**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>

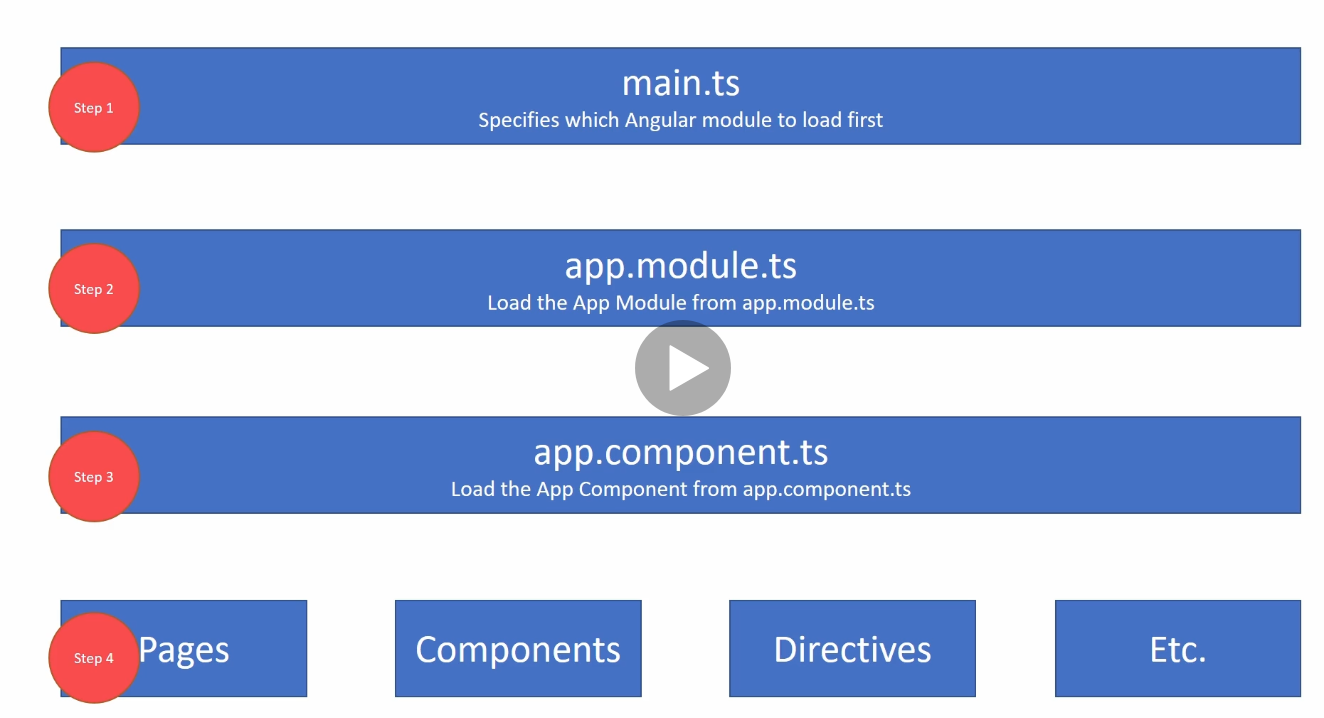
<https://stackoverflow.com/questions/28944494/warning-no-target-specified-deploying-to-emulator>

* **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:**

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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/)

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**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/)