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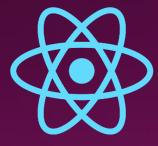
Qu'est ce qu'Ionic?

- Framework multiplateforme
- Application hybride
- Technologies web

- Avantages
 - Productivité
 - Support multiplateforme
 - Documentation
 - Interface utilisateur
- Inconvénients
 - Performance

D'autres Frameworks?



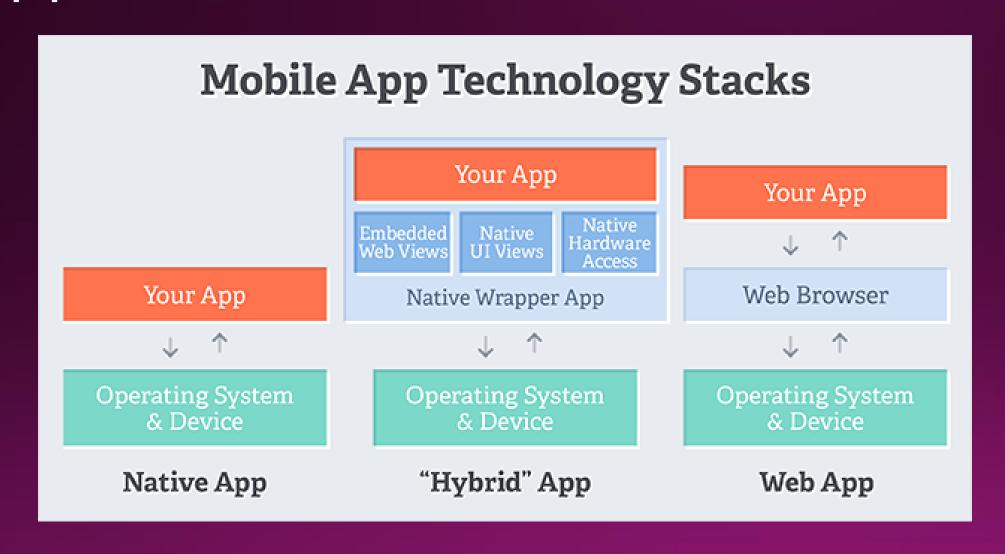








Application Mobile



Technologies embarquées











Plateforme supportées













Composants Ionic

UI Components



Ionic CLI



Ionic Native







Ionicons



Installation

- Installer NodeJS
 - https://nodejs.org
- Installer les modules
 - λ npm install -g cordova ionic

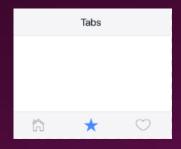


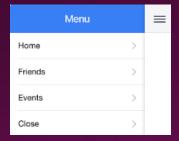
- Installer le SDK Android
 - https://cordova.apache.org/docs/en/latest/guide/platforms/android/index.html
- Installer le SDK iOS
 - https://cordova.apache.org/docs/en/latest/guide/platforms/ios/index.html

Créer un projet

- Générer un projet
 - λ ionic start Soundio
- Choisir un template





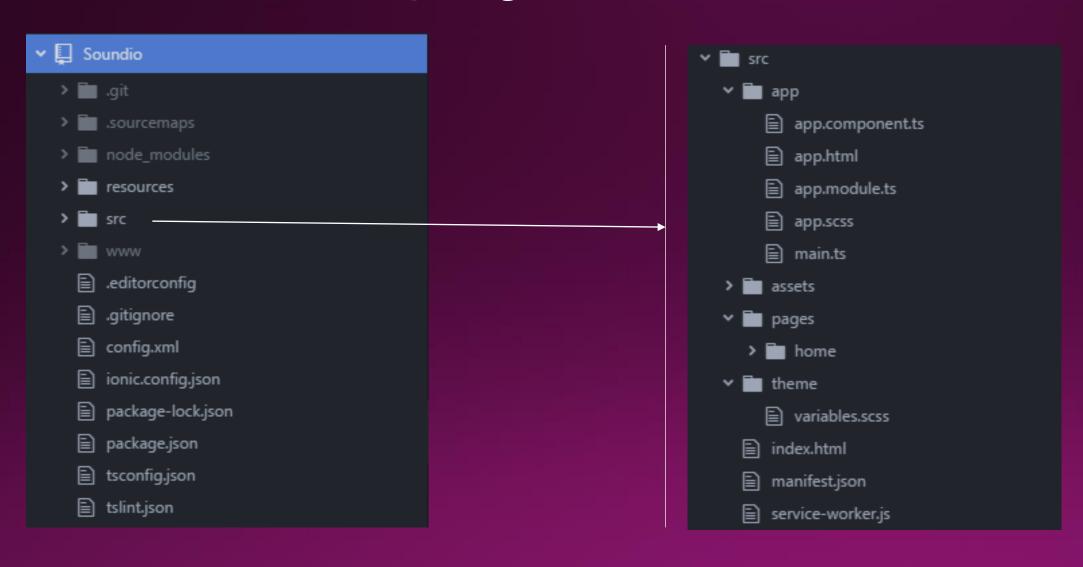


- Lancer l'application
 - λ ionic serve
 - λ ionic lab

- Lancer dans un émulateur
 - λ ionic cordova emulate android
- Lancer sur un terminal
 - Connecter votre smartphone
 - Activer le mode développeur
 - λ ionic cordova run ios

Ces options nécessitent l'installation des SDKs

Structure du projet



Le composant racine

app.component.ts

```
import { Component } from '@angular/core';
import { Platform } from 'ionic-angular';
import { StatusBar } from '@ionic-native/status-bar';
import { SplashScreen } from '@ionic-native/splash-screen';
import { HomePage } from '../pages/home/home';
@Component({
 templateUrl: 'app.html'
export class MyApp {
 rootPage:any = HomePage;
  constructor(platform: Platform, statusBar: StatusBar, splashScreen: SplashScreen)
   platform.ready().then(() => {
     statusBar.styleDefault();
     splashScreen.hide();
    });
```

app.html

```
<ion-nav [root]="rootPage"></ion-nav>
```

Les pages

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

@Component({
    selector: 'page-home',
    templateUrl: 'home.html'
})
export class HomePage {

    constructor(public navCtrl: NavController) {
    }
}
```

- Générer une page
 - λ ionic generate page list --no-module
- Enregistrer dans le module
 - Dans les déclarations
 - Dans les points d'entrées

Naviguer entre les pages

Dans le composant

```
import { NavController } from 'ionic-angular';
import { ListPage } from '../list/list';

constructor(public navCtrl: NavController)

this.navCtrl.push( ListPage );
```

Dans le template

```
import { ListPage } from '../list/list';
export class HomePage {
    listPage = ListPage;

    constructor() {
    }
}
```

```
this.navCtrl.push( ListPage, {
                   from: 'home'
               });
     import { NavParams } from 'ionic-angular';
         constructor( public navParams: NavParams ){
            console.log( this.navParams.get('from') );
       <button [navPush]="listPage">
            Découvrir nos playlists
       </button>
       params = { from: 'about' };
<button [navPush]="listPage" [navParams]="params">
   Découvrir nos playlists
</button>
```

Les composants UI

Bouton

```
<button ion-button>
    Découvrir nos playlists
</button>

<button ion-button small round color="secondary">
    Découvrir nos playlists
</button>
```

Alerte

```
import { AlertController } from 'ionic-angular';
showAlert() {
    let alert = this.alertCtrl.create({
        title: 'A propos',
        subTitle: 'Super application de musique',
        buttons: ['Fermer']
    });
    alert.present();
}
```

Liste

• Grille

Ionic Native

Installer un composant

```
λ ionic cordova plugin add cordova-plugin-camera
λ npm install --save @ionic-native/camera
```

Injecter le service

```
import { Camera } from '@ionic-native/camera';
```

Exemple d'utilisation

```
this.camera.getPicture(options).then((imageData) => {
    this.pic = 'data:image/jpeg;base64,' + imageData;
}, (err) => {
    console.log( err );
});
```

```
providers: [
// ...
Camera,
// ...
]
```

Ionic DevApp

- Installer l'application Ionic DevApp
- Créer un compte lonic
- Se connecter au réseau Wifi

- Lancer votre application
 - λ ionic serve



Icone et Splashscreen

- Icone
 - Dimension: 1024x1024
 - Placer dans resources\icon.png
- Icone
 - Dimension : 2732×2732
 - Zone d'affichage : 1200×1200
 - Dans le dossier
- Générer les ressources
 - λ ionic cordova resources

Ionic Pro

- Services cloud
 - Creator
 - View App
 - Package
 - Deploy
 - Monitor

