Criando um app Angular e consumindo uma API REST [1 de 3]

https://medium.com/@andrewchanm/criando-um-app-angular-7-e-consumindo-uma-api-rest-1-de-3-7169d90ed8c1

Olá pessoal, sou o Andrew desenvolvedor .net, sempre pensei em compartilhar meu conhecimento, esse é minha primeira série de posts e escolhi Angular , então podem fazer críticas e sugestões, será muito bom o feedback.

Vamos lá primeiro post, vou mostrar como criar uma aplicação em Angular 7 em alguns passos, acredito que vai ser em três partes, vou ser mais prático, vou deixar alguns links úteis no final do post que podem ajudar, bom chega de papo, vamos ao código!!!

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1. Instalando o Angular CLI

```
npm install -g @angular/cli
```

depois de instalar: (deve estar nessa versão)

```
ng version

Angular CLI: 10.1.0
Node: 12.18.3
OS: win32 x64
```

Agora vamos criar nossa aplicação com o nome lista-crud-app

```
ng new CadastroVeicular
```

algumas perguntas coloque “y” e “scss”, aqui estamos dizendo que queremos que nossa aplicação tenha rotas e para que use o sass como formato de estilo da aplicação(compilador css).

```
? Would you like to add Angular routing? Yes
? Which stylesheet format would you like to use? SCSS   [http://sass-lang.com   ]
```

agora vamos entrar na nossa pasta e rodar aplicação, para ver se está tudo certo!

```
cd CadastroVeicular
```

em seguida, comando para rodar nossa app, por padrão ela abre no http://localhost:4200, ficará conforme abaixo(imagem 1):

```
ng serve
```

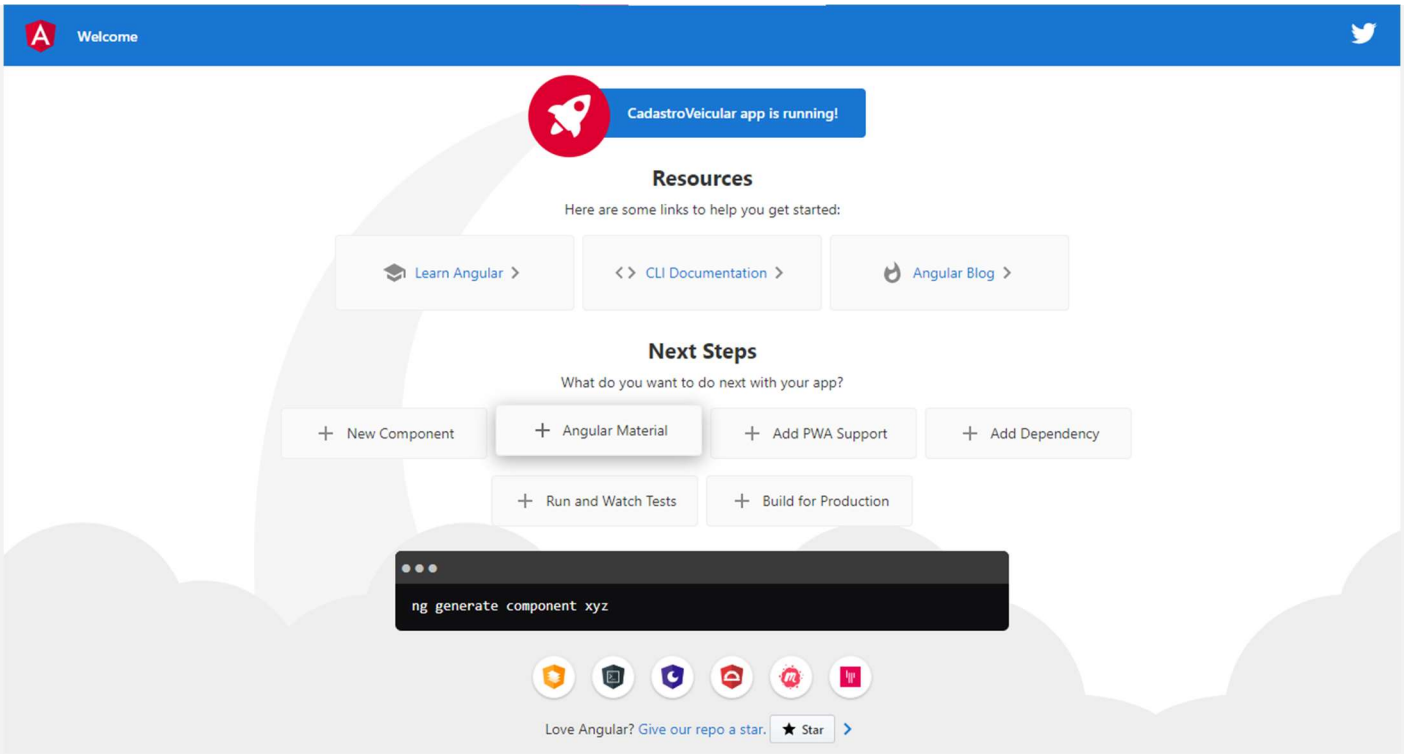

Imagem 1

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2. Criando os nossos Componentes

Abra seu projeto em um editor, eu uso o Atom

Projeto aberto no Atom

Com o projeto em aberto, tecle CTRL + ‘ (tecla abaixo do ESC) para abrir o Terminal:

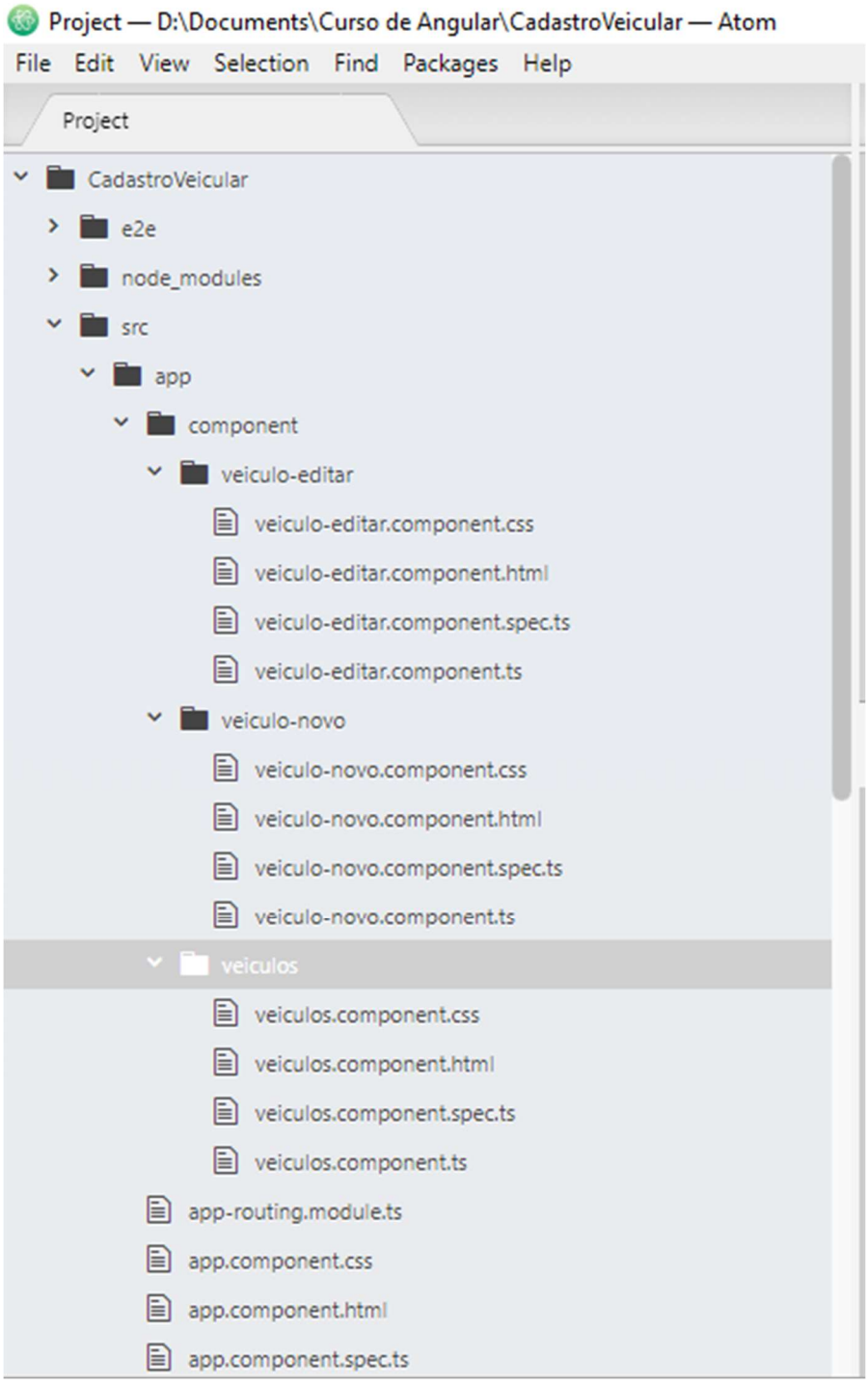
```
ng g c component/veiculos
ng g c component/veiculo-novo
ng g c component/veiculo-editar
```

aqui nós criamos o serviço e os componentes que precisamos para a nossa app tenha um CRUD (Create, Read, Update, Delete).

O Angular CLI provê um conjunto de comandos que permitem criar todos os artefatos do Angular, como diretivas, componentes, pipes e muitos outros. A sintaxe básica para isso é:

```
ng generate <tipo do artefato> <nome>
```

Nota: Para executar um comando desse tipo, você deve estar dentro do diretório do projeto.



Podemos ver que foi criado uma pasta para cada componente.

Abra o arquivo “src/app/app.module.ts”

```
import { BrowserModule } from '@angular/platform-browser';
import { NgModule } from '@angular/core';

import { FormsModule, ReactiveFormsModule  } from '@angular/forms';
import { HttpClientModule } from '@angular/common/http';

import { AppRoutingModule } from './app-routing.module';
import { AppComponent } from './app.component';
import { VeiculosComponent } from
'./component/veiculos/veiculos.component';
import { VeiculoNovoComponent } from './component/veiculo-novo/veiculo-
novo.component';
import { VeiculoEditarComponent } from './component/veiculo-editar/veiculo-
editar.component';

@NgModule({
  declarations: [
    AppComponent,
    VeiculosComponent,
    VeiculoNovoComponent,
    VeiculoEditarComponent
  ],
  imports: [
    BrowserModule,
    AppRoutingModule,
    FormsModule,
    ReactiveFormsModule,
    HttpClientModule
  ],
  providers: [],
  bootstrap: [AppComponent]
})
export class AppModule { }
```

Componentes foram declarados no módulo

Ao realizar a criação dos componentes o próprio angular já importa e declara os componentes para nós, menos trabalho, mas é importante saber que sempre que temos um novo componente deve importar para o modulo que precisará injetar esse componente no contexto.

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3. Configurando as Rotas

O componente de rotas já foi adicionado quando criamos o app, então só precisamos configurar ele, com os nosso componentes.

Vamos abrir o “src/app/app-routing.module.ts” e adicionar os seguintes imports.

```
import { VeiculosComponent } from
'./component/veiculos/veiculos.component';
import { VeiculoNovoComponent } from './component/veiculo-novo/veiculo-
novo.component';
import { VeiculoEditarComponent } from './component/veiculo-editar/veiculo-
editar.component';
```

e nossa constante array de rotas.

```
const routes: Routes = [
  { path: '', redirectTo: 'veiculos', pathMatch: 'full' },
  { path: 'veiculos', component: VeiculosComponent },
  { path: 'veiculos/:id', component: VeiculoEditarComponent },
  { path: 'veiculo-novo', component: VeiculoNovoComponent },
  { path: 'veiculo-editar', component: VeiculoEditarComponent }
];
```

abra e edite “src/app/app.component.html”, vemos que já tem o <router-outlet></router-outlet>

```
<div>
  <nav class="navbar navbar-expand navbar-dark bg-dark">
    <a class="navbar-brand" href="#"> <img
      width="40"
      alt="Tinnova"

src="
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```

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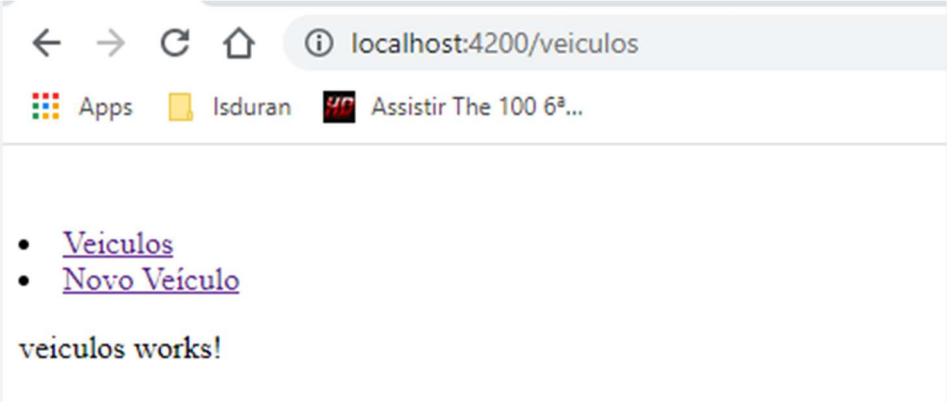
Y2ODEzLC0wLjA4NiA2LjgzODk0LC0wLjA4NiAwLjczNDY0LDAgMS45MTI3LC0wLjIxMzMzIDIuN
TUyNDcsMC4yMjY3OSAwLjc1NDQ5LDAuNTIwNjQgMC41MzgyOSwxLjg1NTExIDAuNTM2MDksMi42
NDExNSAtMC4wMDQsMi41NTY4OCAtMC43MDU5Niw0LjgxODM2IC0zLjUyOTc4LDUuNDI5MjQgLTI
uMzgwMzksMC41MTQ2OCAtNi44MzIzMiwwLjU5ODk2IC04Ljc4NjkzLC0wLjk3MDQ3IC0zLjAxNT
c2LC0yLjQyMzg1IC0wLjg2OTIxLC02LjU1MTkzIDIuMzg5MjEsLTcuMjQwNjcgeiIKICAgICAgI

```
HN0eWxlPSJmaWxsOiNmZmZmZmY7c3Ryb2tlOm5vbmU7c3Ryb2tlLXdpZHRoOjAuMjIwNjExIiAv
PgogIDwvZz4KPC9zdmc+Cg=="
    /></a>
    <div class="navbar-nav mr-auto">
      <li class="nav-item"><a routerLink="veiculos" class="nav-
link">Veiculos</a></li>
      <li class="nav-item"><a routerLink="veiculo-novo" class="nav-
link">Novo Veículo</a></li>
    </div>
  </nav>
  <div class="container mt-3">
    <router-outlet></router-outlet>
  </div>
</div>
```

Agora podemos ficar navegando entre essas rotas, rode novamente(ng serve) e teste, ficará assim.



4.Considerações Finais

Bom aqui nós conseguimos criar um app com rotas.

No próximo artigo irei adicionar o Bootstrap para dar um “show” no front-end, adicionar nossa service para acessar a nossa Api REST(criarei em um outro post)

Fiquem ligados!

É triste mas voltarei em breve com a Parte 2, fico a disposição a perguntas e dúvidas, abraços

Referências

Documentação Oficial Angular

Link sobre Rotas

O que é REST?

Criando Artefatos