# Ionic4 example CRUD Angular con SQLite - R.Oliva 12.08.2020

## Uso de Ionic / samples 12-08-20

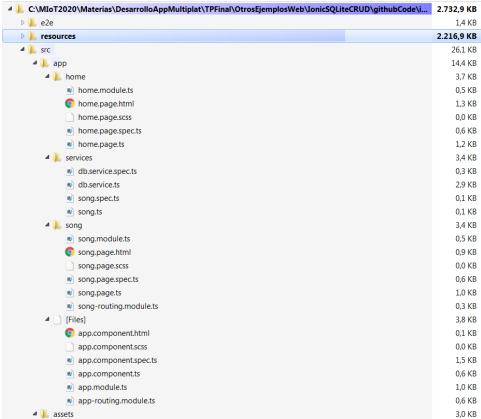
#### 1) # ionic-sqlite-app

In this tutorial, we will learn how to create Ionic 4 Angular CRUD application and implement SQLite Native plugin to store the data in the SQLite Database. We will create the Create, Read, Update and Delete operation to manage the data in the database. Moreover, we will also learn to load the dummy data from the sql database file using HttpClient service.

[Ionic 4 SQLite Database CRUD App Example Tutorial]

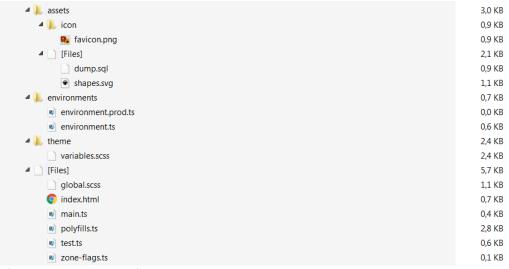
https://www.positronx.io/ionic-sqlite-database-crud-app-example-tutorial/

#### 2) File Tree / hasta Assets:

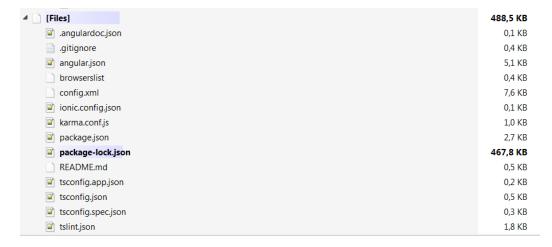


Android+IOS

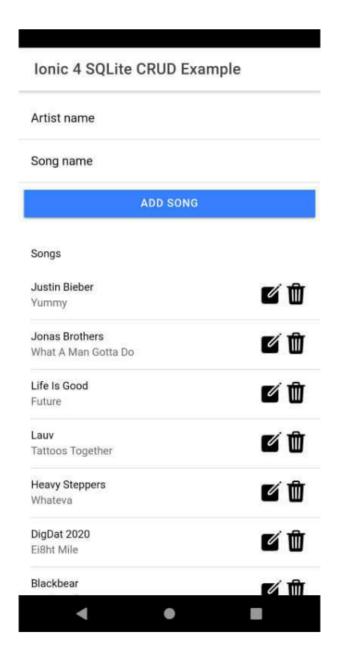
2) Detalle Assets y files dentro de /app:



3) Detalle directorio raíz de proyecto ionic:



### 4) Aspecto:



5) Primera parte de Config.xml (después siguen cosas específicas de Android e IOS)

```
<?xml version='1.0' encoding='utf-8'?>

□<widget id="io.ionic.starter" version="0.0.1" xmlns="http://www.w3.org/ns/widgets" xmlns:cdv="http://cordova.apache.org/ns/1.0">
                                                                               caname>MyApp/name>

<
                                                                           callow-intent href="http://*/*" />
callow-intent href="http://*/*" />
callow-intent href="http://*/*" />
callow-intent href="http://*/*" />
callow-intent href="sms:*" />
callow-intent href="sms:*" />
callow-intent href="gso:*" />
callow-intent href="mailto:*" />
callow-i
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  16
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19
20
```

6) Primera parte de packages.json

```
"name": "ionic-sqlite-app",
"version": "0.0.1",
"author": "Ionic Framework",
"homepage": "https://ionicfr
                                                                                                          "https://ionicframework.com/",
                                                 scripts": {
  "ng",
  "start": "ng serve",
  "build": "ng build",
  "test": "ng test",
  "lint": "ng lint",
  "e2e": "ng e2e"
11
12
                                   "int: 'ng lint',
  "e2e": 'ng e2e"

},

"private": true,

"dependencies": {
  "@angular/common": "~8.1.2",
  "@angular/core": "~8.1.2",
  "@angular/forms": "~8.1.2",
  "@angular/platform-browser": "~8.1.2",
  "@angular/platform-browser": "~8.1.2",
  "@angular/platform-browser-dynamic": "~8.1.2",
  "@angular/platform-browser-dynamic": "~8.1.2",
  "@ionic-native/core": "~5.23.0",
  "@ionic-native/splate": "^5.23.0",
  "@ionic-native/sqlite": "^5.23.0",
  "@ionic-native/sqlite-porter": "^5.23.0",
  "@ionic-native/status-bar": "^5.23.0",
  "@ionic-angular": "^5.0.5",
  "cordova-android": "8.1.0",
  "cordova-android": "8.1.0",
  "cordova-sqlite-storage": "^4.0.0",
  "core-js": "^2.5.4",
  "xsjs": "~6.5.1",
  "stilb": "1.11.1",
  "uk.co.workingedge.cordova.plugin.sqliteporter"
15
16
17
18
19
20
22
23
24
25
26
27
28
31
32
33
34
35
                                                     "uk.co.workingedge.c"zone.js": "~0.9.1"
                                                                                                                                                                 cordova.plugin.sqliteporter": "^1.1.1",
36
                                      },
```

7) ionic.config.json

```
1
       "name": "ionic-sqlite-app",
2
       "integrations": {
3
        "cordova": {}
4
5
       'type": "angular"
6
7
8
```

8) Primera parte de angular.json

```
'$schema": "./node_modules/@angular/cli/lib/config/schema.json",
10
11
13
14
                          "builder": "gwangurar-devkir/
"options": {
    "outputPath": "www",
    "index": "src/index.html",
    "main": "src/main.ts",
    """    "src/volyfill"
18
19
                              "polyfills": "src/polyfills.ts",
"tsConfig": "tsconfig.app.json",
"assets": [
20
21
22
23
24
                               {
    "glob": "**/*",
    "input": "src/assets",
    "output": "assets"
```

```
9) index.html, donde en el body sólo se llama a <app-root>
  C:\MIOT2020\Materias\Desarrollo\AppMultiplat\TPFinal\OtrosEjemplos\Web\IonicSQLiteCRUD\github\Code\ionic-sqlite-app-mastrollo\AppMultiplat\TPFinal\Desarrollo\AppMultiplat\TPFinal\Desarrollo\AppMultiplat\TPFinal\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarrollo\AppMultiplat\Desarroll
                  KIDOCITE IICIIII
      4
             ⊢<head>
                       <meta charset="utf-8" />
      5
                       <title>Ionic App</title>
      6
      7
                       <base href="/" />
      8
      9
                       <meta name="viewport" content="viewport-fit=cover, width=device-width, initia</pre>
    10
                       <meta name="format-detection" content="telephone=no" />
    11
     12
                       <meta name="msapplication-tap-highlight" content="no"</pre>
    13
                       k rel="icon" type="image/png" href="assets/icon/favicon.png" />
    14
    15
                       <!-- add to homescreen for ios -->
    16
                       <meta name="apple-mobile-web-app-capable" content="yes" />
    17
                       <meta name="apple-mobile-web-app-status-bar-style" content="black" />
    18
    19
                  </head>
    20
             □<body>
    21
     22
                       <app-root></app-root>
    23
                  </body>
    24
                L</html>
    25
10) main.ts es el controlador base → básicamente solo llama a AppModule dentro de /app
                              📑 index.html 🔀 📙 arduino-mqtt.cpp 🔀 🛗 DumpDatosTp.sql 🔀 📙 estructuraTpDam.sql 🔀 🛗 detalleSensor.page.ts 🔀 📙
                     import { enableProdMode } from '@angular/core';
        1
        2
                     import { platformBrowserDynamic } from '@angular/platform-browser-dynamic';
        3
        4
                     import { AppModule } from './app/app.module';
        5
                     import { environment } from './environments/environment';
        6
                 □if (environment.production) {
        8
                          enableProdMode();
       9
      10
```

11) Global.scss es el global stylesheet, para toda la aplicacion:

.catch(err => console.log(err));

11

12

platformBrowserDynamic().bootstrapModule(AppModule)

```
DumpDatosTp.sql 🗵 📙 .gitignore 🗵 📙 global.scss 🗵
1
    /*
     * App Global CSS
 2
 3
     * Put style rules here that you want to apply globally. These styles are for
4
     * the entire app and not just one component. Additionally, this file can be
     * used as an entry point to import other CSS/Sass files to be included in the
     * output CSS.
8
     * For more information on global stylesheets, visit the documentation:
     * https://ionicframework.com/docs/layout/global-stylesheets
9
10
11
    /* Core CSS required for Ionic components to work properly */
12
   @import "~@ionic/angular/css/core.css";
13
14
   /* Basic CSS for apps built with Ionic */
15
   @import "~@ionic/angular/css/normalize.css";
16
   @import "~@ionic/angular/css/structure.css";
17
    @import "~@ionic/angular/css/typography.css";
18
    @import '~@ionic/angular/css/display.css';
19
20
21
   /* Optional CSS utils that can be commented out */
   @import "~@ionic/angular/css/padding.css";
22
   @import "~@ionic/angular/css/float-elements.css";
23
   @import "~@ionic/angular/css/text-alignment.css";
   @import "~@ionic/angular/css/text-transformation.css";
26 @import "~@ionic/angular/css/flex-utils.css";
```

12) Los dos archivos de /environments se refieren a la versión de producción:

```
📑 DumpDatosTp.sql 🗵 📙 .gitignore 🗵 📙 global.scss 🗵 📙 environment.ts 🗵 📙 environment.prod.ts 🗵
        export const environment = {
    2
            production: true
    3
          };
13) Dentro de /themes, está el variables.scss de Ionic:
 DumpDatosTp.sql 🗵 🖶 .gitignore 🗵 🗒 global.scss 🗵 🗒 environment.ts 🗵 🗒 environment.prod.ts 🗵 🗒 dump.sql 🗵 🗒 variables.scss 🗵
  1 // Ionic Variables and Theming. For more info, please see:
     // http://ionicframework.com/docs/theming/
  3
      /** Ionic CSS Variables **/
  5
     :root {
       /** primary **/
  6
        --ion-color-primary: #3880ff;
  7
  8
        --ion-color-primary-rgb: 56, 128, 255;
  9
        --ion-color-primary-contrast: #ffffff;
  10
        --ion-color-primary-contrast-rgb: 255, 255, 255;
  11
        --ion-color-primary-shade: #3171e0;
        --ion-color-primary-tint: #4c8dff;
  12
  13
       /** secondary **/
 14
        --ion-color-secondary: #0cd1e8;
 15
 16
        --ion-color-secondary-rgb: 12, 209, 232;
 17
        --ion-color-secondary-contrast: #ffffff;
 18
        --ion-color-secondary-contrast-rgb: 255, 255, 255;
```

14) Dentro de /assets, hay imágenes, y lo mas relevante es la base de datos SQLite con la inserción de 8 canciones:

15) Dentro de /app están los archivos propios de la aplicación