

Desenvolvimento Mobile usando HTML5 Prof. Henrique Poyatos Módulo 4 - Ionic2 Laboratório DespesasApp - 16/10/2017

LINK https://goo.gl/H7Mj9C

# DespesasApp usando ionic 2

- 1. Instalar o node.js (6.11.0), inclui o npm 3.10.10;
- 2. Criar o projeto:

ionic start DespesasAppIonic blank --type=ionic-angular

Passo opcional: Instale o Atom.io com o plugins de typescript, emmet, angular2 e ionic-preview;

3. Entrar na pasta de projeto DespesasApp:

## cd DespesasAppIonic

4. Testar o projeto recém-criado:

### ionic serve

5. Acesse http://localhost:8100/:



6. Alterar em ./src/index.html:

```
<meta charset="UTF-8">
  <title>DespesasApp Ionic App
</title>
  <meta name="viewport" content="width=device-width,
initial-scale=1.0, minimum-scale=1.0, maximum-scale=1.0,
user-scalable=no">
  <base href="/">
```

- 7. Criar uma pasta models em ./src;
- 8. Criar uma arquivo despesa.ts em ./src/models;
- 9. Alterar em ./src/models/despesa.ts:

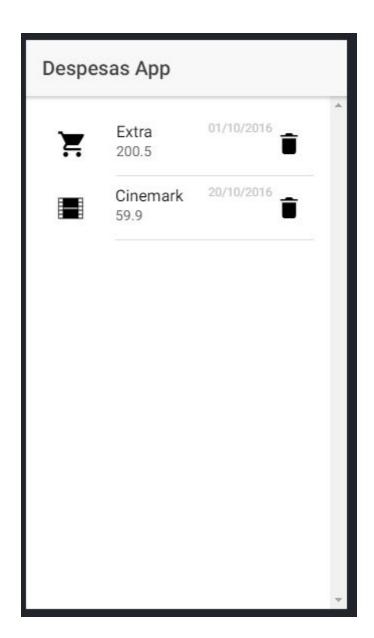
```
export class Despesa {
  id: number;
```

```
tipo: string;
 icone: string;
 nome: string;
 data: Date;
 valor: number;
 constructor(
 id: number,
 tipo: string,
 icone: string,
 nome: string,
 data: Date,
 valor: number)
    this.id = id;
    this.tipo = tipo;
   this.icone = icone;
    this.nome = nome;
    this.data = data;
   this.valor = valor;
 }
}
```

## 10. Alterar em ./src/pages/home/home.ts:

### 11. Alterar em ./src/pages/home/home.html:

```
<ion-header>
  <ion-navbar>
    <ion-title>
      Despesas App<del>Ionic Blank</del>
    </ion-title>
  </ion-navbar>
</ion-header>
<ion-content padding>
  <ion-item *ngFor="let despesa of despesas">
    <ion-icon name="{{despesa.icone}}" item-left large></ion-icon>
    h2>{ \{despesa.nome\}}</h2>
    {qdespesa.valor}}
    <ion-note item-right>{{despesa.data | date:
'dd/MM/yyyy'}}</ion-note>
    <ion-icon name="trash" item-right></ion-icon>
  </ion-item>
 The world is your oyster.
  <del></del>
   If you get lost, the ≺a
href="http://ionicframework.com/docs/v2">docs</a> will be your
<del>guide.</del>
  <del></del>
</ion-content>
```



Criando um: pipe chamado Decimal Br:

```
ionic g pipe decimalBr
```

### Alterar em ./src/pipes/decimal-br/decimal-br.pipe.ts:

```
import { Pipe, PipeTransform } from '@angular/core';

/**
  * Generated class for the DecimalBrPipe pipe.
  *
  * See https://angular.io/docs/ts/latest/guide/pipes.html for
more info on
  * Angular Pipes.
  */
@Pipe({
   name: 'decimalBr',
```

```
})
export class DecimalBrPipe implements PipeTransform {
   transform(value: number): string {
     return value.toString().replace(",",
"&").replace(".",",").replace("&",".");
   }
}
```

#### 1. Alterar em ./src/pages/home/home.html:

```
<ion-header>
 <ion-navbar>
    <ion-title>
      Despesas App
    </ion-title>
 </ion-navbar>
</ion-header>
<ion-content padding>
 <ion-item *ngFor="let despesa of despesas">
    <ion-icon name="{{despesa.icone}}" item-left</pre>
large></ion-icon>
    h2>{\{despesa.nome\}}</h2>
    {{despesa.valor | currency: 'BRL':true: '1.2-2' | decimalBr
} <</p>
    <ion-note item-right>{{despesa.data | date:
'dd/MM/yyyy'}}</ion-note>
    <ion-icon name="trash" item-right></ion-icon>
  </ion-item>
</ion-content>
```

#### 12. Criar a página add:

```
ionic g page add
```

#### 13. Alterar em ./src/app/app.module.ts:

```
import { BrowserModule } from '@angular/platform-browser';
import { ErrorHandler, NgModule } from '@angular/core';
import { IonicApp, IonicErrorHandler, IonicModule } from
'ionic-angular';
import { SplashScreen } from '@ionic-native/splash-screen';
import { StatusBar } from '@ionic-native/status-bar';
import { DecimalBrPipe } from '../pipes/decimal-br/decimal-br';
import { MyApp } from './app.component';
import { HomePage } from '../pages/home/home';
import { AddPage } from '../pages/add/add';
```

```
@NgModule({
 declarations: [
   MyApp,
    DecimalBrPipe,
   HomePage,
   AddPage
 ],
 imports: [
    IonicModule.forRoot(MyApp)
 1,
 bootstrap: [IonicApp],
 entryComponents: [
   MyApp,
   HomePage,
   AddPage
 ],
 providers: [
    StatusBar,
    SplashScreen,
    {provide: ErrorHandler, useClass: IonicErrorHandler}
 ]
})
export class AppModule {}
```

## 14. Alterar em ./src/pages/home/home.html:

```
<ion-header>
  <ion-navbar>
    <ion-title>
      Despesas App
    </ion-title>
  </ion-navbar>
</ion-header>
<ion-content padding>
  <ion-item *ngFor="let despesa of despesas">
    <ion-icon name="{{despesa.icone}}" item-left</pre>
large></ion-icon>
    h2>{\{despesa.nome\}}</h2>
    {{despesa.valor | currency:'BRL':true:'1.2-2' | decimalBr
} 
    <ion-note item-right>{{despesa.data | date:
'dd/MM/yyyy'}}</ion-note>
    <ion-icon name="trash" item-right></ion-icon>
  </ion-item>
<ion-fab right bottom>
<button ion-fab color="primary" (click)="add()">
 <ion-icon name="add" color="light" large></ion-icon>
</button>
```

```
</ion-fab>
</ion-content>
```

### 15. Alterar em ./src/pages/home/home.ts:

```
import { Component } from '@angular/core';
import { NavController } from 'ionic-angular';
import { Despesa } from '../../models/despesa';
import { AddPage } from '../add/add';
@Component({
  selector: 'page-home',
  templateUrl: 'home.html'
})
export class HomePage {
 despesas: Despesa[]
  constructor(public navCtrl: NavController) {
    this.despesas = [new Despesa(1, "Mercado", "cart", "Extra",
new Date("2016-10-01T03:00:00-03:00"), 200.5),
                     new Despesa(2, "Lazer", "ios-film",
"Cinemark", new Date("2016-10-20T03:00:00-03:00"), 59.9)];
  }
 add() {
   this.navCtrl.push(AddPage);
  }
```



## 16. Alterar em ./src/app/pages/add/add.ts:

```
import { Component } from '@angular/core';
import { IonicPage, NavController, NavParams } from
'ionic-angular';

import { Despesa } from '../../models/despesa';

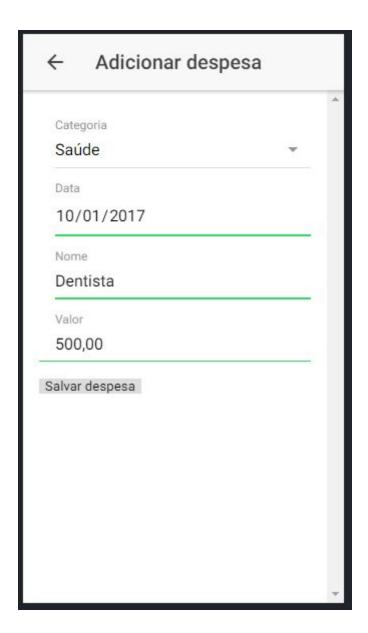
@IonicPage()
@Component({
   selector: 'page-add',
   templateUrl: 'add.html'
})
export class AddPage {
   despesa: Despesa;
```

```
constructor(public navCtrl: NavController, public navParams:
NavParams) {
    this.despesa = new Despesa(new Date().getTime(), "", "", "",
new Date(), 0);
    }
    ionViewDidLoad() {
        console.log('ionViewDidLoad AddPage');
    }
}
```

### 17. Alterar em ./src/app/pages/add/add.html:

```
<ion-header>
 <ion-navbar>
    <ion-title>Adicionar despesa</ion-title>
 </ion-navbar>
</ion-header>
<ion-content padding>
 <ion-list>
 <ion-item>
    <ion-label stacked>Tipo</ion-label>
   <ion-select [(ngModel)]="despesa.tipo">
     <ion-option value="Mercado">Mercado</ion-option>
      <ion-option value="Lazer">Lazer</ion-option>
      <ion-option value="Saúde">Saúde</ion-option>
    </ion-select>
 </ion-item>
 <ion-item>
    <ion-label stacked>Data</ion-label>
    <ion-input type="date" [(ngModel)]="despesa.data"></ion-input>
 </ion-item>
 <ion-item>
    <ion-label stacked>Nome</ion-label>
    <ion-input type="text" [(ngModel)]="despesa.nome"></ion-input>
 </ion-item>
 <ion-item>
    <ion-label stacked>Valor</ion-label>
    <ion-input type="number"</pre>
[(ngModel)]="despesa.valor"></ion-input>
```

```
</ion-item>
</ion-list>
<button (click)="save();">Salvar despesa</button>
</ion-content>
```



18. Instalando o Angular 2 LocalStorage plugin:

npm install angular-2-local-storage

#### 19. Alterar em ./src/app/app.module.ts:

```
import { BrowserModule } from '@angular/platform-browser';
import { ErrorHandler, NgModule } from '@angular/core';
import { IonicApp, IonicErrorHandler, IonicModule } from
'ionic-angular';
import { SplashScreen } from '@ionic-native/splash-screen';
import { StatusBar } from '@ionic-native/status-bar';
import { DecimalBrPipe } from '../pipes/decimal-br/decimal-br';
import { MyApp } from './app.component';
import { HomePage } from '../pages/home/home';
import { AddPage } from '../pages/add/add';
/* LocalStorage */
import { LocalStorageModule } from 'angular-2-local-storage';
@NgModule({
  declarations: [
   MyApp,
   DecimalBrPipe,
    HomePage,
    AddPage
  ],
  imports: [
   BrowserModule,
    IonicModule.forRoot(MyApp),
   LocalStorageModule.withConfig({
     prefix: 'despesasApp',
     storageType: 'localStorage'
    })
  ],
 bootstrap: [IonicApp],
  entryComponents: [
   MyApp,
   HomePage,
    AddPage
 ],
 providers: [
    StatusBar,
    SplashScreen,
    {provide: ErrorHandler, useClass: IonicErrorHandler}
  ]
export class AppModule {}
```

#### 20. Alterar em ./src/app/pages/home/home.ts:

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

```
import { NavController } from 'ionic-angular';
import { Despesa } from '../../models/despesa';
import { AddPage } from '../add/add';
import { LocalStorageService } from 'angular-2-local-storage';
@Component({
 selector: 'page-home',
  templateUrl: 'home.html'
})
export class HomePage {
 despesas: Despesa[]
  constructor (public navCtrl: NavController, private
localStorageService: LocalStorageService) {
    this.despesas = [];
        if (this.localStorageService.get("despesas") != null)
            let jsonObjectArray =
JSON.parse(<string>this.localStorageService.get("despesas"));
            for (let jsonObject of jsonObjectArray)
              switch(jsonObject.tipo)
                case "Saúde":
                  jsonObject.icone = "medical";
                break;
                case "Mercado":
                  jsonObject.icone = "cart";
                break;
                case "Lazer":
                  jsonObject.icone = "american-football";
              this.despesas.push(new Despesa(jsonObject.id,
jsonObject.tipo, jsonObject.icone, jsonObject.nome, new
Date(jsonObject.data), jsonObject.valor));
            }
        }
    this.despesas = [new Despesa(1, "Mercado", "cart", "Extra",
new Date ("2016-10-01T03:00:00-03:00") , 200.5) ,
                    new Despesa(2, "Lazer", "ios-film",
"Cinemark", new Date("2016-10-20T03:00:00-03:00"), 59.9)];
  }
  add() {
    this.navCtrl.push(AddPage);
```

}

## 21. Alterar em ./src/app/pages/add/add.ts:

```
import { Component } from '@angular/core';
import { NavController, NavParams } from 'ionic-angular';
import { Despesa } from '../../models/despesa';
import { HomePage } from '../home/home';
import { LocalStorageService } from 'angular-2-local-storage';
 Generated class for the List page.
  See http://ionicframework.com/docs/v2/components/#navigation
for more info on
  Ionic pages and navigation.
* /
@Component({
  selector: 'page-add',
  templateUrl: 'add.html'
export class AddPage {
  despesa: Despesa;
  despesas: Despesa[];
  constructor(public navCtrl: NavController, public navParams:
NavParams, private localStorageService: LocalStorageService) {
    this.despesa = new Despesa(new Date().getTime(), "", "", "",
new Date(), 0);
  ionViewDidLoad() {
    console.log('ionViewDidLoad AddPage');
  save() {
    this.despesas = [];
        if (this.localStorageService.get("despesas") != null)
            let jsonObjectArray =
JSON.parse(<string>this.localStorageService.get("despesas"));
            for (let jsonObject of jsonObjectArray)
              this.despesas.push(new Despesa(jsonObject.id,
jsonObject.tipo, jsonObject.icone, jsonObject.nome, new
Date(jsonObject.data), jsonObject.valor));
        }
```

```
this.despesas.push(this.despesa);
  this.localStorageService.set("despesas",

JSON.stringify(this.despesas));

this.navCtrl.push(HomePage);
}
```

Delete

#### 22. Alterar em ./src/app/pages/home/home.html:

```
<ion-header>
 <ion-navbar>
    <ion-title>
      Despesas App
    </ion-title>
 </ion-navbar>
</ion-header>
<ion-content padding>
 <ion-item *ngFor="let despesa of despesas"</pre>
[hidden]="despesa.deleted"><!-- Não precisa -->
    <ion-icon name="{{despesa.icone}}" item-left</pre>
large></ion-icon>
    <h2>{ {despesa.nome}}</h2>
    {{despesa.valor | currency:'BRL':true:'1.2-2' | decimalBr
} 
    <ion-note item-right>{{despesa.data | date:
'dd/MM/yyyy'}}</ion-note>
    <ion-icon name="trash" item-right</pre>
(click) = "del (despesa.id) "></ion-icon>
 </ion-item>
 <ion-fab right bottom>
 <button ion-fab color="primary" (click)="add()">
    <ion-icon name="add" color="light" large></ion-icon>
 </button>
 </ion-fab>
</ion-content>
```

#### 23. Alterar em /src/models/despesa.ts:

```
export class Despesa {
  id: number;
  tipo: string;
  icone: string;
  nome: string;
  data: Date;
```

```
valor: number;
deleted: boolean;
constructor(
id: number,
tipo: string,
icone: string,
nome: string,
data: Date,
valor: number)
  this.id = id;
  this.tipo = tipo;
  this.icone = icone;
  this.nome = nome;
  this.data = data;
  this.valor = valor;
}
```

### 24. /src/app/pages/home/home.ts:

```
import { Component } from '@angular/core';
import { NavController } from 'ionic-angular';
import { Despesa } from '../../models/despesa';
import { AddPage } from '../add/add';
import { LocalStorageService } from 'angular-2-local-storage';
@Component({
 selector: 'page-home',
  templateUrl: 'home.html'
})
export class HomePage {
 despesas: Despesa[];
  constructor(public navCtrl: NavController, private
localStorageService: LocalStorageService) {
    this.despesas = [];
            if (this.localStorageService.get("despesas") != null)
                let jsonObjectArray =
JSON.parse(<string>this.localStorageService.get("despesas"));
                for (let jsonObject of jsonObjectArray)
                  switch(jsonObject.tipo)
```

```
case "Saúde":
                       jsonObject.icone = "medical";
                    break;
                     case "Mercado":
                       jsonObject.icone = "cart";
                    break;
                    case "Lazer":
                       jsonObject.icone = "american-football";
                  this.despesas.push(new Despesa(jsonObject.id,
jsonObject.tipo, jsonObject.icone, jsonObject.nome, new
Date(jsonObject.data), jsonObject.valor));
 }
 add() {
    this.navCtrl.push(AddPage);
 del(id)
    for (var i=0; i < this.despesas.length; i++)</pre>
     if (this.despesas[i].id == id)
        this.despesas[i].deleted = true;
        this.despesas.splice(i, 1);
    this.localStorageService.set("despesas",
JSON.stringify(this.despesas));
 }
```

```
25. Site do Ionic, criar uma conta, criar um app, solicitar id.
26. npm install @ionic/cloud-angular --save
27. s
```

### 28. Alterar em ./src/app/app.module.ts:

```
import { BrowserModule } from '@angular/platform-browser';
import { ErrorHandler, NgModule } from '@angular/core';
import { IonicApp, IonicErrorHandler, IonicModule } from
'ionic-angular';
import { SplashScreen } from '@ionic-native/splash-screen';
import { StatusBar } from '@ionic-native/status-bar';
```

```
import { DecimalBrPipe } from '../pipes/decimal-br/decimal-br';
import { MyApp } from './app.component';
import { HomePage } from '../pages/home/home';
import { AddPage } from '../pages/add/add';
/* LocalStorage */
import { LocalStorageModule } from 'angular-2-local-storage';
import { CloudSettings, CloudModule } from '@ionic/cloud-angular';
const cloudSettings: CloudSettings = {
  'core': {
    'app_id': '81d1d2f1'
};
@NgModule({
  declarations: [
    MyApp,
    DecimalBrPipe,
    HomePage,
    AddPage
  ],
  imports: [
    BrowserModule,
    IonicModule.forRoot(MyApp),
    LocalStorageModule.withConfig({
      prefix: 'despesasApp',
      storageType: 'localStorage'
    CloudModule.forRoot(cloudSettings)
  ],
 bootstrap: [IonicApp],
  entryComponents: [
    MyApp,
    HomePage,
    AddPage
  ],
 providers: [
    StatusBar,
    SplashScreen,
    {provide: ErrorHandler, useClass: IonicErrorHandler}
  ]
})
export class AppModule {}
```

```
"name": "DespesasApplonic",
   "app_id": "81d1d2f1",
   "type": "ionic-angular"
}

ionic upload
```