

Desenvolvimento de Software para Web



UFC - Universidade Federal do Ceará

André Meireles
andre@crateus.ufc.br

SPA - Frontend com Angular



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Frameworks Javascript para SPA

Frameworks populares para desenvolvimento front-end de single-page applications:

- Vue.JS
- EmberJS
- React JS
- **Angular**

Angular - Conceitos

Referência: <https://angular.io/guide/what-is-angular>

- Componentes
- Templates
- Injeção de Dependência

Angular - Configuração e Ambiente

Referência: <https://angular.io/guide/setup-local>

Requisitos:

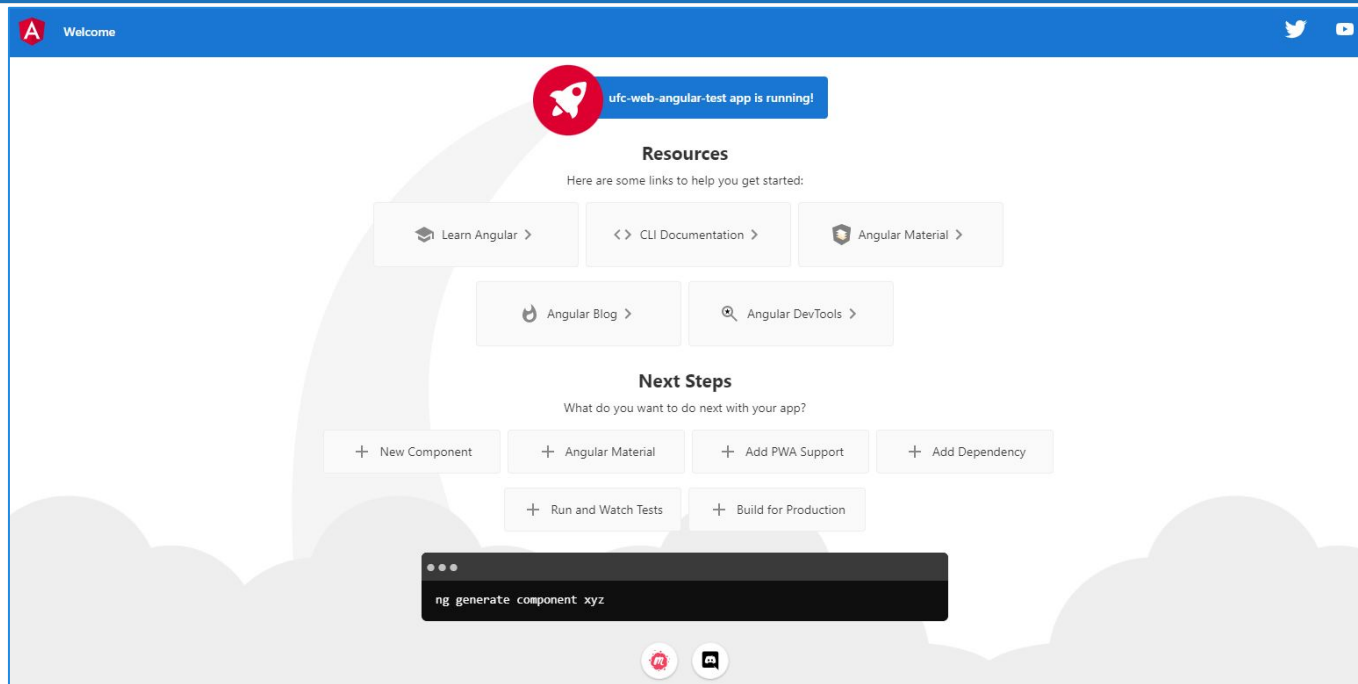
- Node
- NPM

Instale o Angular CLI globalmente no seu sistema e execute:

```
npm install -g @angular/cli  
ng new ufc-web-angular  
cd ufc-web-angular  
ng serve --open
```

Angular - Configuração e Ambiente

```
▼ UFC-WEB-ANGULAR-TEST [WSL: UBUNTU-20.04]
> .angular
> .vscode
> node_modules
▼ src
  ▼ app
    TS app-routing.module.ts U
    # app.component.css U
    <> app.component.html U
    TS app.component.spec.ts U
    TS app.component.ts U
    TS app.module.ts U
  > assets
  > environments
  ★ favicon.ico U
  <> index.html U
  TS main.ts U
  TS polyfills.ts U
  # styles.css U
  TS test.ts U
  .browserslistrc U
  .editorconfig U
  .gitignore U
  {} angular.json U
  {} karma.conf.js U
  {} package-lock.json U
  {} package.json U
  ① README.md U
  {} tsconfig.app.json U
  {} tsconfig.json U
  {} tsconfig.spec.json U
```



<http://localhost:4200/>

Tutorial - Tour of Products

Adaptação do tutorial [Tour of Heroes do Angular](#)

Leia toda a introdução para entender o funcionamento dos componentes básicos

Tutorial - Tour of Products

Adaptação do tutorial [Tour of Heroes do Angular](#)

Change the application title

Open the component class file (`app.component.ts`) and change the value of the `title` property to 'Tour of Heroes'.

`app.component.ts` (class title property)

```
title = 'Tour of Heroes';
```

Open the component template file (`app.component.html`) and delete the default template generated by the Angular CLI. Replace it with the following line of HTML.

`app.component.html` (template)

```
<h1>{{title}}</h1>
```



Spring - Habilitar CORS

Enabling Cross Origin Requests for a RESTful Web Service

```
@SpringBootApplication
public class SparesttestApplication {

    public static void main(String[] args) {
        SpringApplication.run(SparesttestApplication.class, args);
    }

    @Bean
    public WebMvcConfigurer corsConfigurer() {
        return new WebMvcConfigurer() {
            @Override
            public void addCorsMappings(CorsRegistry registry) {
                registry.addMapping("/api/*").allowedOrigins("http://localhost:4200");
            }
        };
    }
}
```



Configuração de Segurança

Links importantes

- <https://angular.io/>
- <https://spring.io/guides/gs/rest-service-cors/>