1. Search angular CLI in google
2. Install node14.16
3. Install npm
4. Check the version for node and npm8.15 version in the command as node -v and npm-v.
5. Install angular by command “npm install -g @angular/cli”.
6. Ng help for everything.
7. Ng version
8. Create project(go to the place in the command line where you want to create a project then use the below command line.

ng new my-first-project

cd my-first-project

ng serve

1. Then go to browser and open the link localhost:4200

Project description:

1. We have an index file that runs first. We have tag <app-root></app-root> where all data comes from app components which is created by default.

2. It has a folder app called component, which has 6 files:

i) app-routing.module.ts: It is used for routing, which module we have to fire.

ii)app.component.css

iii)app.coponent.html

iv)app.module.ts : we have bootstrap :[AppComponent], declarations:[Appcomponent] it means it start from app component.

v)app.component.ts : Type script is a super set of javascript.

vi)app.component.spec.ts

3. If we want to change style globally we can use style.css, if we want to change style of a component then we can write code inside the component .css file. Main.ts.

4. We are using angular material so go to angular material in website.

5. Install angular material(version v11) as: “ng add @angular/material”

Uses components from Angular material website.

1. To use the button we have to first import API of the button from the angular material site.

Like: API: import {MatButtonModule} from ‘@angular/material/button’

1. open the file app.module.ts of the component then paste import {MatButtonModule} from ‘@angular/material/button’
2. add MatButtonModule in the imports: section of same file. Then we can use any button of angular material.
3. Install bootstrap grid system only for responsive design as npm install bootstrap-grid-only-css –save.
4. Go to angular.json file and write "./node\_modules/bootstrap-grid-only-css/dist/css/bootstrap-grid.min.css" Under styles.
5. If we want to use components repeatedly then we can push such components into the components folder if we open components by URL link then we can push them inside the pages folder. We need to create all the components inside the app components. The folders can be created as :

binodkathayat@Binods-MacBook-Pro app % mkdir components

binodkathayat@Binods-MacBook-Pro app % mkdir pages

components can be created as:

binodkathayat@Binods-MacBook-Pro components % ng g c navbar

(g for generate and c for components)

Note: Every generate components has 4 files: as navbar.component.css,

navbar.component.html, navbar.component.spec.ts and navbar.component.ts

1. We can use generated components by <app-navbar></app-navbar> can be found in the navbar.component.ts of selector.
2. We have file app-routing.module.ts for routing if we want to run any component with any route then we can use this file. Example: we have signuup component then we can write code as:

{

path : 'signup',

component: SignupCompnent,

pathMatch: 'full',

}

inside the const routes: Routes = [];

Then use <router-outlet><router-outlet> in the file app.coponent.html, the component will be displayed in the web page.

1. Now we can use code from angular material and insert it into signup.html page.
2. To submit form data we use form tag as <form (ngSubmit)="formSubmit()"> and then create method formSubmit() in signup.component.ts . the ngSubmit is a event.
3. We need data binding means first need to create an object in the signup.ts file and then pull the data of the form when typing in the form field by using {{user|json}} and change input type as [(ngModel)]="user.username" and name=”username” or simply we can say data binding means pull the values of forms.
4. To send data to the server from client application angular, we need to import

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

import { BrowserModule } from '@angular/platform-browser';

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

@NgModule({

imports: [

BrowserModule,

// import HttpClientModule after BrowserModule.

HttpClientModule,

],

declarations: [

AppComponent,

],

bootstrap: [ AppComponent ]

})

export class AppModule {}

1. We need create services for this we can create a folder as binodkathayat@Binods-MacBook-Pro app % mkdir services then we create service file as binodkathayat@Binods-MacBook-Pro services % ng g s user

Then create extra support file helper.ts and we can create let baseUrl="http://localhost:8000"

And export default baseUrl; we can export only one data at a time.