**Mobile Application Development**

# [Choosing the best mobile app framework](https://www.youtube.com/watch?v=4m7msadL5iA)

Select best mobile application development : <https://www.youtube.com/watch?v=xsoBClaWXIE>

**Native Mobile framework and tool:**

* **Xcode – IOS**
* **Android Studio - Android**

**Progressive Mobile application framework:**

* React Native
* Flutter
* Ionic
* Native Script

NodeJS : <https://www.w3schools.com/nodejs/nodejs_intro.asp>

ReactJS : <https://www.w3schools.com/react/>

Install Software for below website:

<https://nodejs.org/en/>

<https://code.visualstudio.com/>

<https://www.npmjs.com>

**Ionic:**

<https://ionicframework.com/>

NPM : <https://www.youtube.com/watch?v=ZNbFagCBlwo>

* npm –v
* Ionic CLI and install globally: **npm install ionic –g**
* Cordova Installation : **npm install cordova –g**
* Ionic –v
* Cordova –v

**Step to create ionic application:**

* **Ionic start HelloWorld blank** 🡪 This command is used to create ionic project with folder structure
* **Code \_ or code .** 🡪 This command with used to open the code in visual studio
* **Ionic serve / Ionic server --l**

**🡪** This command is used to serve the project

Might be facing below Exception:

ionic : File C:\Users\SIVAGURUNATHAPANDIAN\AppData\Roaming\npm\ionic.ps1 cannot be loaded

because running scripts is disabled on this system. For more information, see

about\_Execution\_Policies at https:/go.microsoft.com/fwlink/?LinkID=135170.

At line:1 char:1

+ ionic serve

+ ~~~~~

+ CategoryInfo : SecurityError: (:) [], PSSecurityException

+ FullyQualifiedErrorId : UnauthorizedAccess

<https://stackoverflow.com/questions/4037939/powershell-says-execution-of-scripts-is-disabled-on-this-system>

if you wanted to change the policy to RemoteSigned for just the CurrentUser, you'd run the following command:

powershell Set-ExecutionPolicy -ExecutionPolicy RemoteSigned -Scope CurrentUser

* **ionic cordova run** - Run an Ionic project on a connected device

Build your app and deploy it to devices and emulators using this command.

* <https://ionicframework.com/docs/developing/android> --> This website is used to install android and SDK in the windows

Exception :

On windows I add this variables: ANDROID\_SDK\_ROOT C:\....\AppData\Local\Android\sdk ,

ANDROID\_PLATFORM\_TOOLS C:\...\AppData\Local\Android\sdk\platform-tools.

Try to add this, because your ANDROID\_SDK\_ROOT is undefined; After this reset your PC and try again.

<https://ionicframework.com/docs/v1/guide/preface.html>

* npm i @ionic/angular-toolkit@latest
* Need to install Gradle and include path in environment variable.
* %ANDROID\_SDK\_ROOT%/tools/bin/sdkmanager –licenses
* npm i -g native-run
* **To include Android phone with app development :** <https://developer.android.com/training/basics/firstapp/running-app>

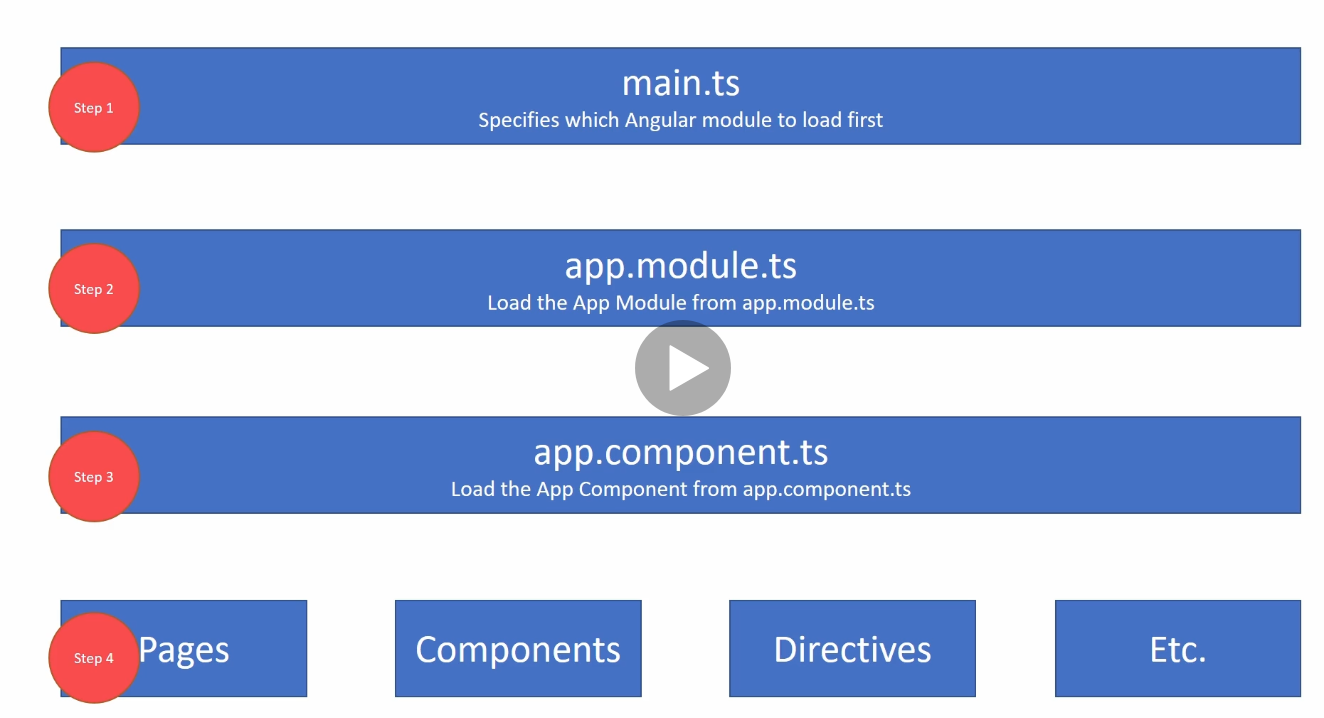
<https://stackoverflow.com/questions/28944494/warning-no-target-specified-deploying-to-emulator>

* **Delete the android folder present in platform directory.**

1. ionic cordova platform add android
2. ionic cordova build android
3. ionic cordova run android --no-native-run

<https://enappd.com/blog/how-to-create-an-ionic-app-for-beginners/144/>

**How Ionic works:**

****

Next step

Has to install Xcode

How to create icon in while excuting the ionic program and emulator in phone

**Fap icon:**

**UI Components:**

[**https://ionicframework.com/docs/api/fab**](https://ionicframework.com/docs/api/fab)

**JS Components:**

[**https://ionicframework.com/docs/v3/api/components/loading/LoadingController/**](https://ionicframework.com/docs/v3/api/components/loading/LoadingController/)

[**https://cognizant.udemy.com/course/ionic-basics/learn/lecture/9750726#overview**](https://cognizant.udemy.com/course/ionic-basics/learn/lecture/9750726#overview)

[**https://www.tutorialspoint.com/ionic/index.htm**](https://www.tutorialspoint.com/ionic/index.htm)

**Ionic Icons:**

[**https://ionicons.com/**](https://ionicons.com/)

****

**Loading controller:**

export interface LoadingOptions {

spinner?: SpinnerTypes | null;

message?: string;

cssClass?: string | string[];

showBackdrop?: boolean;

duration?: number;

translucent?: boolean;

animated?: boolean;

mode?: Mode;

keyboardClose?: boolean;

id?: string;

enterAnimation?: AnimationBuilder;

leaveAnimation?: AnimationBuilder;

}

To generate new page:

**Ionic generate page <pagename>**

**Navigation:**

[**https://ionicframework.com/docs/angular/navigation#live-example**](https://ionicframework.com/docs/angular/navigation#live-example)

[**https://ionic-5-full-starter-app-docs.ionicthemes.com/navigation#initial-route-of-the-application**](https://ionic-5-full-starter-app-docs.ionicthemes.com/navigation#initial-route-of-the-application)

**Navigation and guard:**

[**https://devdactic.com/ionic-5-navigation-with-login/**](https://devdactic.com/ionic-5-navigation-with-login/)

[**https://ionicframework.com/blog/navigating-the-change-with-ionic-4-and-angular-router/**](https://ionicframework.com/blog/navigating-the-change-with-ionic-4-and-angular-router/)

**Param-Navigation params:**

[**https://www.youtube.com/watch?v=C6LmKCSU8eM**](https://www.youtube.com/watch?v=C6LmKCSU8eM)

**local storage to store data:**

[**https://www.youtube.com/watch?v=CnEcXXNUIEU**](https://www.youtube.com/watch?v=CnEcXXNUIEU)

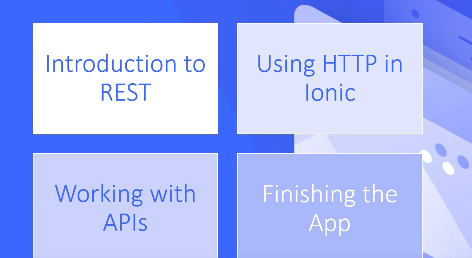
**Ionic 5 Custom Splash Screen with Lottie Cordova plugin 2020**

[**https://www.youtube.com/watch?v=ZA7QXOybzFo**](https://www.youtube.com/watch?v=ZA7QXOybzFo)

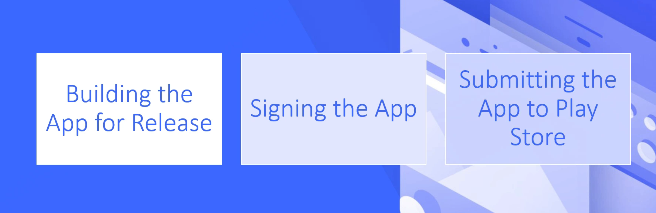
**Ionic 5 CRUD with Firebase Database | Sathish Kumar**

[**https://www.youtube.com/watch?v=aaXacQuPC78**](https://www.youtube.com/watch?v=aaXacQuPC78)

**ionic g service <servicename>**

****

[**https://openweathermap.org/api**](https://openweathermap.org/api)

****

**Chat System:**

[**https://github.com/techiediaries/chatkit-nestjs-ionic**](https://github.com/techiediaries/chatkit-nestjs-ionic)

[**https://www.techiediaries.com/angular/ionic-chat-ui-jwt-auth/**](https://www.techiediaries.com/angular/ionic-chat-ui-jwt-auth/)

**Creating Real time google play store realizing app:**

[**https://www.techiediaries.com/ionic-http-post/**](https://www.techiediaries.com/ionic-http-post/)

[**https://www.techiediaries.com/ionic-http-client/**](https://www.techiediaries.com/ionic-http-client/)

**Example : Rest api to pull data**

[**https://jsonplaceholder.typicode.com/users**](https://jsonplaceholder.typicode.com/users)

[**https://randomuser.me/api/?results=10**](https://randomuser.me/api/?results=10)

**To get api key need to follow below steps:**

1. **Need to create new account in (**[**https://openweathermap.org/**](https://openweathermap.org/) **) and using the api key**

**To get api key from google map:**

<https://developers.google.com/maps/documentation/maps-static/get-api-key>

<https://console.cloud.google.com/project/_/billing/enable>

[https://maps.googleapis.com/maps/api/staticmap?center=40.714%2c%20-73.998&zoom=12&size=400x400&key=**AIzaSyABxLKXVSpvFTUlxVzBf5qQZcr\_W8Y3JAY**](https://maps.googleapis.com/maps/api/staticmap?center=40.714%2c%20-73.998&zoom=12&size=400x400&key=AIzaSyABxLKXVSpvFTUlxVzBf5qQZcr_W8Y3JAY)

[Weather | Chennai, Tamil Nadu (msn.com)](https://www.msn.com/en-in/weather/today/Chennai,Tamil-Nadu,India/we-city?ocid=msedgntp&form=PRWLAS&iso=IN&el=BZx21Xd7oOo8EgUDKCTJFGo55Dp071GxQDq2g1SOLuF%2FX7akLussTXe7po%2FbtP9eoa463au66YwUlfQ5044eWLYiO0DlRjmdtLxewYoiR7K%2BRZXtSQPo5z8BRNeCrMYY)

<https://codecanyon.net/item/weather-app-ionic-5-angular-8-template/25406639>

1. Auto search & with Option of the city with state and country
2. **UI Alignment**
3. **Chat box with create a room**
4. **Trip Planner : Map with famous place of the location, eating place**

[**http://api.openweathermap.org/data/2.5/weather?q=chennai&appid=c73070baf8d2de20eb2c53730b753901**](http://api.openweathermap.org/data/2.5/weather?q=chennai&appid=c73070baf8d2de20eb2c53730b753901)

[**http://api.openweathermap.org/data/2.5/forecast?id=1264527&appid=c73070baf8d2de20eb2c53730b753901**](http://api.openweathermap.org/data/2.5/forecast?id=1264527&appid=c73070baf8d2de20eb2c53730b753901)

<http://api.openweathermap.org/data/2.5/forecast?id=1264527&appid=1e29c7cf24b76764b97a124d6425b3f5>

1. GPS & Save home location
2. Forcast for 7 days
3. Share to social media
4. Search engine
5. Map