**STEP BY STEP GUIDE TO INSTALL NODE AND NODE MODULES (ANGULAR 4)**

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**Step to Install Node and Npm with Angular**

1. Download Node from [**https://nodejs.org/en/**](https://nodejs.org/en/) **(Get zip version if you don’t have admin access)**

2. Extract into C Drive (Path -> c:)

3. Open User Account from Control Panel.

4. Click on Change my **Environment Variable** from Left Side Panel

5. User User Variables Add/Modify **Variable = PATH ; Value=C:/nodejs**

6. Open **CMD** and type to check whether node is installed successfully

* node -v -> It should show u the node version
* npm –v -> it should u the npm version.

**(Follow step 7 only if your system is behind proxy setting)- else you can skip step 7**

7. To set proxy setting type the below command accordingly to ur system

**For NAM:**

npm config set proxy http://webproxy.wlb2.nam.nsroot.net:8080

npm config set https-proxy http://webproxy.nam.apac.nsroot.net:8080

**FOR APAC:**

npm config set proxy http://webproxy.wlb2.apac.nsroot.net:8080

npm config set https-proxy http://webproxy.wlb2.apac.nsroot.net:8080

8. To **Download Angular(v4)** Package type below command

npm install -g @angular/cli

**It will take some time to download. If it fails, the you have to change the proxy setting to other region from step 7.**

9. Once successfully done, create a **new angular project(my-app)** using the below command

ng new my-app

It will take some time to download (default download location -> C:\Users\YourUsername)

10. Once done type ng v in cmd it **should list the angular version**. Then angular latest package is installed successfully

**11. Go to the project directory and start the server.**

For Example, (we have created a project name my-app)

Change the directory to my-app cd c:\Users\YourUsername\my-app

**ng serve –open ->** Below command will start the server

Open done. Browser will launch MyApp with http://localhost:4200/

**12. To get started with any angular refer any tutorial page or https://angular.io/**

**FEW IMPORTANT TOPICS COVERED BELOW**

1. **Code to create a new module**

**ng g c module\_name**

where ->g is short for generate, c is short for component

1. **To Import external style and script there are two methods.**
2. **Using NPM**

* **Install bootstrap**

npm install bootstrap --save

After the installation of Bootstrap 4, we Need two More javascript Package that is JQuery and Popper.js without these two package bootstrap is not complete because Bootstrap 4 is using JQuery and popper.js package so we have to install as well

* **Install JQUERY**

npm install jQuery –save

* **Install Popper.js**

npm install popper.js --save

Now Bootstrap is Install on you Project Directory inside node\_modules Folder

**Open angular.json** this file is available on you angular directory**(my-app)** open that file and add the path of bootstrap, jquery, and popper.js files inside **styles[] and scripts[]** path see the below example

"styles": [

"../node\_modules/bootstrap/dist/css/bootstrap.min.css",

"styles.css"

],

"scripts": [

"../node\_modules/jquery/dist/jquery.min.js",

"../node\_modules/popper.js/dist/umd/popper.min.js",

"../node\_modules/bootstrap/dist/js/bootstrap.min.js"

],

**Note: Don't change a sequence of js file it should be like this**

1. **Adding in project index.html**

Just add the url inside as link (style and script tag) like usual in **index.html** file.

**Import Json Data To Your App**

**1. Open app.module.ts and add the below code for http service**

import { HttpClientModule } from '@angular/common/http'; /\*added for to read json\*/

Under Import array add HttpClientModule

**2. Create a json with the data inside asset folder**

**3. Open ur application ts file**

Import the below line

import { HttpClient } from '@angular/common/http';

import { HttpErrorResponse } from '@angular/common/http';

1. **Add the below line under class.**

constructor (private httpService: HttpClient) { }

createAName: string [];

ngOnInit () {

this.httpService.get('./assets/temp.json').subscribe(

data => {

this.createAName = data as string []; // FILL THE ARRAY WITH DATA.

// console.log(this.createAName[0]);

},

(err: HttpErrorResponse) => {

console.log (err.message);

}

);

}

Next call the json value where needed in html file to get the data and get it displayed.

Visit: [**https://angular.io/**](https://angular.io/) **for more detail on Angular 4**

**Angular 4 Editor -> Microsoft Visual Studio Code or Sublime Text Editor**

---MORE TOPICS TO BE UPDATED IN NEXT VERSION—