Npm install –g ionic :

Test ionic : ionic -v

Npm install –g cordova : It acts as a intermediate between our application and the android

Test Cordova : cordova –v

Creating the first app :

**ionic start feedapp- - v2** (For angular2 we use - - v2)

tabs/blank/sidemenu

**npm install ionic cordova -g**

Version for cordova

**cordova –v**

Version for ionic

**ionic –v**

To Build the application :

Ionic serve

**Every files are in angular2**

**Different templates for ionic app**

So far, we saw the **default** template (=> ionic start PROJECT\_NAME --v2 ) and the **blank** template (=> ionic start PROJECT\_NAME blank --v2 ).

Other options are:

* **tabs** (ionic start PROJECT\_NAME tabs --v2 ) to start with a basic tabs navigation (you'll learn more about tabs in the next lectures!)
* **sidemenu** (ionic start PROJECT\_NAME sidemenu --v2 ) to start with a basic sidemenu navigation (you'll learn more about sidemenus in this course section!)
* **tutorial** (ionic start PROJECT\_NAME tutorial --v2 ) to start with the official Ionic 2 [tutorial](https://ionicframework.com/docs/v2/setup/tutorial/) setup

Different ways to create the ionic project :

ionic start myApp blank/tabs/**sidemenu** /tutorial --v2

Note : **--v2** command is used to create the ionic2 app (Angular2/4)

**ionic serve :** To start the application

Understanding the structure of ionic2 :

**node\_modules :** This folder is handeled by the npm (Node package manager)

**platform :** It simply contains all the platforms we have added to our project.Platform actually targets the machine for which we are developing our app.ie : android , ios

**Note** : We can add platform from the command too. Later on we will see this also.

**Plugins :** Plugins contains all the cordova plugins we requires.This contains all the native device features such as **camera , Bluetooth etc.** If we need to install some of new plugin’s we can do this through the command line.

**Resource :** Resource folder contains something we have in the deployment section. Here we can define our app icon , splash screen

**www :** This is a folder we do not need to touch. It is manged by the ionic 2. This is automatically created for us by **ionic serve** command

**config.app :** Here we can configure our app during the deployment. Like app name

**package.json** : This file contains all our dependencies.

**src :** This is very important component. **app** folder inside it contains our components. Inside **assets** folder we can store our images required by our application

**pages :** This is where we will store all our pages for the ionic 2 aplication.

**theme** : This folder allows us to adjust the theme of our application.

**declarations.d.ts :** Here we can store all our variables.

**index.html :** This actually starts our app.

**manifest.json and service-worker.js** are used to create progressive we app.

This will not compile to the nat**ive app** but it will install on our device directly from the web page.

**How ionic 2 works :**

Lets discuss on index.html. In this we can see **<ion-app> </ion-app>**selector there. It also contains cordova.js that contains some native device functionality.

**main.js** mainly bootstrap our application. It bootstrap the module that is app module.

**app.module.ts :** It is slight different from the normal angular2 module.Here we are bootstrapping the ionic app.

**a)bootstrap: [IonicApp]**

Note : In ionic 2 we have the **entryComponent** array.

**b)IonicModule.forRoot** : **It** is provided by ionic 2. IonicModule contains a lot of things like **forms module , http module.** We do not need to import them separately . They comes along with IonicModule.