Angular

It is maintained by GOOGLE.

Open command prompt and check whether angular is installed.

C:\Users\mslceltp1045> **ng –version**

Create a folder in D drive and open that in Visual studio code.

## Now open terminal and give this command

PS D:\Bhuvanaa> ***ng new Event-App***

? Would you like to add Angular routing? ***No (away from techm network)***

? Which stylesheet format would you like to use? ***CSS***

This will Install Angular into your VS code.

# To install Angular in New machine/ workstation/ Home Laptop:

Open command prompt and give : **npm install –g @angular/cli**

Now check the command : **ng –version**

# What is Angular?

* Angular combines/bundles HTML, Javascript and CSS all together. And Makes that bundle a reusable one.
* Angular JS was used earlier.
* Angular Replaces Js with Type script. Type Script in turn creates a js.
* It helps to connect with middle ware like Java.
* It also has direct connectivity with No-SQL database like Mongo DB. For connecting with SQL database it has to be connected to middleware s/w like java or dotnet.

Note : React js is more powerful than Angular maintained by facebook. It uses javascript where as angular uses Typescript.

[\\172.18.37.21](file:///\\172.18.37.21)

Username: mslc/mslceltp1045

Pass:techm123$$

Annotations are called here as “Decorators”.

# Event-management project

You have src folder here. This is the main folder for all the codes.

Check whether you have boot strap folder and tether folder

## To install the folder in your Laptop/home:

npm install [bootstrap@3.4.1](mailto:bootstrap@3.4.1) - -save -> it ensures the downloaded file is stored in the local node module

npm i [toastr@2.1.2](mailto:toastr@2.1.2) - -save

npm install [tether@1.4.5](mailto:tether@1.4.5) - - save

npm i ngf – [bootstrap@0.0.5](mailto:bootstrap@0.0.5) - - save

npm i jquery - - save

Clear all the files in src/app folder for better understanding

main.ts -> it starts from here. Where the bootstrapping starts. The very first which gets bootstrapped.

*Note:*

*Class consists of variables and methods. if you want to class as a component class then use the metadata @component*

Now create event.module.ts and event.component.ts in app folder.

*Note: since its event management project you create it as event.module.ts. else you will create with different names like social.module.ts*

Now, Start from event.component.ts

Inside

@Component(

{

template -> is used to create a html template within the tag(**inline html**)

templateurl -> is used to call an html file like event.component.html (**external html**)

}

event.module.ts -> all the components of angular will be registered in module.ts. modules will only be delivered to angular engine. Angular engine will give it to bootstrap only then it will be rendered in the browser.

This is the file which will be given in main.ts

In main.ts (root)

You will have system generated code,

import { AppModule } from './app/app.module';

This can be modified according to your need.

import { EventModule } from './app/event.module';

*Note: All the components should be registered in modules like this in event.module.ts*

import { NgModule } from '@angular/core';

//Metadata

@NgModule(

{

declarations:[ EventComponent ], -> **you give as many as components here.**

imports:[BrowserModule], -> **all child modules or custom modules . It is used for importing other modules other than the root.**

bootstrap:[EventComponent] -> **The first file to get operated when launching the application. It will only have only one component.**

}

)

export class EventModule{

}

Give the selector name given in event.component.ts in index.html

@Component(

{

    selector:'event-app',

like,

<body>

  <!-- /<app-root></app-root> -->

  <event-app></event-app>

</body>

Comment the <app-root> and give <event-app>

## To run the project:

Open terminal and hit : ng serve -o

styles.css -> To give common css to the entire project give it here.

In index.html

<body class="container">

Is used to give a contained view in the browser

## For creating a component through terminal/ng

**ng g c event-list** -> ng generate component event-list

It creates a component by itself

The component will automatically be declared in event.module.ts

**ng g c /event/event-list –** to create a directory called event and under that you will have event-list inside which you will have event-list.component.ts

**ng g c /event/event-list - - flat** -> it is used to create a directory called event inside which you will have the component files directly without any sub folder

note:

* when you create a folder through ng/terminal it will have “app” prefix in selector. You have to change if needed.
* OnInit interface has an abstract method ngOnInit().
* OnDestroy interface has an abstract method ngOnDestroy().
* These two methods will get initialized after Instantiation. These methods are similar to init(),destroy() in servlets.

After creating a new component. In the new component’s component.ts file you have selector, template and styles where you give your template and styles like

**Event-list.component.ts**

@Component({

selector: 'event-list',

template: `

<h1> Event Management details </h1>`,

styles: ['']

})

If this is already used in any other component you can just delete the details from that component and give the name of the selector like this.

**Event.component.ts**

@Component(

{

selector:'event-app',

template :`<event-list></event-list>`, //like this and hence all the event-list.component.ts template will be used here

styles:[]

}

## Including the image:

@Component({

selector: 'event-list',

template: `

<h1> Event Management details </h1>

<hr>

<img src = "assets/images/angularconnect-shield.png">

<img src = {{imgSrc}}> **//string interpolation**

<img [src] = "imgSrc">`, **//property based binding**

styles: ['']

})

For using the property based binding we have to give the details in a variable like this inside the class,

export class EventListComponent implements OnInit,OnDestroy {

imgSrc:string = `assets/images/angularconnect-shield.png`

}

  <button (click) class="btn btn-primary">Click</button>

Btn is a boot strap class. Learn more on it

(click) is an event.

[] is for the property

<div \*ngFor="let event of events" class="col-md-5">

\*ngFor -> refers ng directive . whenever you see a \* it’s a directive given by angular.