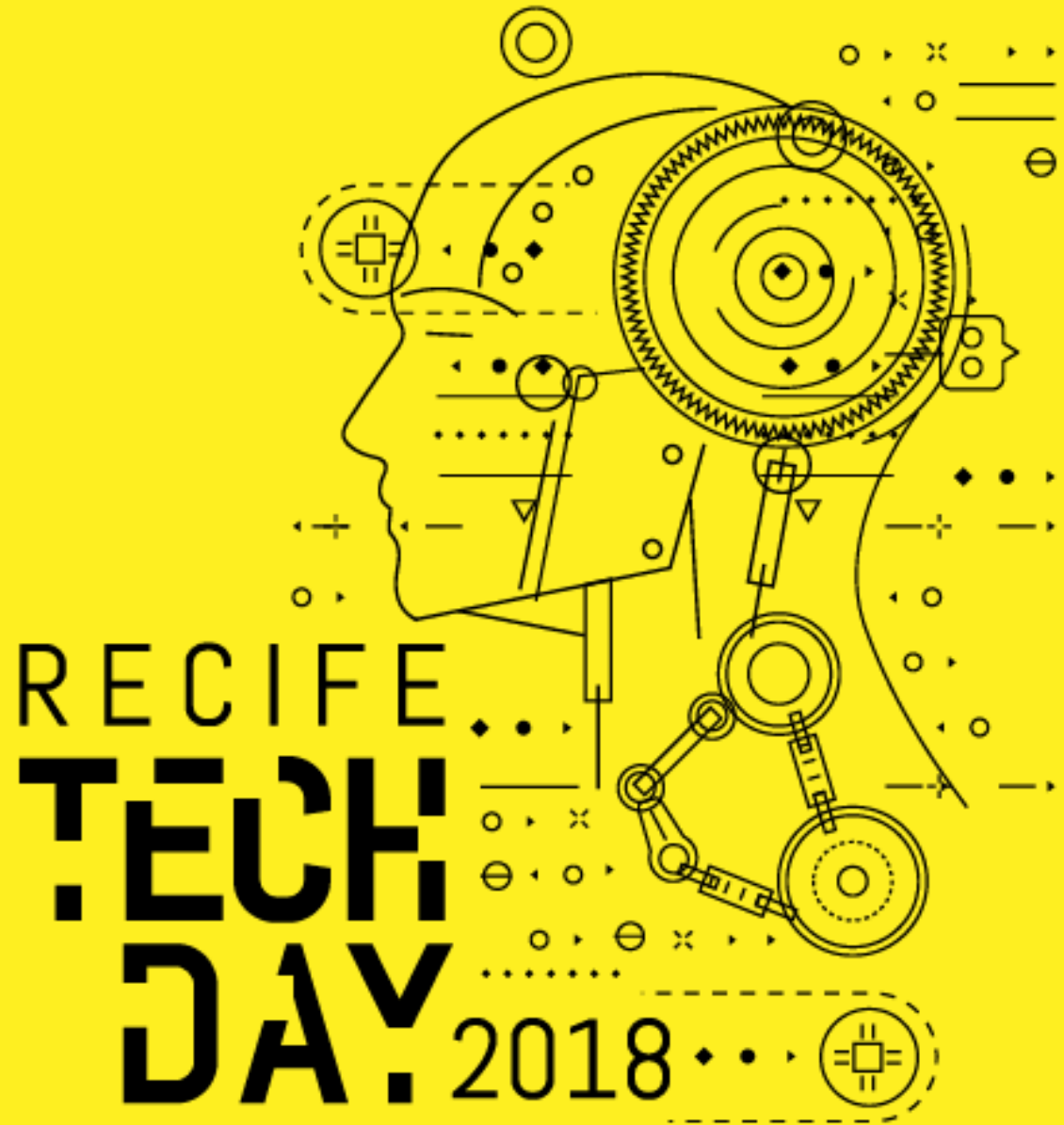


# Implementando uma lista de tarefas usando IONIC

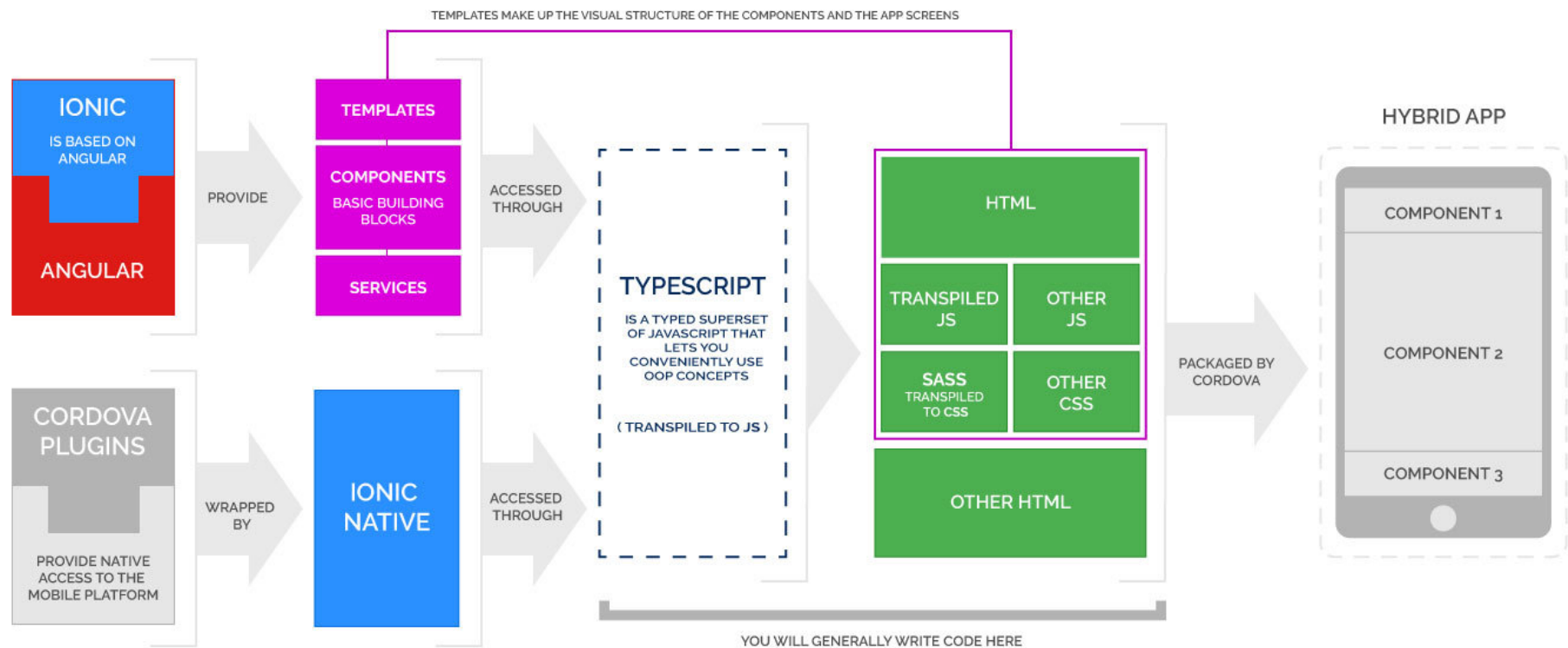


# Qual o público do evento?

Desenvolvedores que se interessem por desenvolvimento mobile e tenham conhecimento básico de HTML5, CSS/SCSS, TypeScript e Angular 2+

# O que é Ionic?

## A BIRD'S EYE VIEW OF IONIC AND RELATED TECHNOLOGIES ( FOR BEGINNERS )



# De qual ambiente preciso?

- NodeJS + npm ([nodejs.org](https://nodejs.org))
- Ionic (CLI)
- Cordova (CLI)
- Editor de texto ( Visual Studio Code, ConText, etc )
- Android Studio
- Xcode (somente em estação Apple)

# Como instalar os CLI?

- `npm install -g ionic`
- `npm install -g cordova`

Obs.: recomenda-se usar o nvm para instalar o node ([github.com/creationix/nvm](https://github.com/creationix/nvm))

```
wget -q0- https://raw.githubusercontent.com/creationix/nvm/v0.33.11/install.sh | bash
```

# Como criar um projeto?

- `ionic start NomeDoMeuProjeto <template>`

Onde `<template>` pode ser:

- **blank** - Estrutura básica de um projeto em branco
- **tabs** - Estrutura de projeto com abas
- **sidemenu** - Estrutura com menu lateral e navegação entre páginas

Blank app

`$ ionic start myApp blank`

Tabs



`$ ionic start myApp tabs`

Menu



Home



Friends



Events



Close

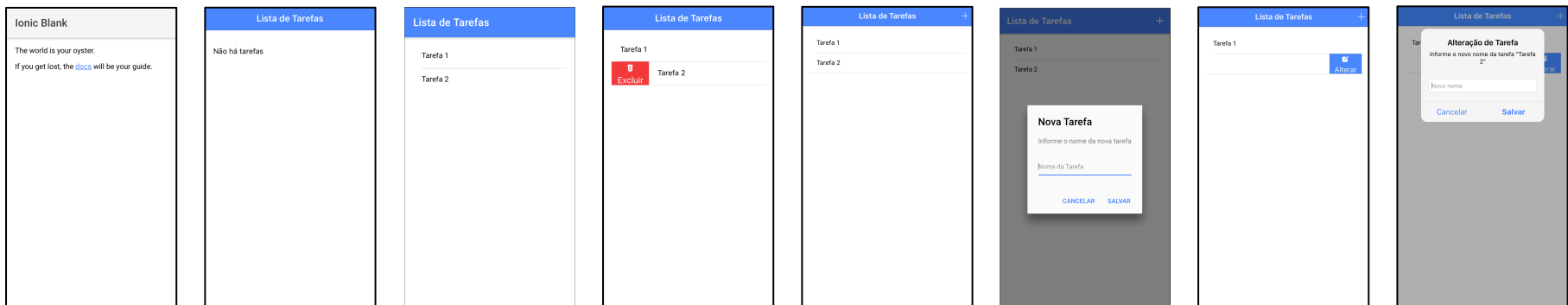


`$ ionic start myApp sidemenu`

<https://ionicframework.com/docs/cli/starters.html>

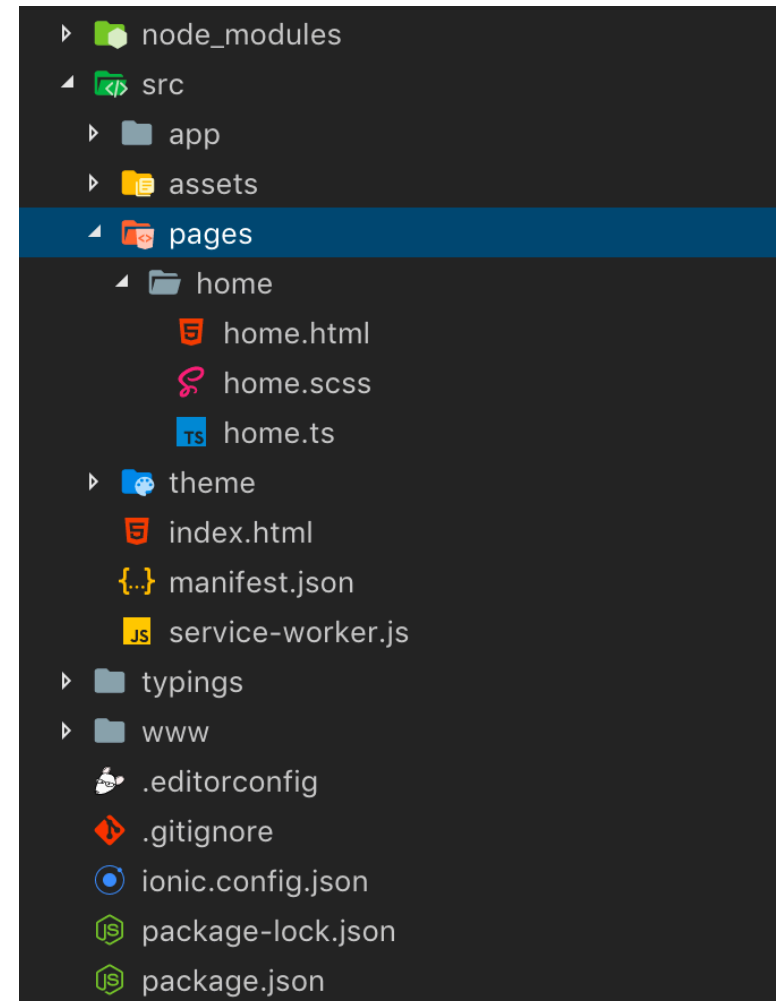
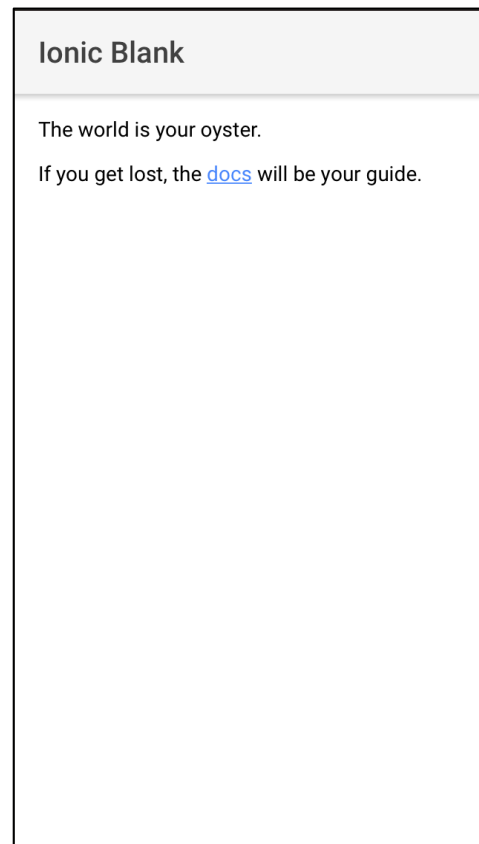
# O que vamos criar?

- Lista de Tarefas
  - Inclusão de tarefas (C)
  - Listagem de tarefas (R)
  - Alteração de tarefas (U)
  - Exclusão de tarefas (D)



# Como criar e executar o projeto?

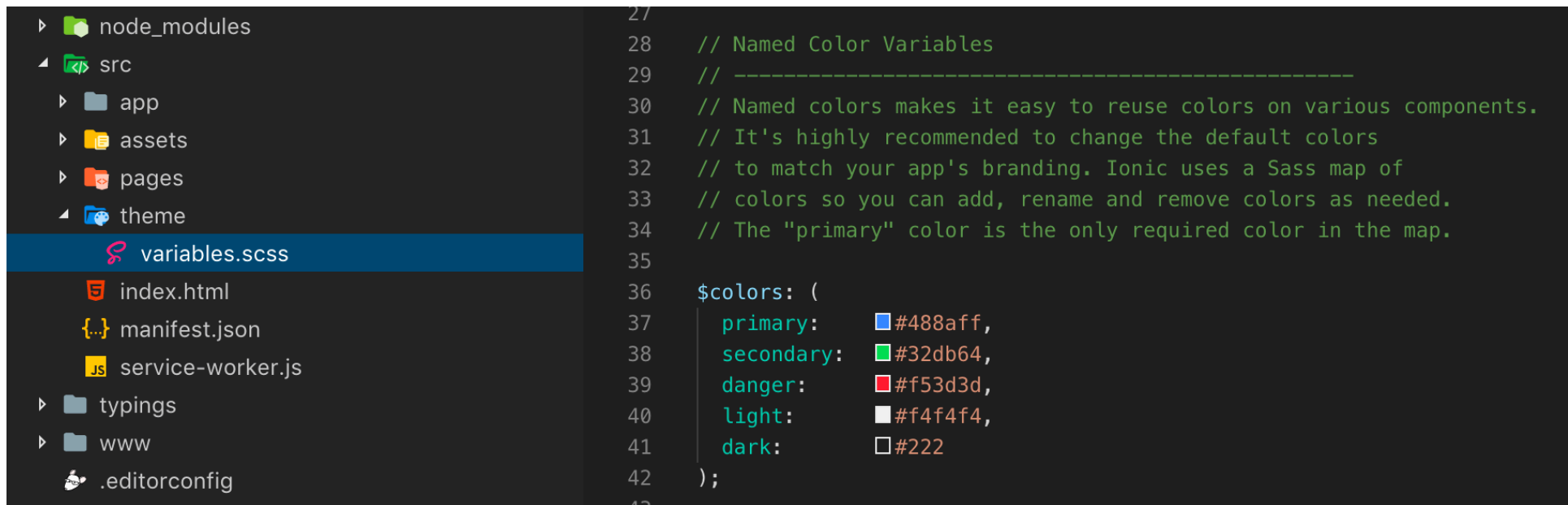
- ionic start ListaDeTarefas blank
- cd ListaDeTarefas
- ionic serve





# Como personalizar?

## \* Arquivo variables.scss



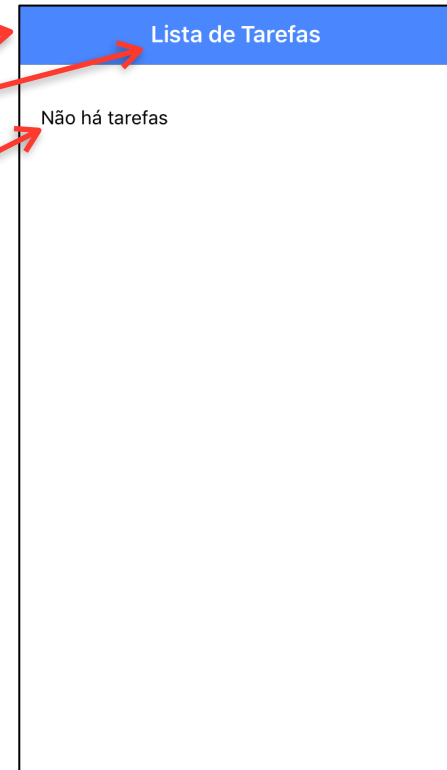
The screenshot shows a code editor with a dark theme. On the left, a file explorer sidebar displays a project structure. The 'theme' folder is expanded, and 'variables.scss' is selected. The main editor area shows the content of 'variables.scss', which includes comments and a Sass map for color variables.

```

27
28 // Named Color Variables
29 // -----
30 // Named colors makes it easy to reuse colors on various components.
31 // It's highly recommended to change the default colors
32 // to match your app's branding. Ionic uses a Sass map of
33 // colors so you can add, rename and remove colors as needed.
34 // The "primary" color is the only required color in the map.
35
36 $colors: (
37   primary:    #488aff,
38   secondary:  #32db64,
39   danger:     #f53d3d,
40   light:      #f4f4f4,
41   dark:       #222
42 );
  
```

# Como personalizar?

```
<ion-header>  
  <ion-navbar color="primary">  
    <ion-title>  
      Lista de Tarefas  
    </ion-title>  
  </ion-navbar>  
</ion-header>  
  
<ion-content padding>  
  <p>Não há tarefas</p>  
</ion-content>
```



# Como listar conteúdo?

*home.ts*

```
import { ITarefa } from '../../../model/tarefa.interface';
import { Component } from '@angular/core';
import { NavController } from 'ionic-angular';
@Component({
  selector: 'page-home',
  templateUrl: 'home.html'
})
export class HomePage {
  tarefas: ITarefa[] = [
    {
      nome: 'Tarefa 1',
      status: 'pendente'
    },
    {
      nome: 'Tarefa 2',
      status: 'pendente'
    }
  ]
  constructor(public navCtrl: NavController) {
  }
}
```

*tarefa.interface.ts*

```
export interface ITarefa {
  nome: string;
  status: string;
}
```

# Como listar conteúdo?

*home.html*

```
<ion-header>
  <ion-navbar color="primary">
    <ion-title>
      Lista de Tarefas
    </ion-title>
  </ion-navbar>
</ion-header>
<ion-content padding>
  <div *ngIf="tarefas.length == 0">
    <p>Não há tarefas.</p>
  </div>
  <ion-list>
    <ion-item *ngFor="let tarefa of tarefas">
      <h3>{{tarefa.nome}}</h3>
    </ion-item>
  </ion-list>
</ion-content>
```

## Lista de Tarefas

Tarefa 1

Tarefa 2

# Como fazer menu deslizante para direita?

home.html

```
...
<ion-list>
  <ion-item-sliding *ngFor="let tarefa of tarefas">
    <ion-item>
      <h3>{{tarefa.nome}}</h3>
    </ion-item>
    <ion-item-options side="left">
      <button ion-button color="danger"
        (click)="onExcluir(tarefa)">
        <ion-icon name="trash"></ion-icon>
        Excluir
      </button>
    </ion-item-options>
  </ion-item-sliding>
</ion-list>
...
```

home.ts

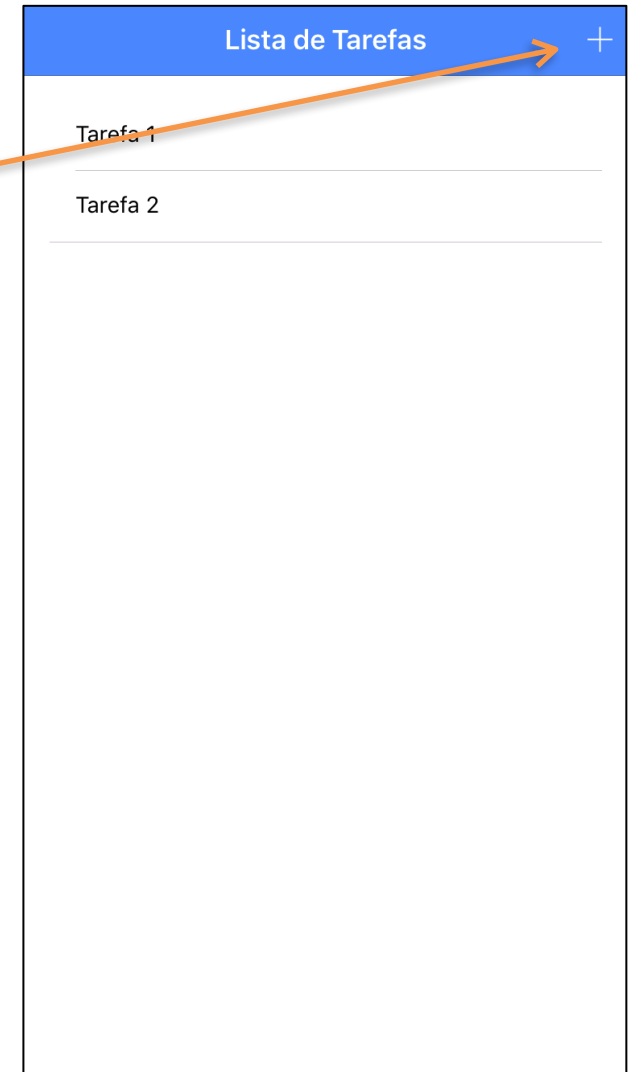
```
...
onExcluir(t: ITarefa) {
  this.tarefas.splice(this.tarefas.indexOf(t),1);
}
...
```



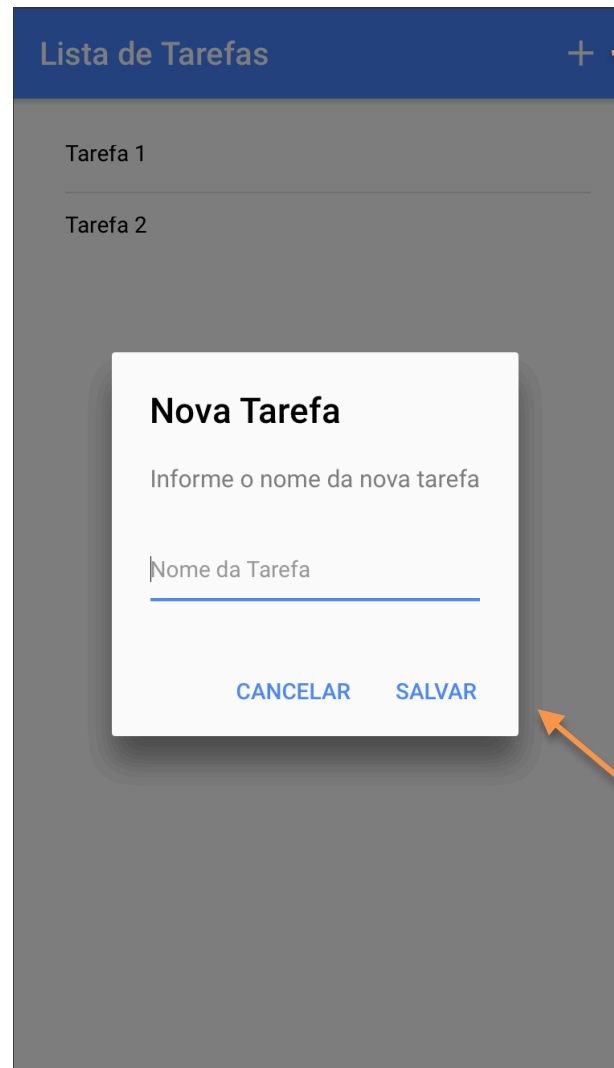
# Como adicionar botão na barra de título?

*home.html*

```
<ion-header>
  <ion-navbar color="primary">
    <ion-title>
      Lista de Tarefas
    </ion-title>
    <ion-buttons end>
      <button ion-button icon-only (click)="onAdicionar()">
        <ion-icon name="add"></ion-icon>
      </button>
    </ion-buttons>
  </ion-navbar>
</ion-header>
```



# Como adicionar botão na barra de título?



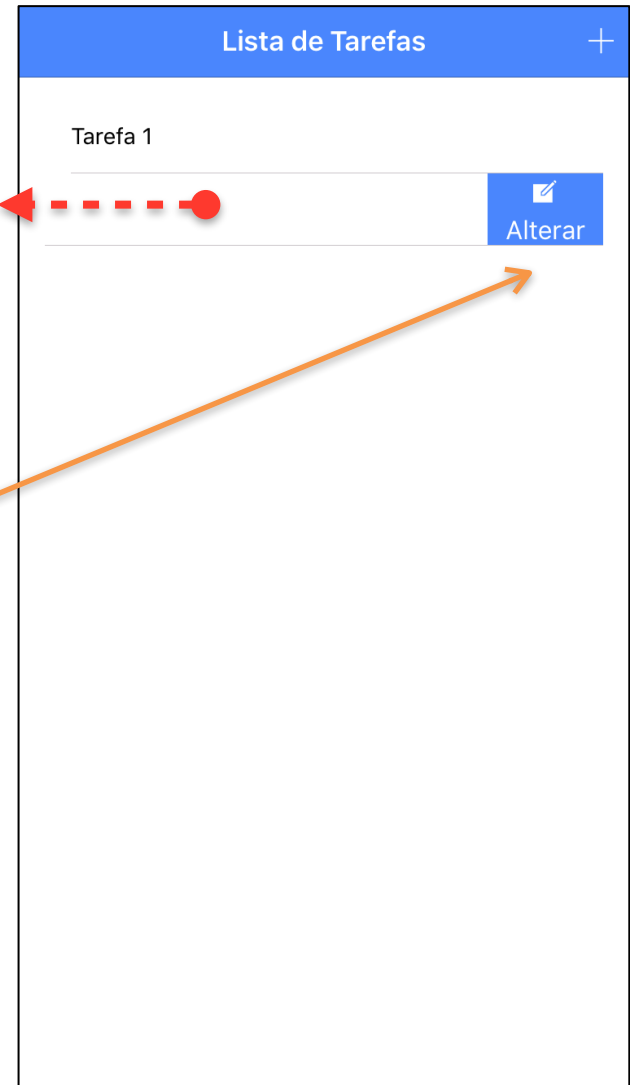
*home.ts*

```
...
onAdicionar() {
  let prompt = this.alertCtrl.create({
    title: 'Nova Tarefa',
    message: 'Informe o nome da nova tarefa',
    inputs: [
      {
        name: 'nome',
        placeholder: 'Nome da Tarefa'
      },
    ],
    buttons: [
      {
        text: 'Cancelar',
        handler: data => {
          console.log(
            'Foi acionado o botão cancelar');
        }
      },
      {
        text: 'Salvar',
        handler: data => {
          let t: ITarefa = {
            nome: data.nome,
            status: 'pendente'
          };
          this.tarefas.push(t);
        }
      }
    ]
  });
  prompt.present();
}
...
```

# Como fazer menu deslizante para esquerda?

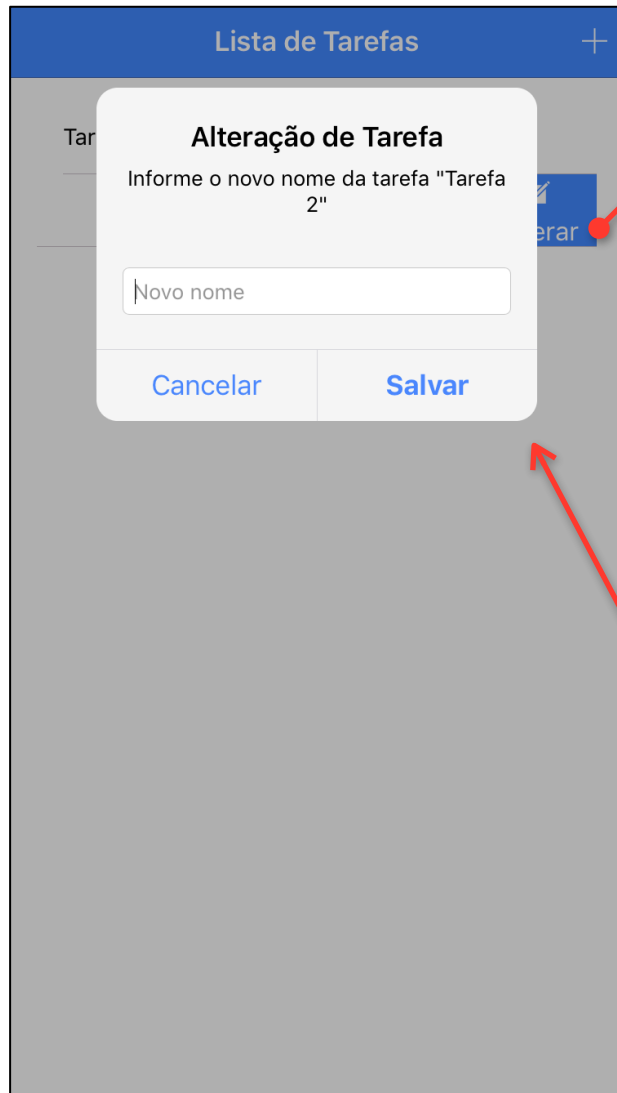
home.html

```
...
<ion-list>
  <ion-item-sliding
    *ngFor="let tarefa of tarefas" #i>
    <ion-item>
      <h3>{{tarefa.nome}}</h3>
    </ion-item>
    <ion-item-options side="left">
      <button ion-button
        color="danger"
        (click)="onExcluir(tarefa)">
        <ion-icon name="trash"></ion-icon>
        Excluir
      </button>
    </ion-item-options>
    <ion-item-options side="right">
      <button ion-button color="primary"
        (click)="onAlterar(tarefa, i)">
        <ion-icon name="create"></ion-icon>
        Alterar
      </button>
    </ion-item-options>
  </ion-item-sliding>
</ion-list>
...
```





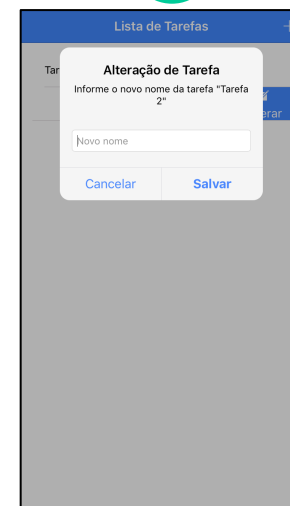
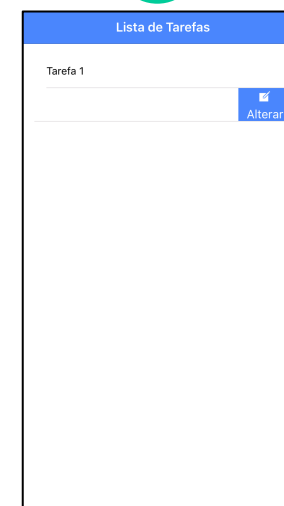
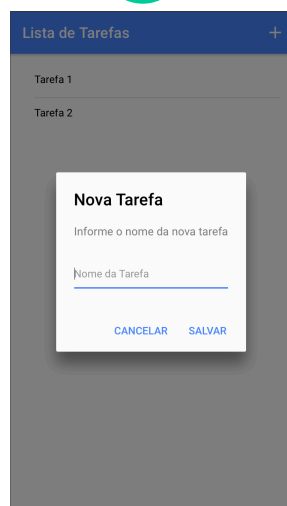
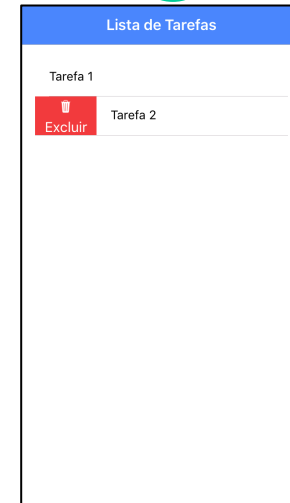
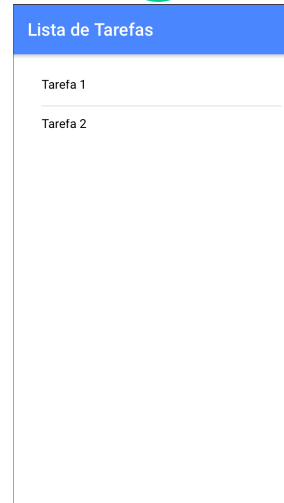
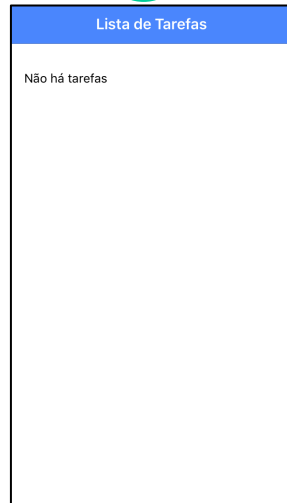
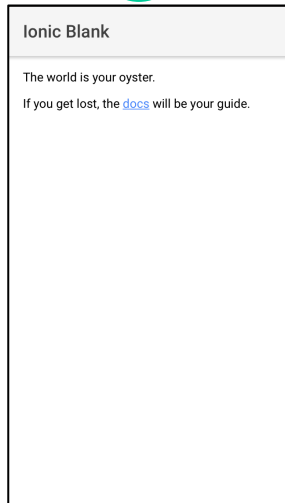
# Como fazer menu deslizante para esquerda?



*home.ts*

```
onAlterar(t: ITarefa, linha: ItemSliding) {
  let prompt = this.alertCtrl.create({
    title: 'Alteração de Tarefa',
    message: `Informe o novo nome da tarefa "${t.nome}"`,
    inputs: [
      {
        name: 'nome',
        placeholder: 'Novo nome'
      },
    ],
    buttons: [
      {
        text: 'Cancelar',
        handler: data => {
          console.log('Foi acionado o botão cancelar');
        }
      },
      {
        text: 'Salvar',
        handler: data => {
          let index = this.tarefas.indexOf(t);
          t.nome = data.nome;
          this.tarefas[index] = t;
          linha.close();
        }
      }
    ]
  });
  prompt.present();
}
```

# Lista de Tarefas



# Exercícios de casa.

Sugestões de aprimoramentos:

- Armazenamento local;
- Indicador de tarefa concluída;
- Filtro para somente tarefas a fazer;
- Armazenamento em nuvem;
- ...

# OBRIGADO!

