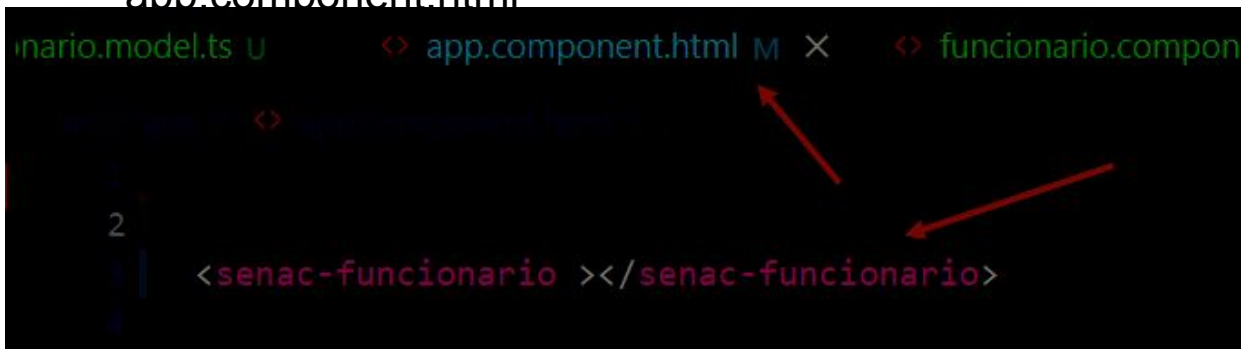
Montando o html do componente.. usando binding para apresentar
O valor das variáveis



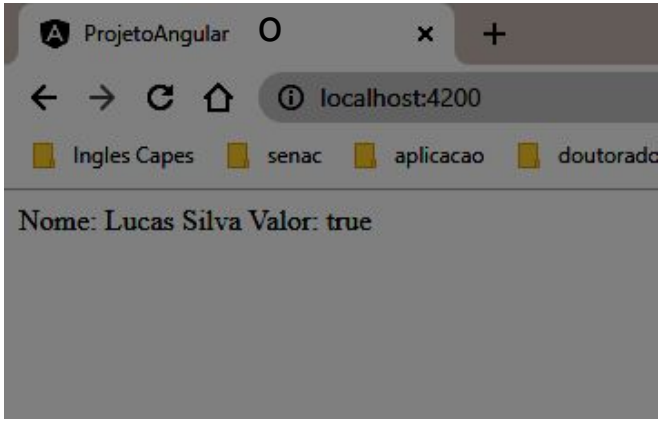
Se não quiser setar um valor para uma variavel deve ser colocado o !
Exemplo



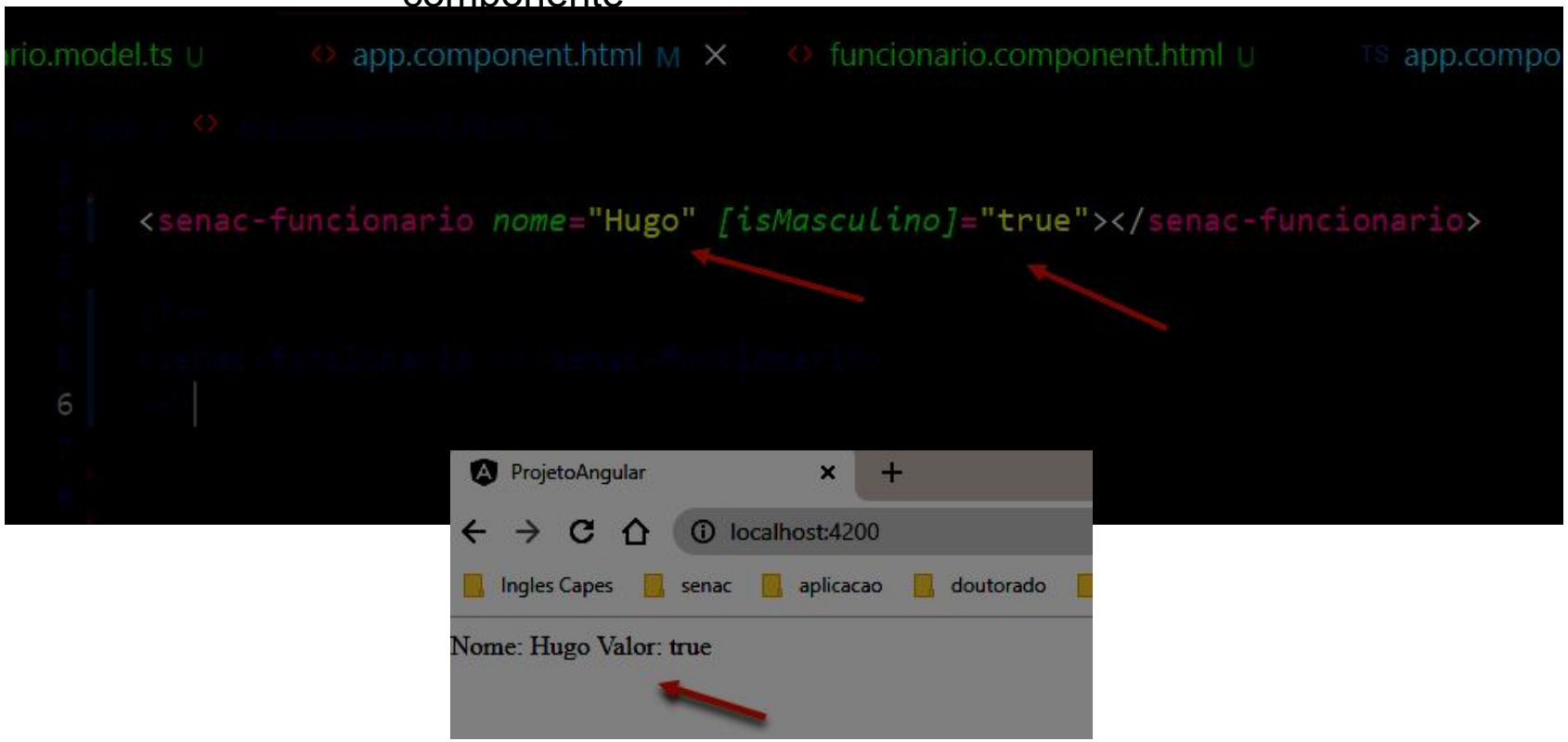
Chamando o componente no app.component.html

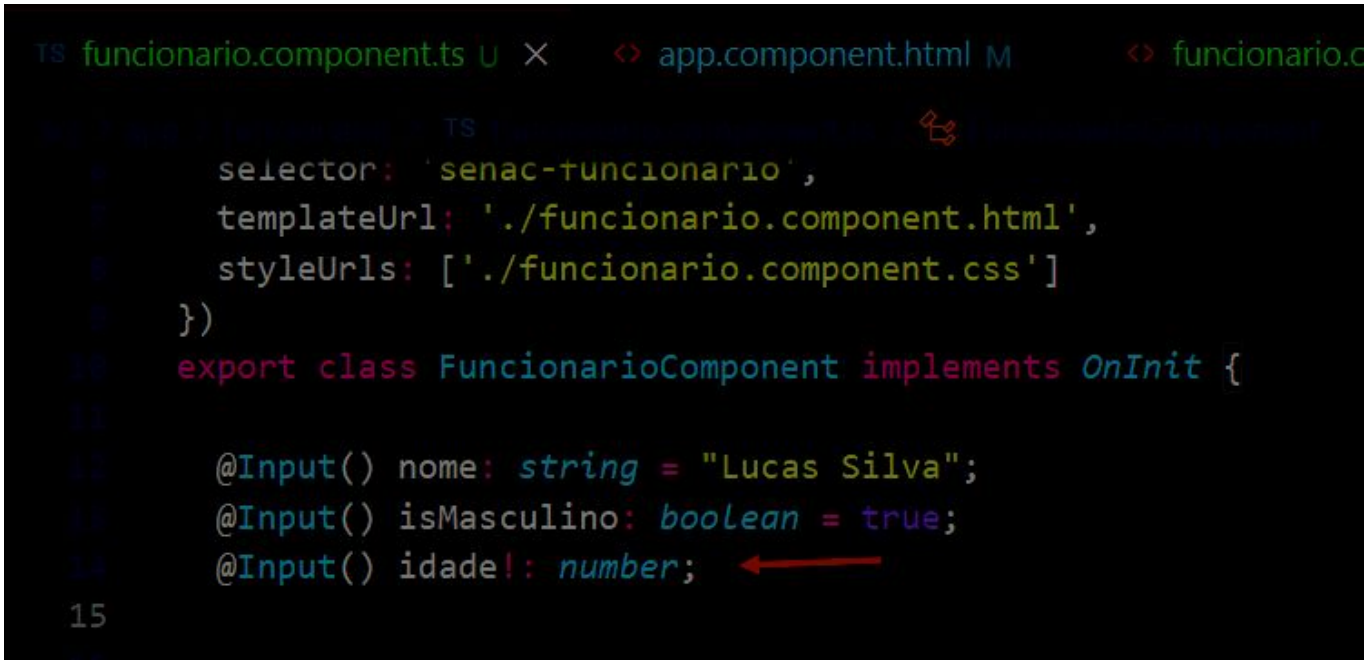


Visualizaçã

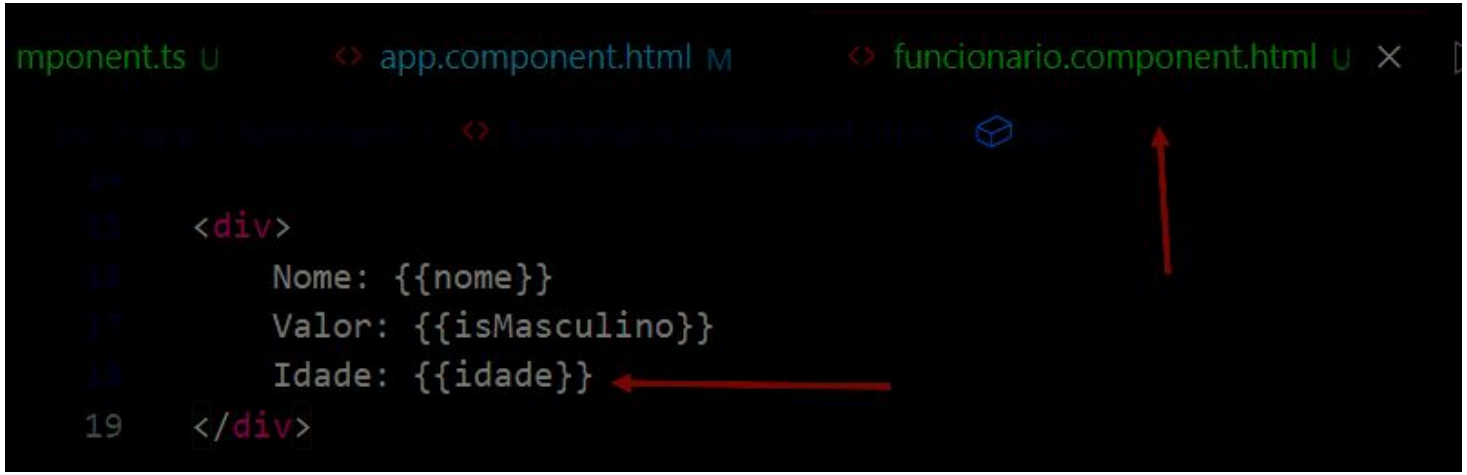


Passando valores para o componente





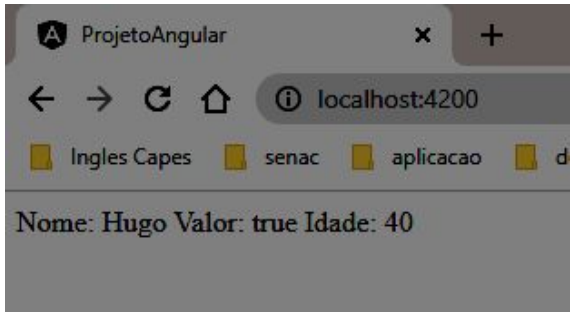
Vamos acrescentar a idade


mponent.ts U
app.component.html M
funcionario.component.html U

Nome: {{nome}}
Valor: {{isMasculino}}
Idade: {{idade}}

funcionario.component.ts U app.component.html M funcionario.component.html U gerente.compon

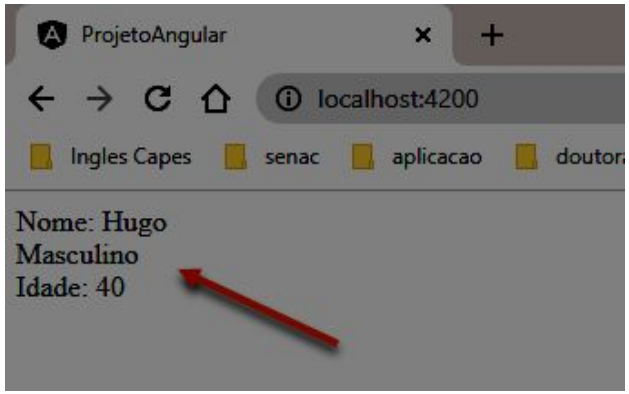
```
<senac-funcionario nome="Hugo" [isMasculino]="true" [idade]="40"></senac-funcionario>
```



Diretiva

funcionario.component.ts U app.component.html M funcionario.component.html U

```
<div>
    Nome: {{nome}}
    <div *ngIf=[isMasculino]>
        Masculino
    </div>

    Idade: {{idade}}
</div>
```

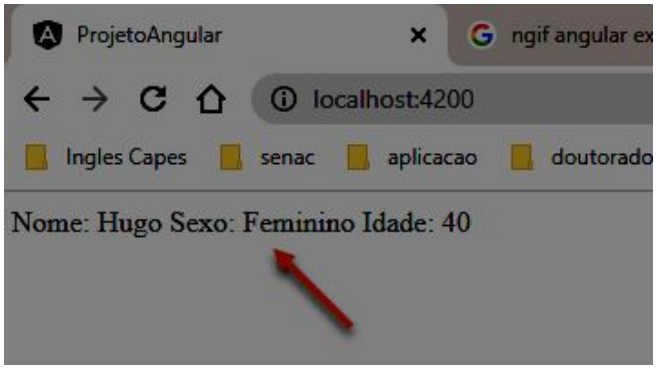


Usando template para fazer o else

Trocar para

funcionario.component.ts U app.component.html M funcionario.component.html U gerente.compo

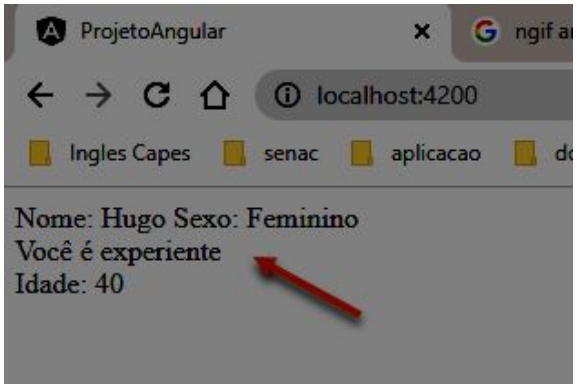
```
<senac-funcionario nome="Hugo" [isMasculino]=false [idade]="40"></senac-funcionario>
```



Se for falso e a idade for igual a 40

<!-- operador lógico AND -->

```
<div>
    Nome: {{nome}}
    Sexo:
    <div *ngIf="isMasculino; else feminino">
        Masculino
    </div>
    <ng-template #feminino>
        Feminino
    </ng-template>

    <div *ngIf="!isMasculino && idade == 40">
        Você é experiente
    </div>

    Idade: {{idade}}
</div>
```

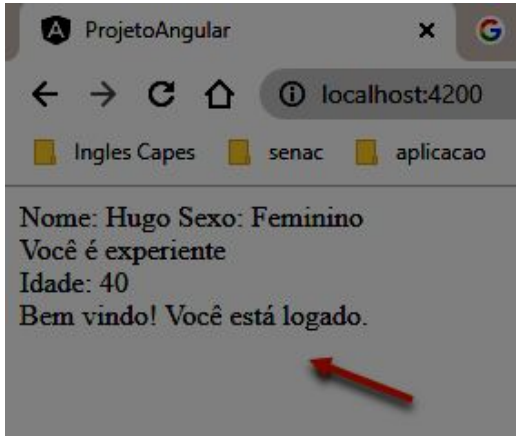


<!-- operador lógico OR -->

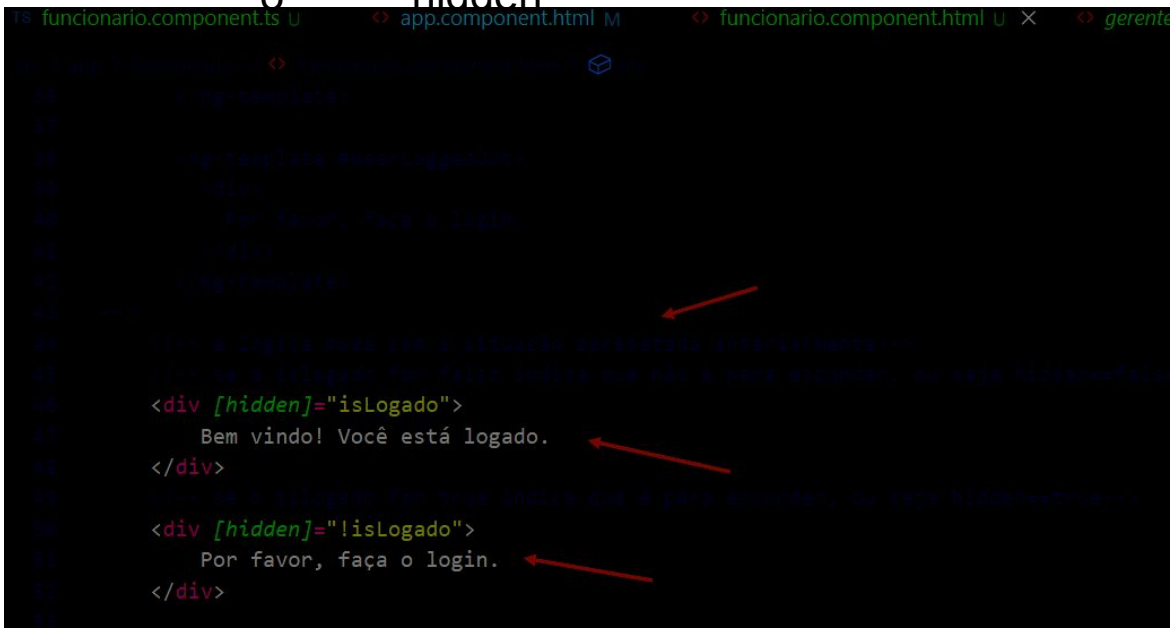
Vamos explorar um pouco mais sobre template

funcionario.component.ts U app.component.html M funcionario.component.html U

```
            Você é experiente
        </div>

        Idade: {{idade}}

        <ng-template [ngIf]="isLogado" [ngIfElse]="userLoggedOut">
            <div>
              Bem vindo! Você está logado.
            </div>
          </ng-template>

          <ng-template #userLoggedOut>
            <div>
              Por favor, faça o login.
            </div>
          </ng-template>
    </div>
```



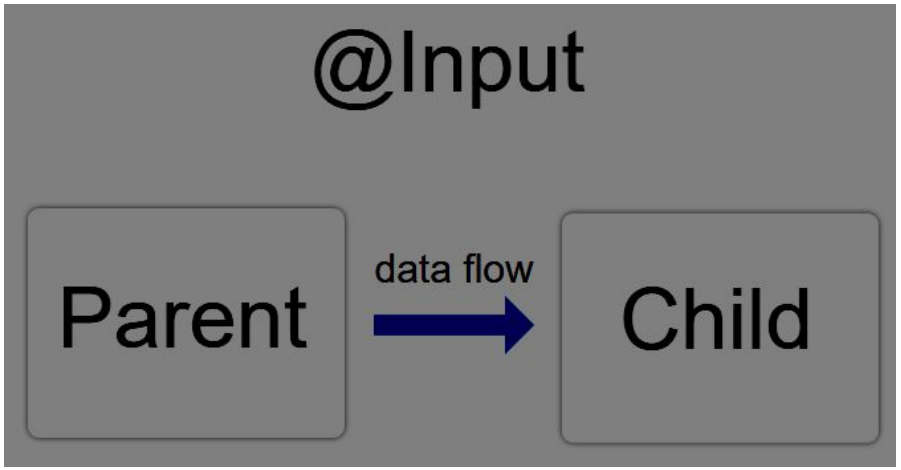
Usando o hidden



O [hidden] “oculta” o conteúdo, mas ele ainda está presente ao “inspecionar” a página.

Se esse conteúdo for restrito para alguns usuários, então utilizar o [hidden] é uma falha de segurança grave.

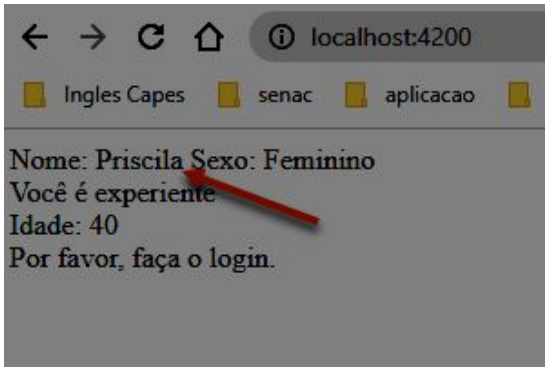
Passando dados entre o componente Pai para o filho



Referencia:
https://angular.io/guide/inputs-outputs

Definimos uma variável chamada nomeFuncionario no app.component

No html do app.component estamos passando para o componente funcionario
A variavel nomeFuncionario para dentro da varial nome de funcionario.
Perceba que agora o nome precisa estar entre [ ]

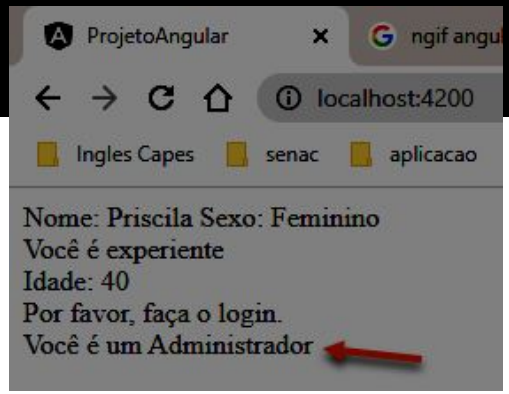


Diretiva
ngSwitch


funcionario.component.ts U
app.component.html M
app.component.ts
})
export class FuncionarioComponent implements OnInit {
@Input() nome: string = "Lucas Silva";
@Input() isMasculino: boolean = true;
@Input() idade!: number;
isLogado: boolean = true;
@Input() tipoFuncionario: string = "Administrador"

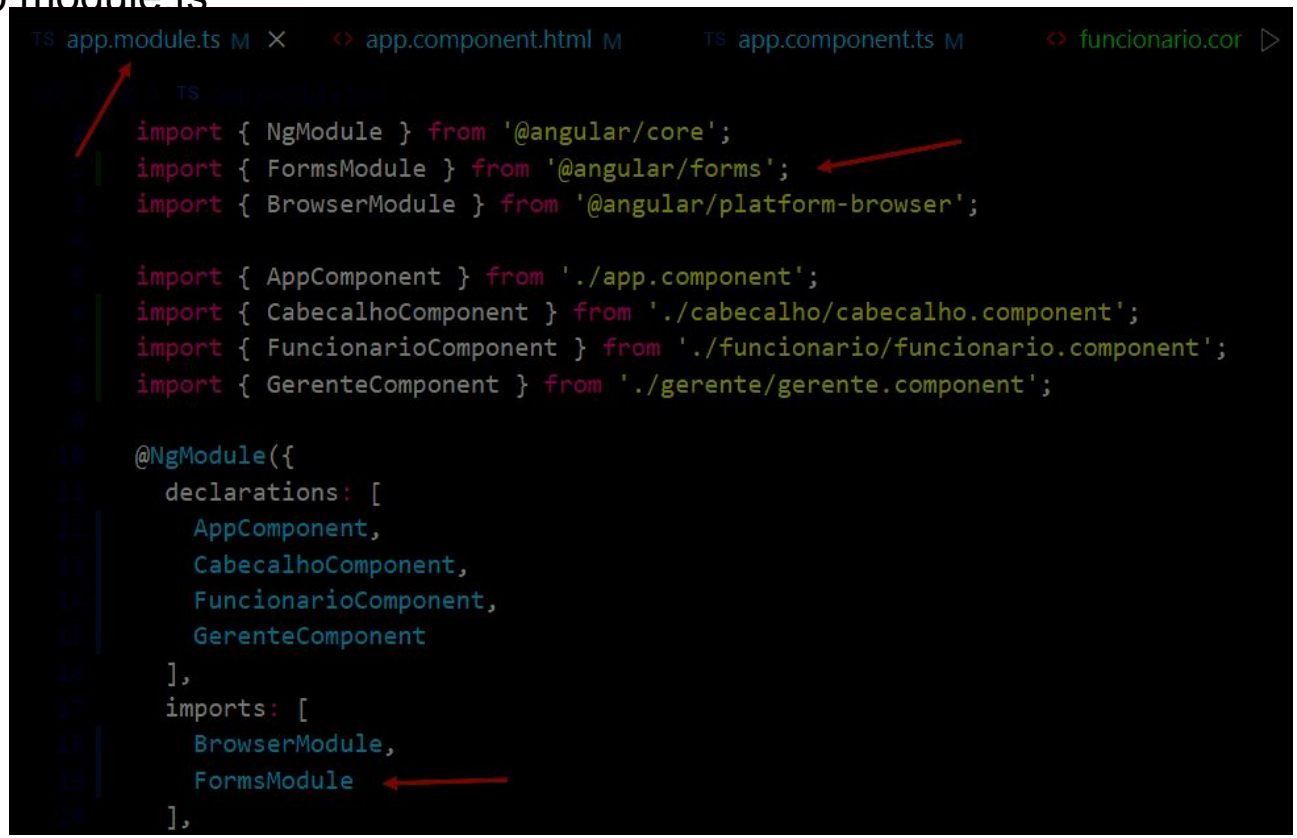
funcionario.component.ts U | app.component.html M | app.component.ts M | funcionario.component.html U

```
<div [hidden]="isLogado">
    Bem vindo! Você está logado.
</div>

<div [hidden]="!isLogado">
    Por favor, faça o login.
</div>

<div [ngSwitch]="tipoFuncionario">
    <div *ngSwitchCase="'Administrador'">Você é um Administrador</div>
    <div *ngSwitchCase="'Gerente'">Você é um Gerente</div>
    <div *ngSwitchCase="'Vendedor'">Você é um Vendedor</div>
    <div *ngSwitchDefault>Você é um usuário</div>
  </div>


</div>
```

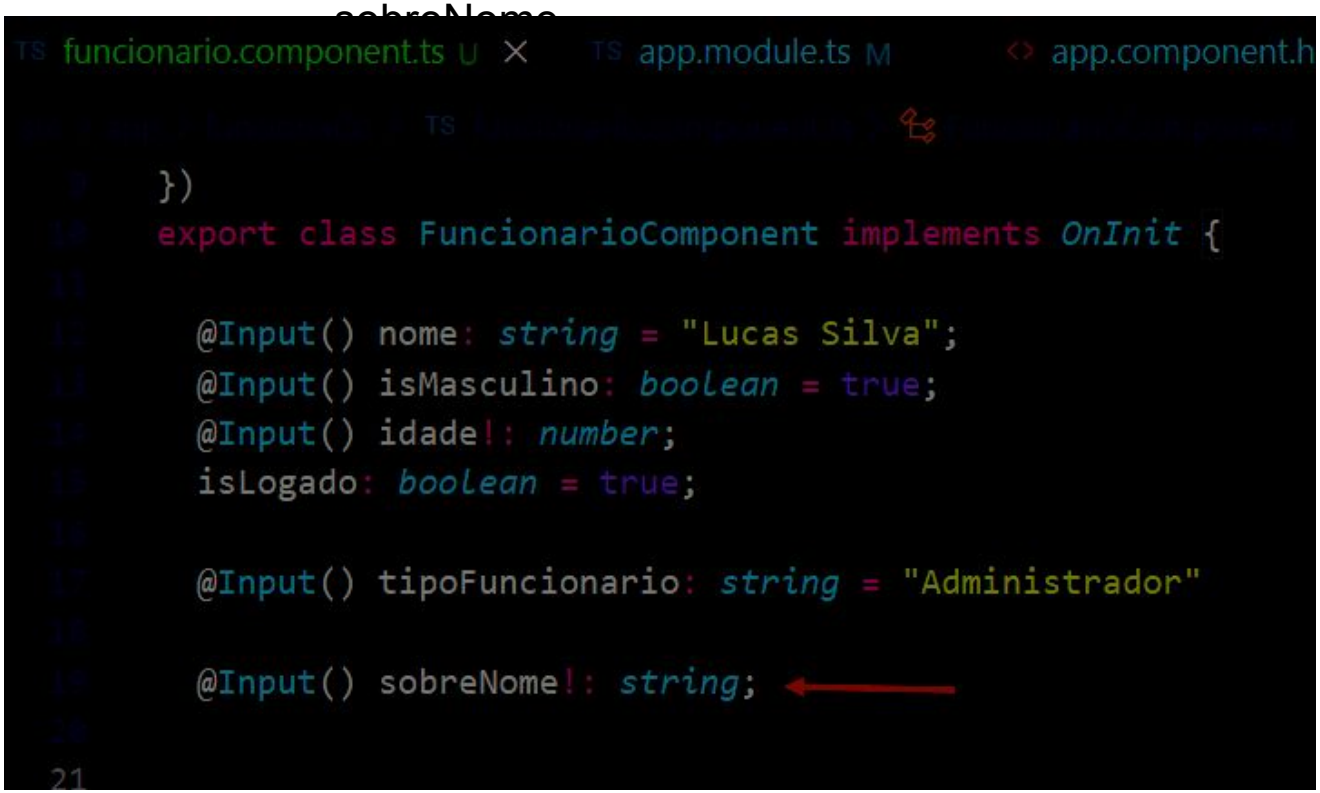


Diretiva ngModel

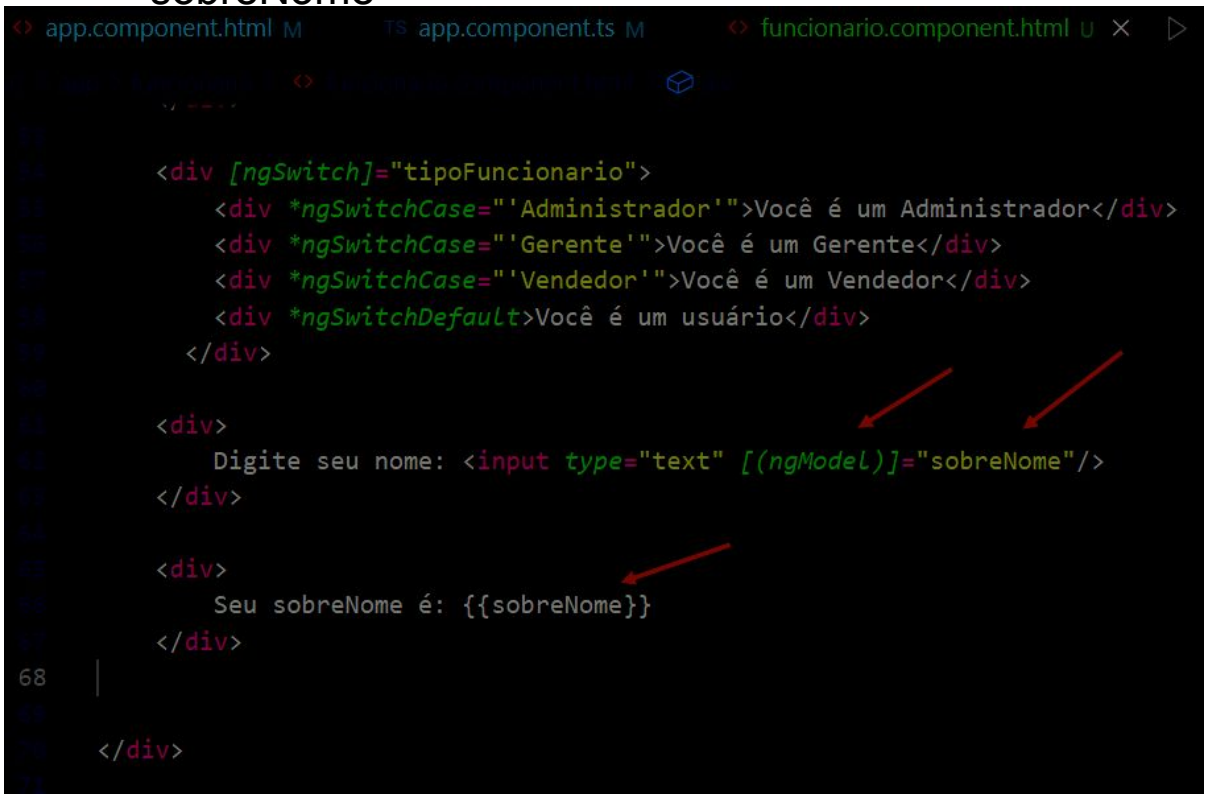
Para usar o ngModel precisando importar o FormsModule no arquivo app.module.ts

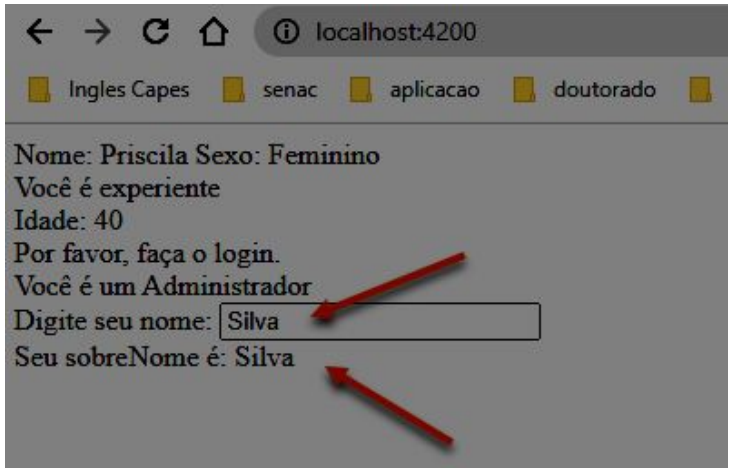


Criando uma variavel sobreNome



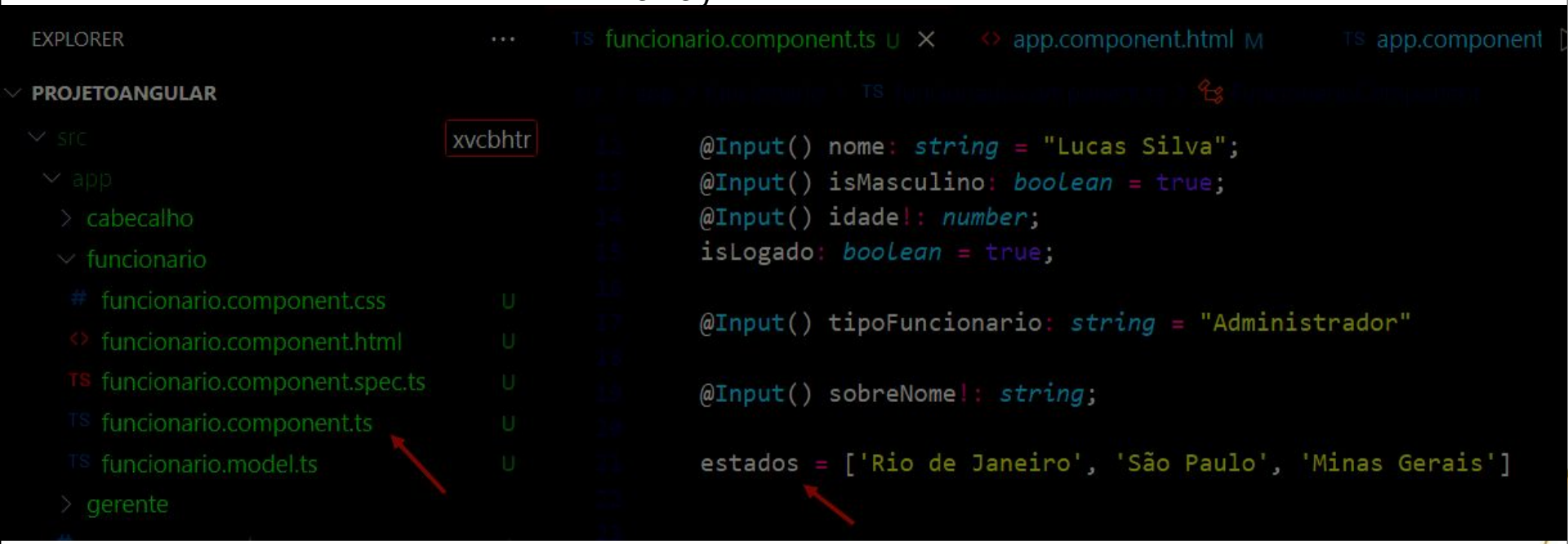
Usando ngModel para linkar a variavel sobreNome

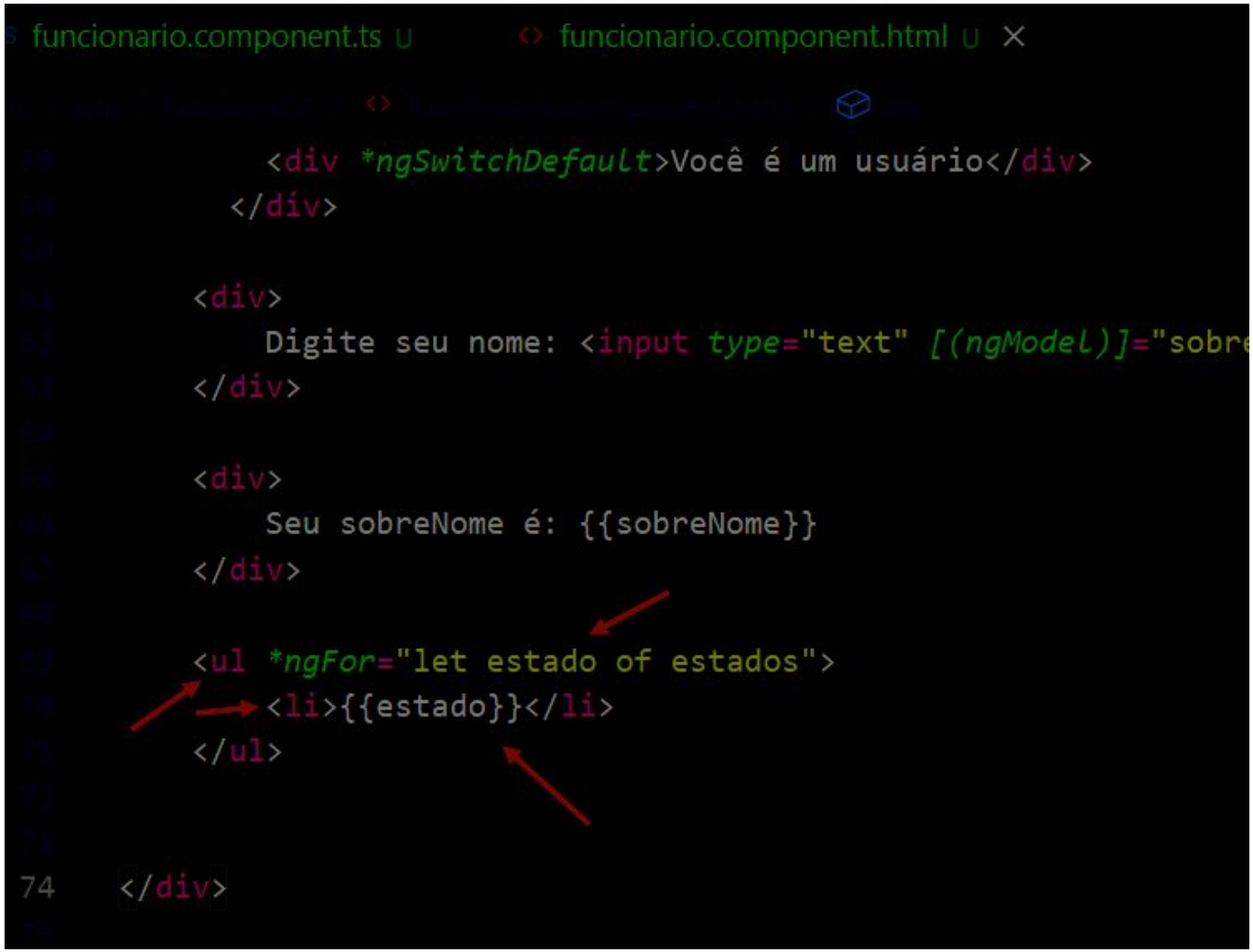



localhost:4200
Ingles Capes
senac
aplicacao
doutorado
Nome: Priscila Sexo: Feminino
Você é experiente
Idade: 40
Por favor, faça o login.
Você é um Administrador
Digite seu nome: Silva
Seu sobreNome é: Silva

Diretiva
ngFor

Criando um array



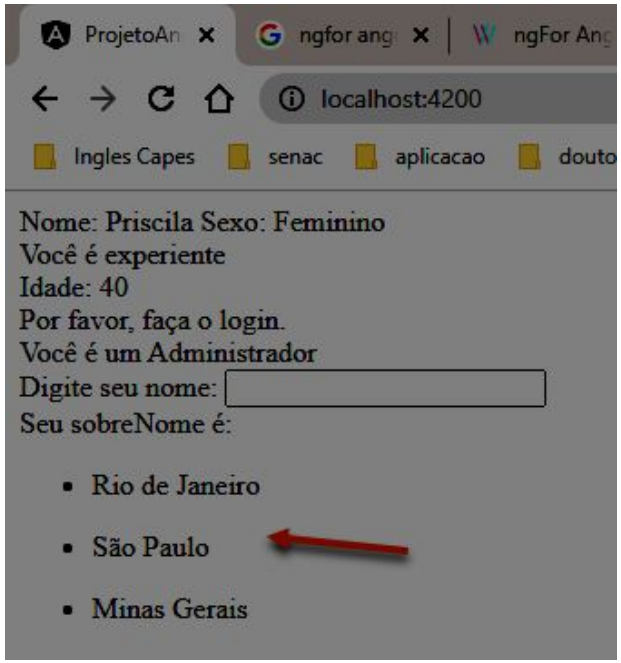

funcionario.component.ts U
funcionario.component.html U
<div *ngSwitchDefault>Você é um usuário

Digite seu nome: <input type="text" [(ngModel)]="sobre

Seu sobreNome é: {{sobreNome}}

<ul *ngFor="let estado of estados">
{{estado}}

74


ProjetoAn
ngfor ang
ngFor Ang
localhost:4200
Ingles Capes
senac
aplicacao
douto
Nome: Priscila Sexo: Feminino
Você é experiente
Idade: 40
Por favor, faça o login.
Você é um Administrador
Digite seu nome:
Seu sobreNome é:
Rio de Janeiro
São Paulo
Minas Gerais

Fazendo um array com objetos


funcionario.component.ts U
funcionario.component.html U
@Input() tipoFuncionario: string = "Administrador"
@Input() sobreNome!: string;
estados = ['Rio de Janeiro', 'São Paulo', 'Minas Gerais']
tiposPessoa = [
{id: 1, descricao: 'Carioca'},
{id: 2, descricao: 'Paulista'},
{id: 3, descricao: 'Mineiro'},
]

funcionario.component.ts U funcionario.component.html U

```
        </div>

        <div>
            Seu sobreNome é: {{sobreNome}}
        </div>

        <ul *ngFor="let estado of estados">
            <li >{{estado}}</li>

        </ul>

        <ul *ngFor="let tipo of tiposPessoa">
            <li >{{tipo.descricao}}</li>

        </ul>


    </div>
```

Nome: Priscila Sexo: Feminino
Você é experiente
Idade: 40
Por favor, faça o login.
Você é um Administrador
Digite seu nome:
Seu sobreNome é:

- Rio de Janeiro
- São Paulo
- Minas Gerais
- Carioca
- Paulista
- Mineiro

Trabalhando com comboBox

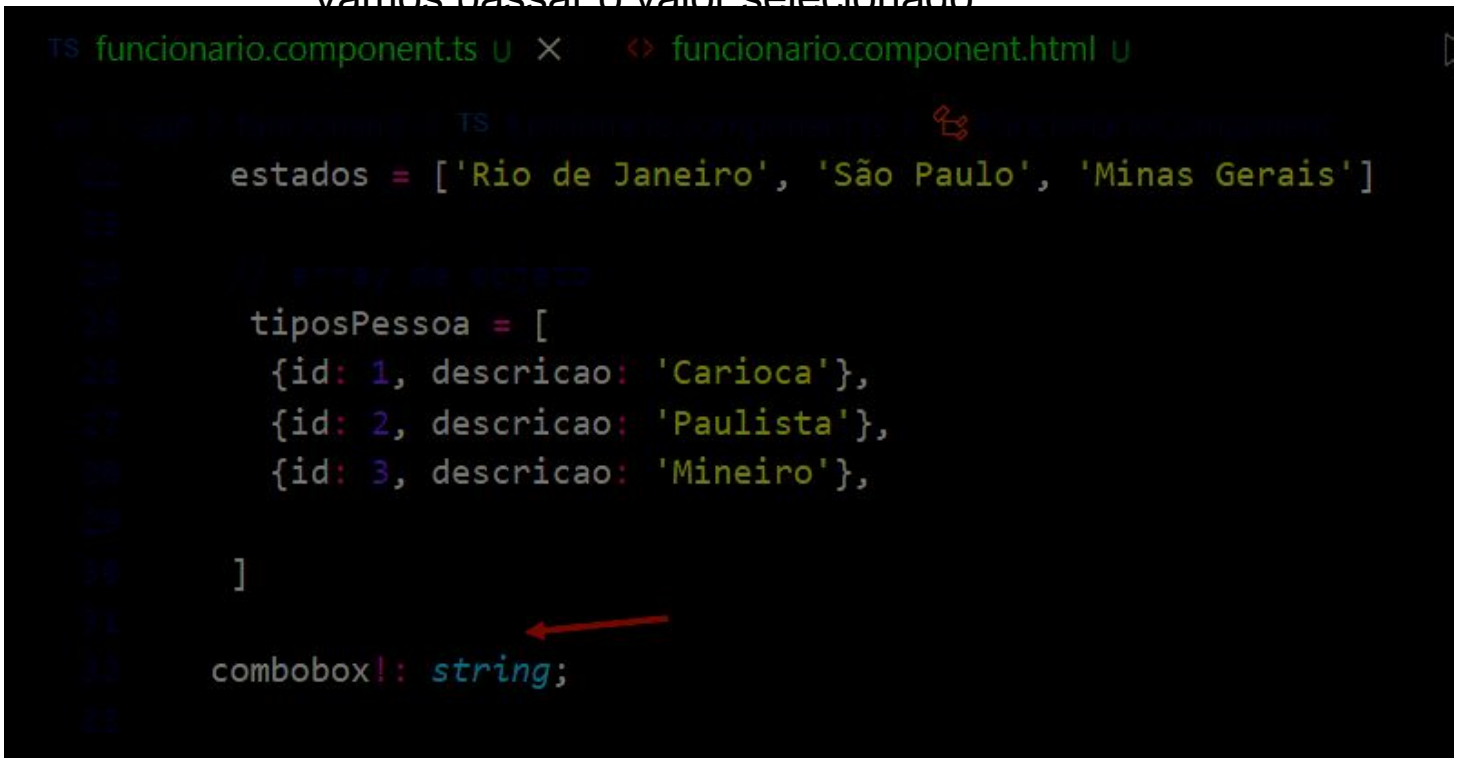

funcionario.component.ts U
funcionario.component.html U

<ul *ngFor="let tipo of tiposPessoa">
{{tipo.descricao}}

<select>
<option *ngFor="let estado of estados">
{{estado}}
</option>
</select>
86

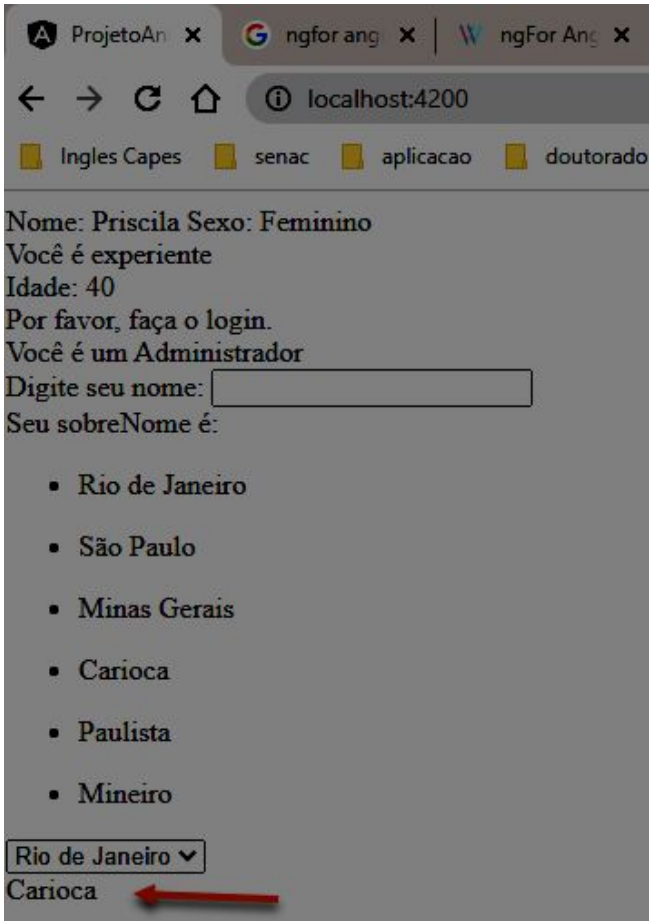
Trabalhando com select , nfSwitch e ngFor

Definindo uma váriavel que vai ser por onde
Vamos passar o valor selecionado




funcionario.component.ts U
funcionario.component.html U

<select [(ngModel)] = "combobox">
<option *ngFor="let estado of estados" [value]="estado">
{{estado}}
</option>
</select>
<div [ngSwitch]="combobox">
<div *ngSwitchCase="'Rio de Janeiro'">Carioca
<div *ngSwitchCase="'São Paulo'">Paulista
<div *ngSwitchCase="'Minas Gerais'">Mineiro


ProjetoAn
ngfor ang
ngFor Ang
localhost:4200
Ingles Capes
senac
aplicacao
doutorado
Nome: Priscila Sexo: Feminino
Você é experiente
Idade: 40
Por favor, faça o login.
Você é um Administrador
Digite seu nome:
Seu sobreNome é:
Rio de Janeiro
São Paulo
Minas Gerais
Carioca
Paulista
Mineiro
Rio de Janeiro
Carioca

Trabalhando com
Objetos

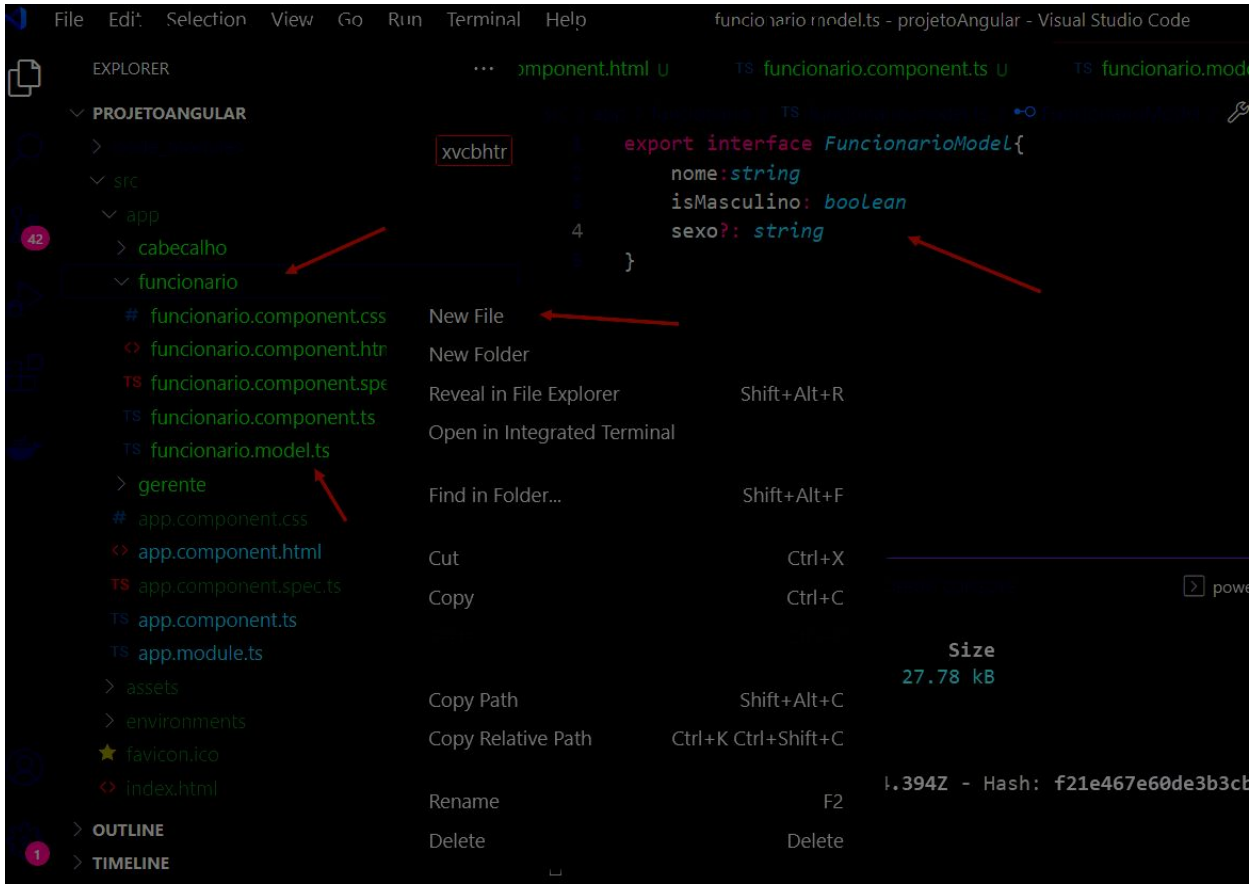
Criando um projeto novo

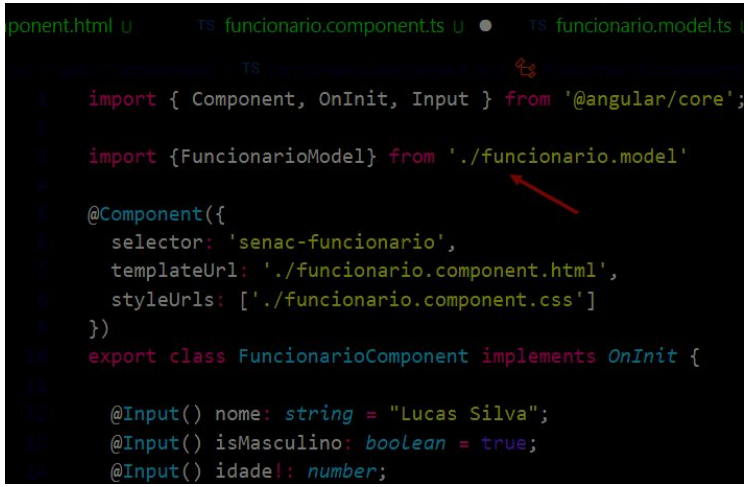
```
C:\Users\marce>ng new projetoAngular --prefix=senac
```

Criando um componente funcionario

```
D:\marcelo\senac\tecnologiaweb3\projetoAngular>ng g c funcionario
```

Clicar no botão direito em cima do funcionario
Colocar new file e colocar o nome funcionario.model.ts






```
funcionarios: FuncionarioModel[] = [
 {nome: 'Joao', isMasculino: true, sexo:'Masculino'},
 {nome: 'Flavia', isMasculino: false, sexo:'Feminino'}
]
```


funcionario.component.html U
app.component.ts M
funcionario.comp
<div [ngSwitch]="combobox">
<div *ngSwitchCase="'Rio de Janeiro'">Carioca
<div *ngSwitchCase="'São Paulo'">Paulista
<div *ngSwitchCase="'Minas Gerais'">Mineiro

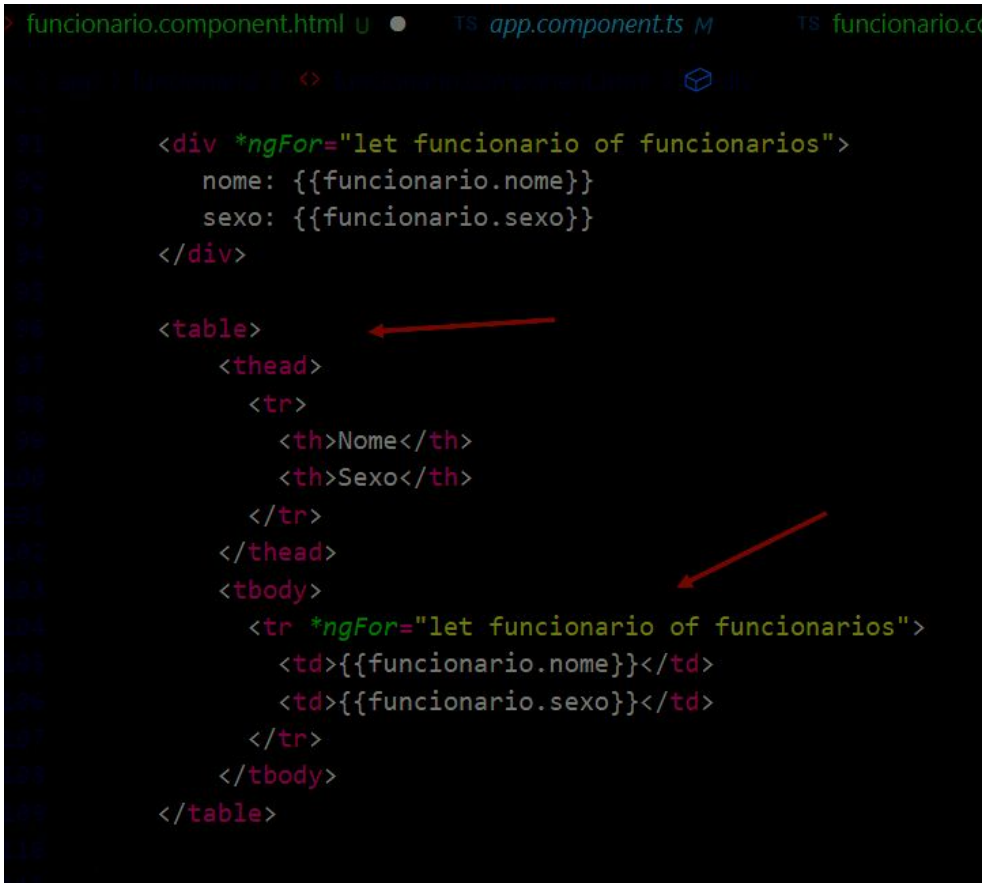
<div *ngFor="let funcionario of funcionarios">
nome: {{funcionario.nome}}
sexo: {{funcionario.sexo}}

Nome: Priscila Sexo: Feminino
Você é experiente
Idade: 40
Por favor, faça o login.
Você é um Administrador
Digite seu nome:
Seu sobreNome é:

- Rio de Janeiro
- São Paulo
- Minas Gerais
- Carioca
- Paulista
- Mineiro

nome: Joao sexo: Masculino
nome: Flavia sexo: Feminino

Vamos melhorar usando uma tabela

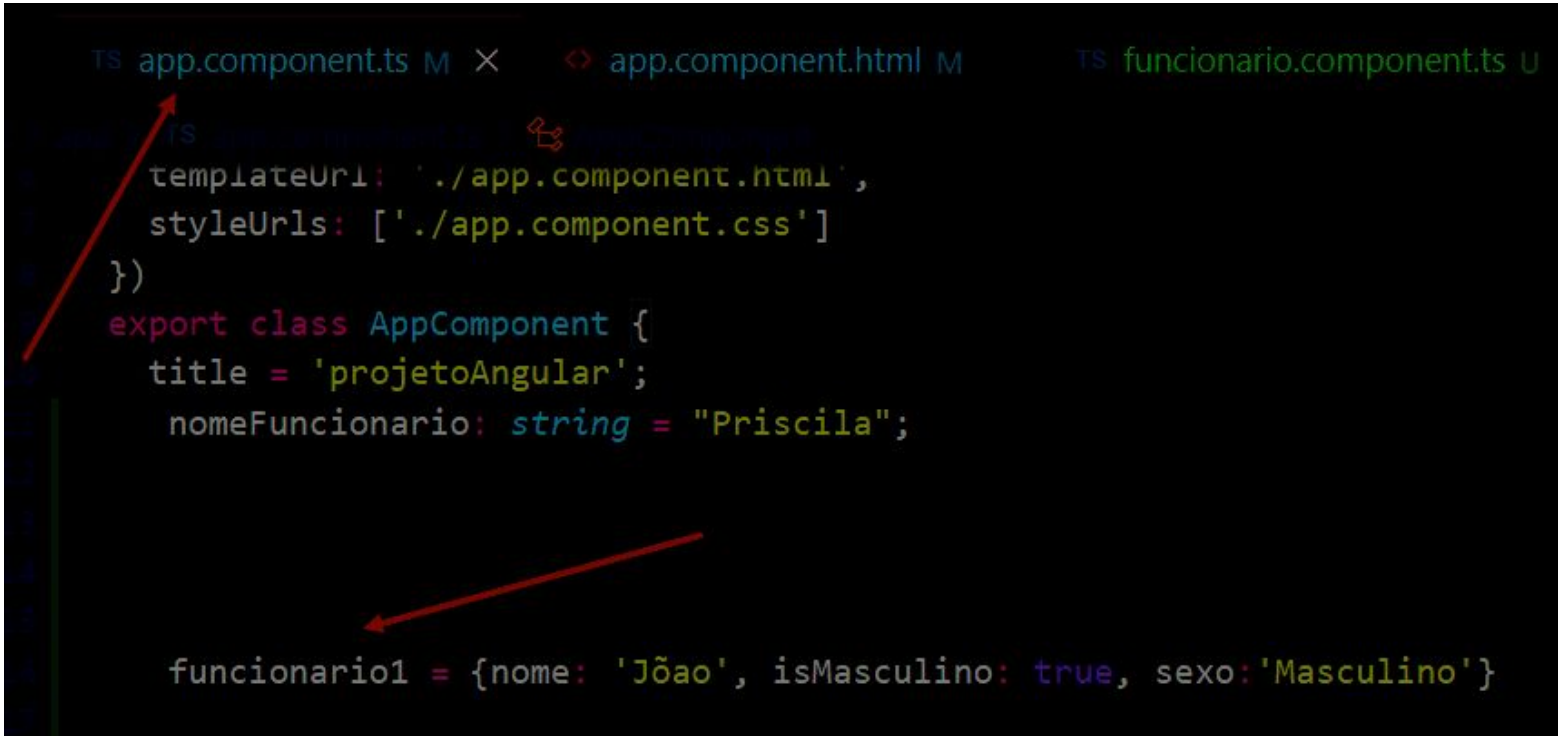

funcionario.component.html U
app.component.ts M
<div *ngFor="let funcionario of funcionarios">
nome: {{funcionario.nome}}
sexo: {{funcionario.sexo}}

<table>
<thead>
<tr>
<th>Nome</th>
<th>Sexo</th>
</tr>
</thead>
<tbody>
<tr *ngFor="let funcionario of funcionarios">
<td>{{funcionario.nome}}</td>
<td>{{funcionario.sexo}}</td>
</tr>
</tbody>
</table>

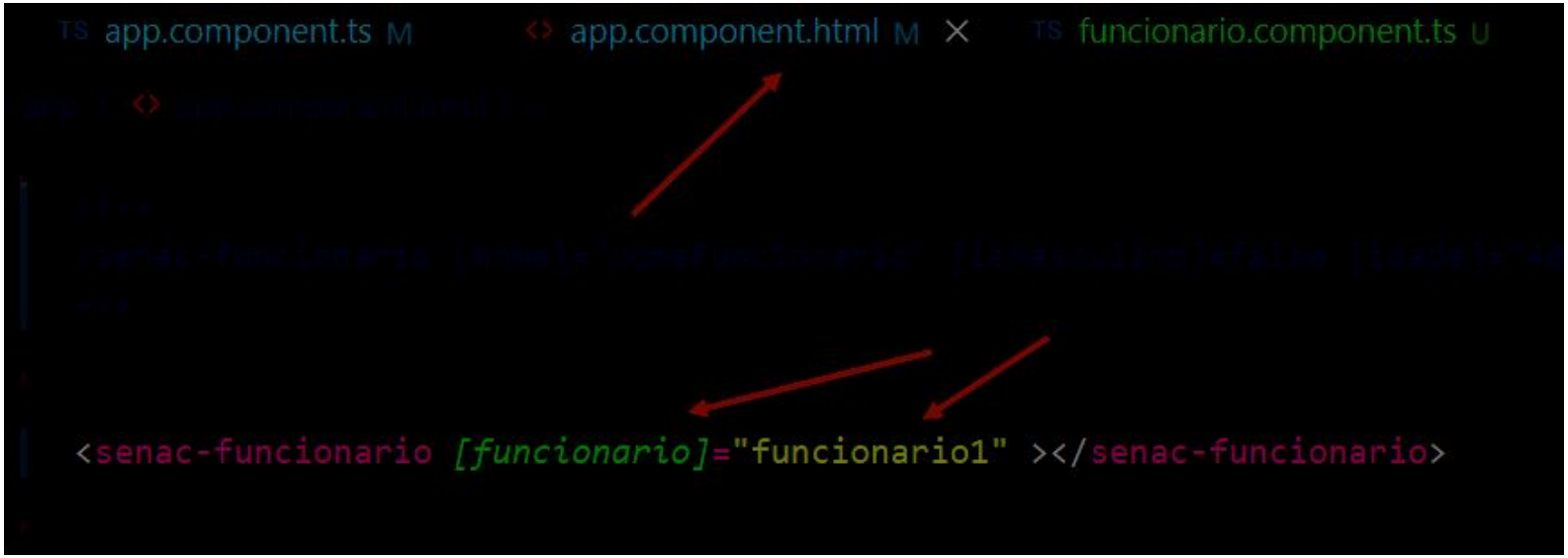
Passando Objeto entre os componentes

Criando a variavel que será usada para trafegar as informações entre os componentes

Variavél que esta sendo utilizada para passar as informações para o componente do funcionário



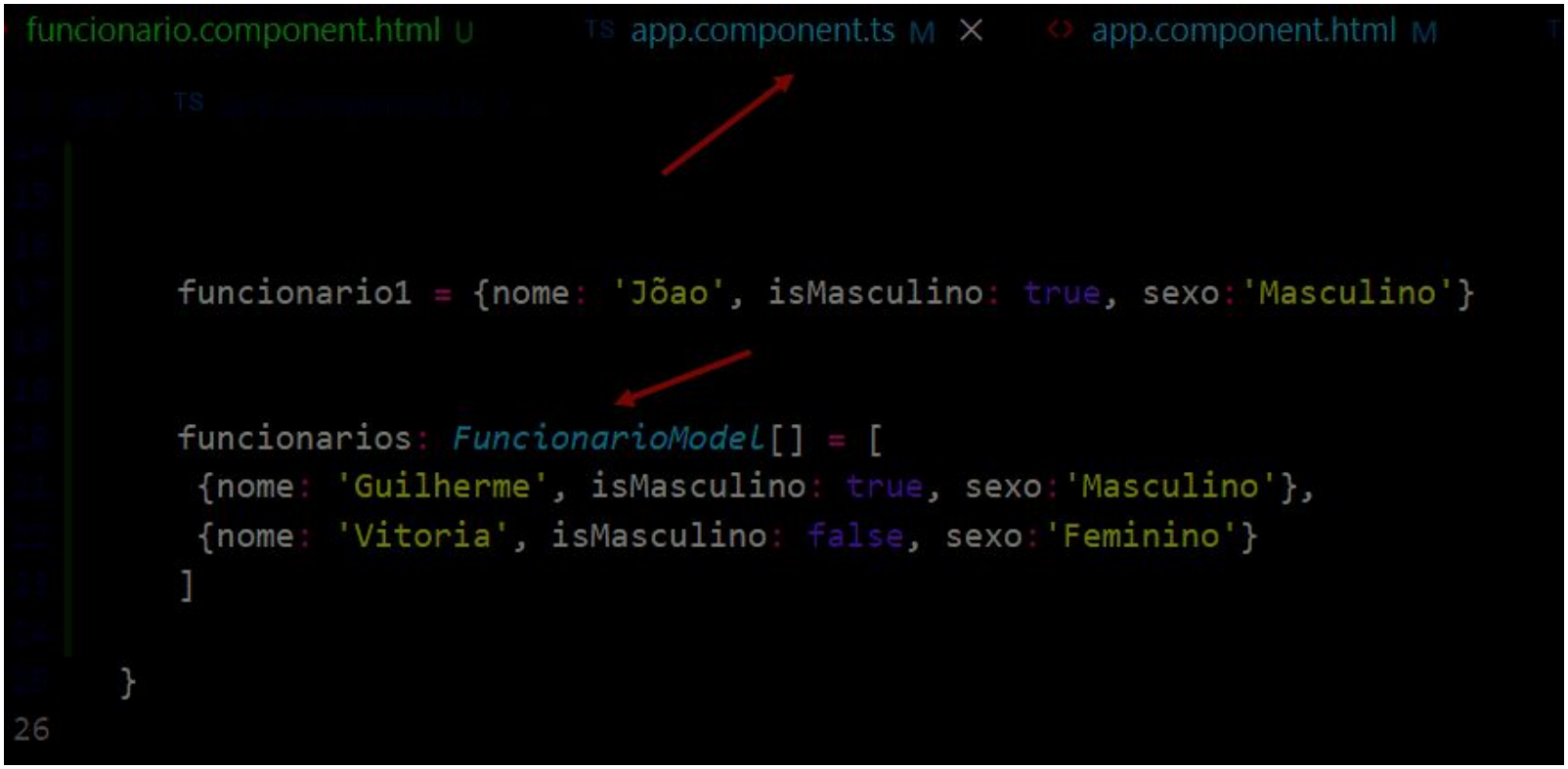
No app.component.html iremos passar os valores que estão na variável funcionario1
Para o componente funcionado pela variavel funcionario



Usando os valores do funcionario passado no html do funcionario.component

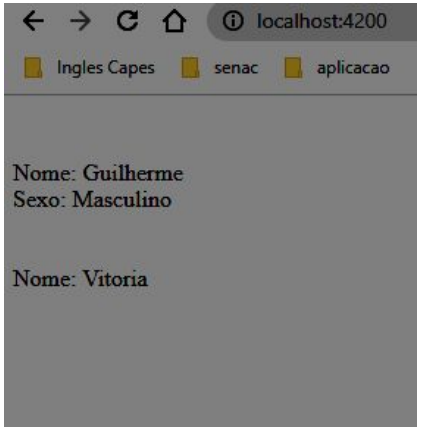
Iteração de um componente

Fazer uma copia do funcionario.component.html
Porque não vamos precisar de todo o código
Só vamos deixar o codigoa ao lado no


funcionario.component.html U
app.component.ts M
app.component.html M
funcionario1 = {nome: 'Jõao', isMasculino: true, sexo:'Masculino'}
funcionarios: FuncionarioModel[] = [
{nome: 'Guilherme', isMasculino: true, sexo:'Masculino'},
{nome: 'Vitoria', isMasculino: false, sexo:'Feminino'}
]
}
26

funcionario.component.html U app.component.ts M app.component.html M funcionario.component.ts U

```
<senac-funcionario  *ngFor="let func of funcionarios" [funcionario]="func"></senac-funcionario>
```

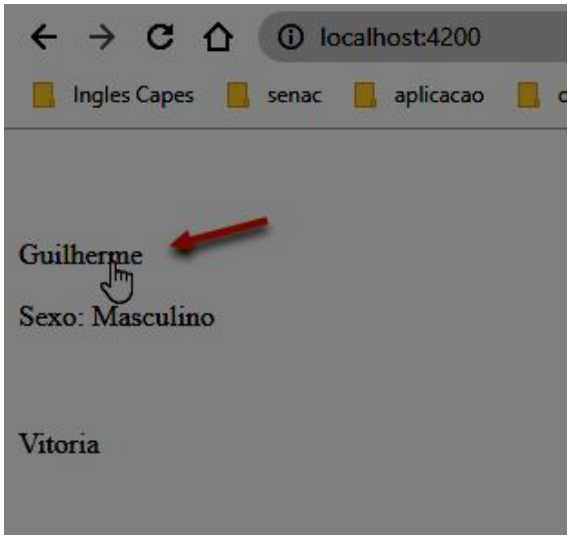


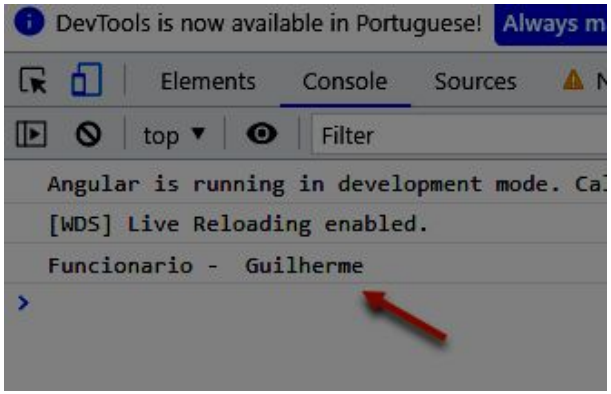
Trabalhando com Eventos


funcionario.component.html U
app.component.ts M
app.component.html M
funcionario.component.ts U
constructor() { }
ngOnInit(): void {
}
clicado():void{
console.log(`Funcionario - ${this.funcionario.nome}`)
}
}

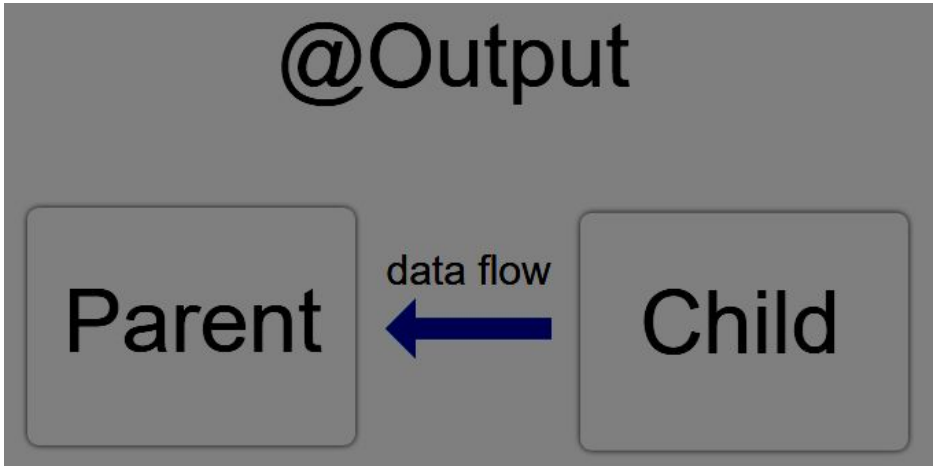

funcionario.component.html U
app.component.ts M
app.component.html M
funcionario.co

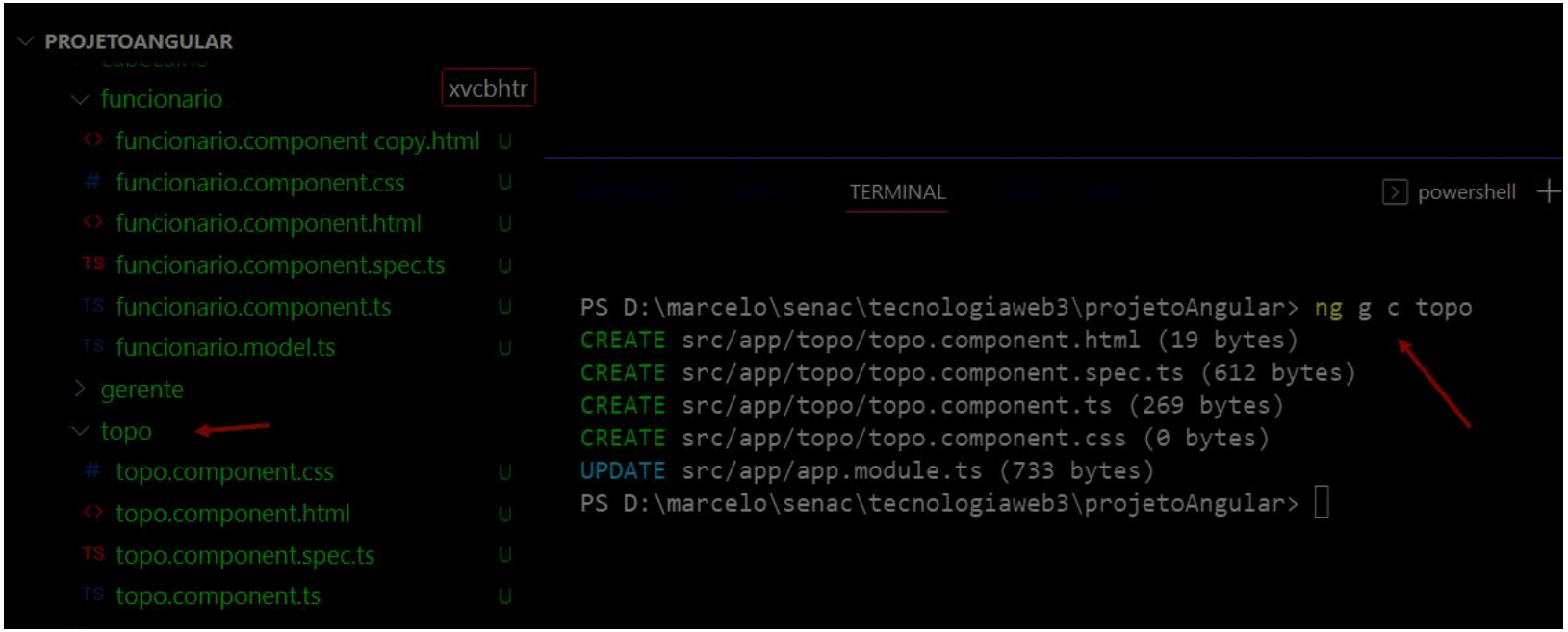
{{funcionario.nome}}
<div *ngIf="funcionario.isMasculino">
Sexo: Masculino


localhost:4200
Ingles Capes
senac
aplicacao
Guilherme
Sexo: Masculino
Vitoria


DevTools is now available in Portuguese!
Always m
Elements
Console
Sources
top
Filter
Angular is running in development mode. Ca
[WDS] Live Reloading enabled.
Funcionario - Guilherme

Passando dados do componente filho para o Pai




PROJETOANGULAR
xvcbhtr
funcionario
funcionario.component copy.html U
funcionario.component.css U
funcionario.component.html U
funcionario.component.spec.ts U
funcionario.component.ts U
funcionario.model.ts U
gerente
topo
topo.component.css U
topo.component.html U
topo.component.spec.ts U
topo.component.ts U
TERMINAL
powershell
PS D:\marcelo\senac\tecnologiaweb3\projetoAngular> ng g c topo
CREATE src/app/topo/topo.component.html (19 bytes)
CREATE src/app/topo/topo.component.spec.ts (612 bytes)
CREATE src/app/topo/topo.component.ts (269 bytes)
CREATE src/app/topo/topo.component.css (0 bytes)
UPDATE src/app/app.module.ts (733 bytes)
PS D:\marcelo\senac\tecnologiaweb3\projetoAngular>

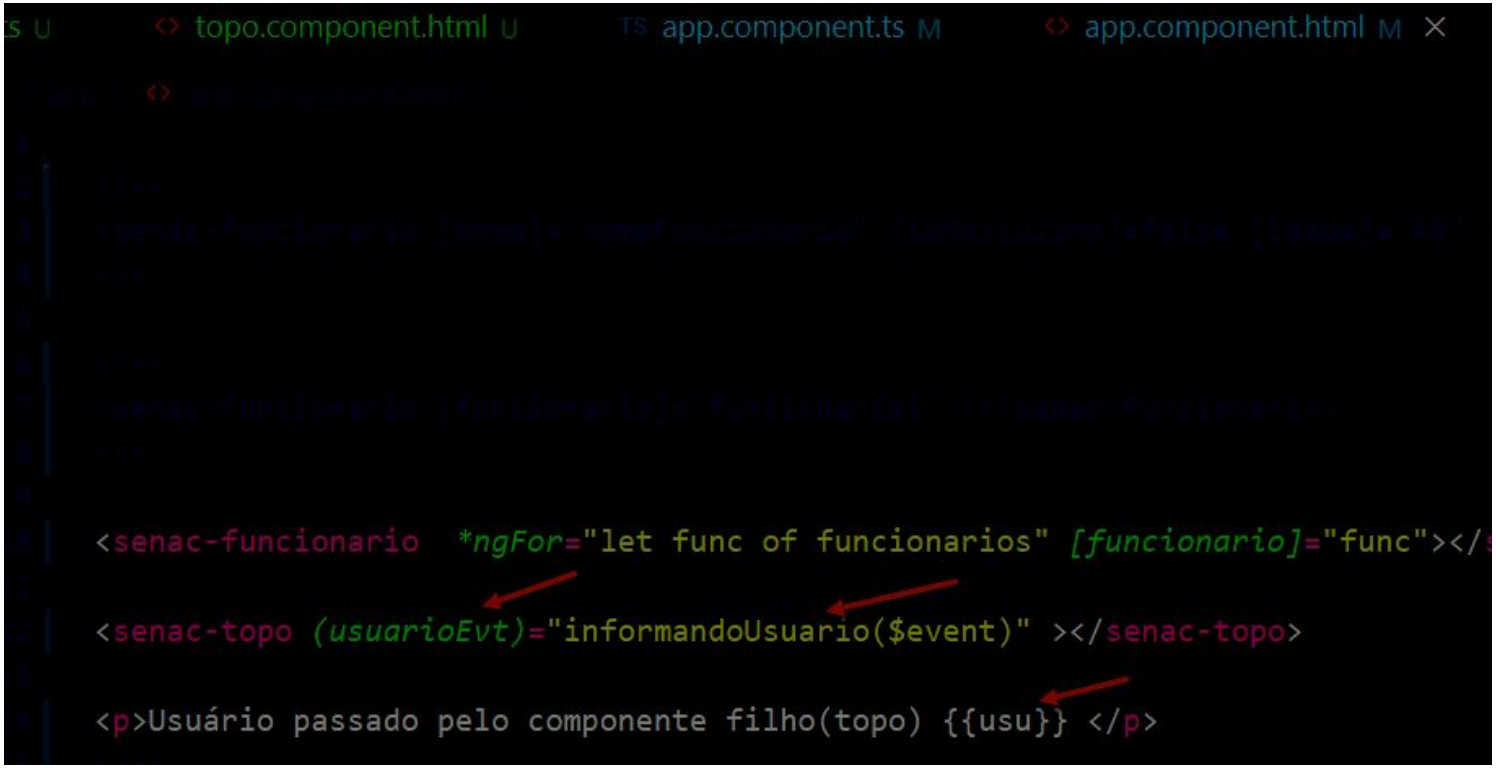

topo.component.ts U
import { Component, EventEmitter, OnInit, Output } from '@angular/core';
@Component({
selector: 'senac-topo',
templateUrl: './topo.component.html',
styleUrls: ['./topo.component.css']
})
export class TopoComponent implements OnInit {
constructor() { }
ngOnInit(): void {
}
@Output() usuarioEvt = new EventEmitter();
definindoUsuario(nome: string){
this.usuarioEvt.emit(nome);
}
}

topo.component.ts U topo.component.html U

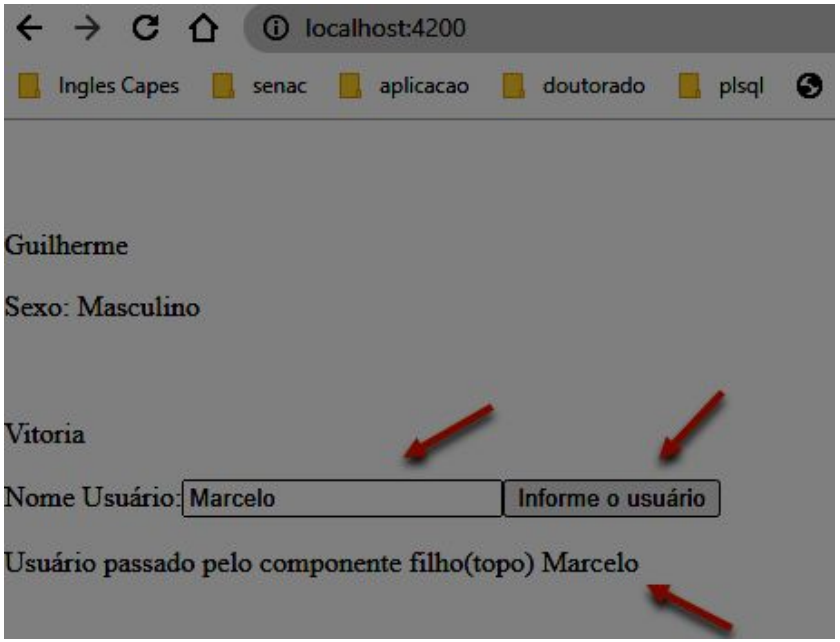
```
<label for="lbusuario">Nome Usuário:</label>
<input type="text" id="lbusuario" #novoUsuario>
<button type="button" (click)="definindoUsuario(novoUsuario.value)">
    Informe o usuário
</button>
```

Quando a função definindoUsuario for acionada, será chamado o usuarioEvt


mponent.ts U
topo.component.html U
app.component.ts M
funcionarios: FuncionarioModel[] = [
{nome: 'Guilherme', isMasculino: true, sexo:'Masculi
{nome: 'Vitoria', isMasculino: false, sexo:'Feminino
]
usu!: string;
informandoUsuario(usuario: string){
this.usu = usuario;
}
}



Quando o usuarioEvt for acionado vai chamar a função informandoUsuario passando
O valor que foi passado no usuarioEvt. Nesse caso o nome.
Dentro da função informandoUsuario estamos setando o valor passado no usuarioEvt
Para a variavel usu. Assim, conseguimos utilizar no componente pai


localhost:4200
Ingles Capes
senac
aplicacao
doutorado
plsql
Guilherme
Sexo: Masculino
Vitoria
Nome Usuário:
Marcelo
Informe o usuário
Usuário passado pelo componente filho(topo) Marcelo