Angular Doc.

Date: 14-08

Angular Installation :

Steps:

1) Install node js from this web site <https://nodejs.org/en/download/>

2) Create a folder in desktop "AngularApp" go to cmd open path location

3) run the command "npm install -g @angular/cli (g- global)" ([https://cli.angular.io](https://cli.angular.io/))

4) ng new MyAngularApp

5) go to myAngularApp ( cd myAngularApp)

6) ng serve --open.

Explanation :

package.json:

"dependencies": {

"@angular/animations": "~8.2.0",

"@angular/common": "~8.2.0",

"@angular/compiler": "~8.2.0",

"@angular/core": "~8.2.0",

"@angular/forms": "~8.2.0",

"@angular/platform-browser": "~8.2.0",

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},

"devDependencies": {

"@angular-devkit/build-angular": "~0.802.1",

"@angular/cli": "~8.2.1",

"@angular/compiler-cli": "~8.2.0",

"@angular/language-service": "~8.2.0",

"@types/node": "~8.9.4",

"@types/jasmine": "~3.3.8",

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}

**Dependencies and DevDependencies:**

The difference between these two, is that devDependencies are modules which are only required during development, while dependencies are modules which are also required at runtime.

Adding Another Dependencies:

To save a dependency as a devDependency on installation we need to do an

* npm install --save-dev, instead of just an npm install --save.
* A nice shorthand for installing a devDependency that I like to use is npm i -D.
* The shorthand for saving a regular dependency is -S instead of -D.

Angular.json:

Explaation please check this link " <https://angular.io/guide/workspace-config>".

Angular Flow and Entry Point:

**\*\*\*Bootstraping : Nothing but self starting process.**

**entry point of angualr appilication is : main.ts.**

main.ts file which contains this last line:

platformBrowserDynamic().bootstrapModule(AppModule)

platformBrowserDynamic() :

* The platformBrowserDynamic() part of this line of code indicates that we are about to boot Angular in a browser environment. As Angular can be used in Javascript host environments asides the browser (e.g. on the server or in a web worker), its thus imperative that we specify the environment in which our App is to be booted.

bootstrapModule() :

* The bootstrapModule() function helps bootstrap our root module taking in the root module as its argument.

AppModule:

* AppModule is our root module which is the entry module for our application, this can actually be any of the modules in our application but by convention AppModule is used as the root module.

App.module.ts:

* bootstrap[Appcomponent] : Loading app component.

Recap :

* Specify the enviroment in which your Angular App is running
* Use the bootstrapModule() function to boot your entry module by supplying the module as an argument.
* Inside the root module, specify your entry point component in the module configuration object.

Explanation For Appmodule:

An NgModule is defined by a class decorated with @[NgModule](https://angular.io/api/core/NgModule)(). The @[NgModule](https://angular.io/api/core/NgModule)() decorator is a function that takes a single metadata object, whose properties describe the module. The most important properties are as follows.

* declarations: The [components](https://angular.io/guide/architecture-components), *directives*, and *pipes* that belong to this NgModule.
* exports: The subset of declarations that should be visible and usable in the *component templates* of other NgModules.
* imports: Other modules whose exported classes are needed by component templates declared in *this* NgModule.
* providers: Creators of [services](https://angular.io/guide/architecture-services) that this NgModule contributes to the global collection of services; they become accessible in all parts of the app. (You can also specify providers at the component level, which is often preferred.)
* bootstrap: The main application view, called the *root component*, which hosts all other app views. Only the *root NgModule* should set the bootstrap property.

Example:

import { [NgModule](https://angular.io/api/core/NgModule) } from '@angular/core';

import { [BrowserModule](https://angular.io/api/platform-browser/BrowserModule) } from '@angular/platform-browser';

@[NgModule](https://angular.io/api/core/NgModule)({

imports: [ [BrowserModule](https://angular.io/api/platform-browser/BrowserModule) ],

providers: [ Logger ],

declarations: [ AppComponent ],

exports: [ AppComponent ],

bootstrap: [ AppComponent ]

})

export class AppModule { }