routerImportant topics: !

1.Modules

2.Components

3.Directives

4.Templates

5.Metadata

6.Pipes and filters

7.Routing

8.Services

9.Forms

10.Data Binding

11.Dependency Injection.

---------------------------------------------------------------------------

**Typescript installing**

>npm install -g typescritp (prssEnter)

create folder when ever you what to application for example we are creating on desktop folder name Typescript

open vsc(visul studio code) then Go to the files and select the Openfolder and select folder

**Extera pluges Installations:**

Auto Rename Tag

Bracket Pair Color DLW

npm Intellisense

Path Intellisense

Prettier - Code formatter

15:30 video

code converting typescript to javascript (transfiling)

before 14 v8 engine is convarting

ofter 14 angular introduced IV engine

**code transfiling(compling)**

>tsc main.ts (pressEnter)

now js file will come

node main

Imp(note)

**Note:**

1. we can write super keyword any ware in constructor
2. In a Typescript folder we have one mspaint folder, there we have diagrametic code.

**Angular Instaling -video-4**

**Note**: 1st we need to install **nodejs** then we can able to install Angular, in **typescript** section we installed **NodeJs**, so **Angular** directly we can able to install

Open cmd write command

>npm install –g @angular/cli@latest (or) >npm install –g @angular/cli **Note**:- no need to write **latest** automatically it will take latest version

Angular version checking command

* ng version

Only NodePackageManager version checking command is

* npm - -v

Node version checking command

* node -v

**Angular project Creation**

first create folder and open cmd go to that location then create project

**Note:-**

**1.**Angular Version 15 onwards by default **strict mode Enabled,** So iam disabling while creating the project, Command is EX: **--strict=false**

**2**.Version 15 or 16 onwards some people will get installing problem that is **installing strucked** that’s why we skiping Instaling command is EX: **--skip-install=true**

>ng new angularApp - -strict=false - -skip-install=true (pressEnter)

goto the VSC while creating the project "NODE\_MODULES" not installd why because we skiped up so

goto the terminal write command then it will installed command is (you are in application folder)

>npm install (pressEnter)

After this it will ask “Would you like to add Angular routing?” (Press) Yes

After it will ask Styles Select CSS

project will be created,

incase ower project got strocked means do fallow some steps it will work

>npm cache clean --force

>npm cache verify

then also not working means update npm

>npm install -g npm@latest

>npm install

Some time registerys are not registry, so you need to check

>npm get registry

Registry fail means you wont get this message that is **http://registry.npmjs.org/**

if not work set registry write command

>npm config set http://registry.npmjs.org/

then again check installed or not

>npm get registry

You will get this message <http://registry.npmjs.org/> Then it is registered(installed)

then again check installed or not

>npm install

Project Successfully creatd but Dependent Frameworks are pending

Program Executing(ruing) on terminal

>ng serve

Installing dependings

Note:-

TLS must be in -> 1.2 or 1.3 (note:- I think --> angular version 16 this update came)

go to the control paneel -->select large icons - > internat Option --> advanced --> drack dron you will find use TLS 1.2 and useTLS 1.3 select useTLS 1.3 and above and press OK.

Note: We are installing Bootstrap and Angular Material both so 1st we need to install Bootstrap. (Why because sum file will Override.)

1.Bootstrap (style perpose)

>npm install bootstrap - -save

Note:- any pluging,any dipendancy, any packages you will find in node\_modules

Insttalled bootstrap located in node\_modules we can’t use directly we need to give css path

Ofter installing Bootstrap it will not work give path of it,

Goto the Angular.json there give "Script[]" and "style[]" location

"styles": [

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

],

"scripts": [

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

]

2.Popper Installing

Installing Poppr (drap down buttons not work in bootstrap so 3rd partys are installing)

>npm install @popperjs/core --save

Note: Popper path you need to write Before Bootstrap if you give after Bootstrap it will not work.

"scripts": [

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

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

]

3. AngularMeterial

>ng add @angular/material

1. It will ask compatibility: (Press Yes)

2. It will ask colors: select what color you want by default it will show Indigo/Pink (press Yes) select it, if you want you can change later also

3. Angular Material typography (Press Yes)

4. Index.html also updated, So go to the index.html in body section **please remove** Class=”mat-typography” why because Angular Material typography Override to the Bootstrap so remove it.

Environments Folder Creating

Environments Folder was Removed in Angular so if you want you can create Command is

>ng g environments (PressEnter)

4.Font-awesom (different font style, specilazed stylesh icons perpose)

>npm install font-awesome --save

give path on angular.jsone in "style" location

"styles": [

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

"node\_modules/font-awesome/css/font-awesome.min.css"

],

Project Settup is Created

========================================================================================================================================

Application Creating: (Video-5)

Note:- if you want to create your Own web application first draw diagram on your book or do photo\_shop, or draw on mspaint. You will get sum clarity.

Creating Header for Project

1st create component

>ng g c components/header - -skip-tests=true (PressEnter)

you are created component it will not work, you need to add selector name app.component.html then only it will work

header.component.ts app.component.html

|-selector: 'app-header', 🡪 <app-header></ app-header>

Styles.css (globalStryles)

Entire Application purpose we are writing sum styles

Example:

:root{

--orange : #c25b02;

--black : #101010

--light-color: #666

--box-shadow: 0 0.2rm 0.5rem var(--orang);

--out-line: 0.1rem solid rgba(0,0,0,0.);

--border-hover: 0.2rem solid var(--black);

\*{

font-family:'poppins',sans-serif;

marging:0;

padding:0;

box-sizing:border-box;

outline:none;

border:none;

text-decorator: none !import;

transition : all 0.2s linear;

}

html{

font-size:62.5%;

overflow-x:hidder;

scroll-behavior:smooth;

scroll-padding-top:7rem;

}

==========================================================================================================================================

Creating Header : (Video-6)

Already we created one component “header” in that header we design.

Header.component.html

<header class="header">

<a href=" " class="logo">

<i class="fa fa-shopping-basket"></i>Mart

<!-- <i class="fa fa-globe fa-spin"></i>

<label>WebApp</label>

<i class="fa fa-globe"></i>WebApp

-->

</a>

<nav class="navbar">

<a href="">Home</a>

<a href="">Features</a>

<a href="">Products</a>

<a href="">Categories</a>

<a href="">Reviews</a>

</nav>

<div class="icons">

<div class="fa fa-bars" id="menu-btn"></div>

<div class="fa fa-search" id="search-btn"></div>

<div class="fa fa-shopping-cart" id="cart-btn"></div>

<div class="fa fa-user" id="login-btn"></div>

</div>

=======================================================================================================================================

Header component Related CSS defining time:-16:20 (video-7) Note:- How to increase Only icon size?

Again add add sum Search\_form in “header.components.html”

<form action="" class="search-form">

<input type="search" id="search-box" placeholder="search here...">

<label form="search-box" class="fa fa-search"></label>

</form>

Header CSS defining

header.component.css

.header{

position: fixed;

top: 0;

left: 0;

right: 0;

z-index: 1000;

display: flex;

align-items: center;

justify-content: space-between;

padding: 2rem 9%;

background: #fff;

box-shadow: var(--box-shadow);

}

.header .logo{

font-size: 2.5rem;

font-weight: bolder;

color:var(--black);

}

.header .logo i{

color: green;

}

.header .navbar a{

font-size: 1.7rem;

margin: 0 1rem;

color: var(--black);

}

.header .navbar a:hover{

color: var(--orange);

}

.header .icons div{

height: 4.5rem;

width: 4.5rem;

line-height: 4.5rem;

border-radius: 0.5rem;

/\* background: #eee; \*/

background: blue;

color: var(--black);

font-size: 2rem;

margin-left: 0.3rem;

text-align: center;

cursor: pointer;

}

.header .icons div:hover{

background: var(--orange);

color:#fff;

}

/\* hiding menu bars \*/

#menu-btn{

display: none;

}

.header .search-form{

position: absolute;

top:110%;

// right:2rem; // commented this line and we writed code .header .search-form.active , so below writed one line that is search box sending out of the screen

right:-110%;

width: 50rem;

height: 5rem;

background: #fff;

border-radius: 0.5rem;

overflow: hidden;

display: flex;

align-items: center;

box-shadow: var(--box-shadow);

}

.header .search-form input{

width: 100%;

height: 100%;

background: none;

text-transform: none;

font-size: 1.6rem;

color: var(--black);

padding: 0 1.5rem;

}

.header .search-form label{

font-size: 2.2rem;

padding-right: 1.5rem;

color: var(--black);

cursor: pointer;

}

.header .search-form label:hover{

color: var(--orange);

}

Note:-

If I press the search icone then only open search bar so write some external javascript code.

Goto assets -> create new folder, folder Name is “js” there create new file, file name is “scripts.js”

This will not work directly so you need to give path in angular.json in secript[] section.

EX:-

“script”:[

“src/assets/js/scripts.js”

]

Assets 🡪 js 🡪 scripts.js (write code)

window.onload = function(){

let searchForm = document.querySelector(‘.search-form’)

document.querySelector(‘#search-btn’).onclick = () =>{

searchForm.classList.toggle(‘active’) //this active custom class define in header.component.css

}

}

Goto header.component.css

.header .search-form.active{

right: 2rem ! important;

transition: .3s linear;

} // .header .search-form section remove right:2rem;

It will not work we writed javascript code so stop the server and start again it will work.

For Mobile version prepose writing MediaQueries and MeadiaQueries are last in css component

Header.components.css

@media screen and (min-device-width : 100px) and (max-device-width:914px){

.navbar{

display:none;

}

.header .search-form{

Width: 40%;

}

#menu-btn{

display: inline;

}

}

===============================================================================================================================================

**Side nave Creating** (Video-8) **not paracktesd** ,watched - done

We are using **AngularMaterial**

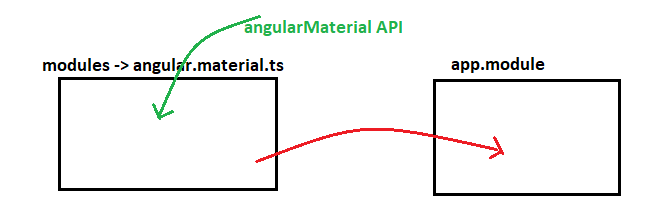
How to use?

1. Open browser search **material.angular.io** that is link open it keep it in one new tab
2. and click the **Components**
3. search or scroll down which option you want select it (for Example Button,menu,List..etc)
4. click the **API** and copy the below import line and past it in **app.module** under import section it will work. (don’t past here)  **//** we are created one new module for **AngularMaterial** past there, read below Note

**Note:-** (time:5:30) under **app.module** section components and modules are there it will be hug while moving to next level programming so we will get sum confuse

So for AngularMaterial parpose we are creating one new Module

and we will providing that module path to **app.module**



**ModuleCreating**

**Module creating for angularMaterial**

>ng g m modules/angularMaterial (presenter)

Open angularMaterial module there we will find sum un-nessary files **remove** it and **add** sum sections.

**Modules**

**|--** angular-material.modules.ts

Import {NgModule } from ‘@angular/core’;

Import {comonModule} from ‘@angular/common’; Remove it

Import { MatsidenavModule } from ‘@angular/matrial/sidenav’;

**Const materialComponents** =[ // go 1st Red color 2nd Yellow color 3rd Green color

MatsidenavModule // this is sidenav module

]

declaretions: [], Removie it

**imports:**[

ComonModules Remove it

**materialComponents**

],

**exports**:[ **materialComponents** ] Add exports

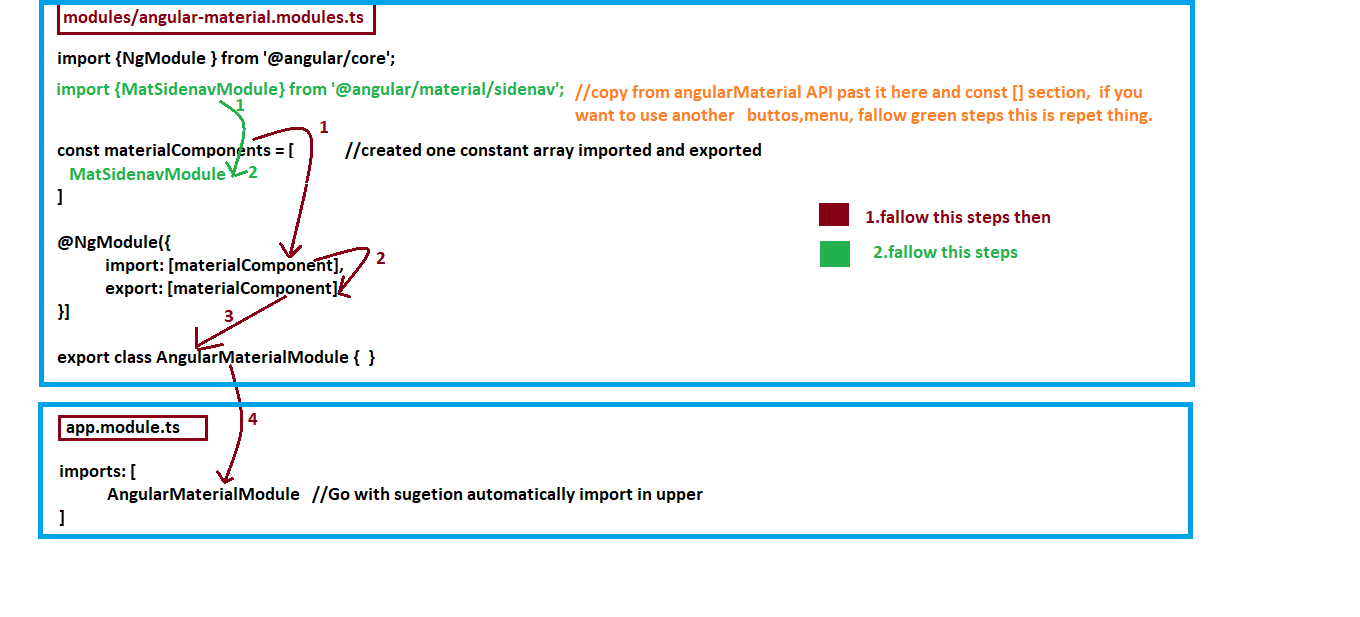
export class AngularMaterialModule { } // add this AngularMaterialModule class name in **app.module** under imports section.

**Open app.module**

Imports :[

AngularMaterialModule// taken from angular-material.modules.ts class Go with Sagition it will automatically imported path.

**]**



**Creating Sidenav Component**

>ng g c components/sidenav --skip-tests=true (presenter)

Open **sidenav.component.html**

<mat-drawer-container class=”teja-container” autosize> //in material updated **sidenave** To **drawer**

<mat-drawer class=”teja-sidenav” #drawer mode=”side” open> //mode hase 3 values push,side,over

<h3 style=”color: #fff” >Some Sidemenu item are here…</h3>

</mat-drawer>

<mat-drawer-content> //if I press the button or icone you will get information

<div class=”teja-sidenav-content”>

<mat-icon type=”button” //if you want use **icons** go to **angularmaterial** copy the **API** past it in **Modules.angularmaterial.ts** and use it.

Style=”font-size:18px; height:20px; width:50px; color: #000; top:170px” (click) =”drawer.toggle()”>menu // if you want icons and icon\_name goto the google search **material icons** you will find there for Exp : **menu** you will get harijantal barss

</mat-icon>

<div class=”pageContent”>

Main Content

</div>

</div>

</mat-drawer-content>

</mat-drawer-container>

**sidenav.component.css**

**.** teja-container{

Top:8.7rem;

Width:100%;

Height: calc(100vh – 0px);

Background: #fff;

}

. teja-sidenav{

Width: 27rem;

Padding: 20px;

Background: var(--orange);

}

. teja-sidenav-content{

Display: flex;

Height: inherit;

Align-items: flex-start;

Justify-content: flex-start;

}

. pageConten{

Margin-top: 1rem;

Font-size: 16px;

}

In App.component.html add sidenave component selector name

**App.compontnt.html**

<app-sidenav></app-sidenav>

And stop the server and start it will work.

**===============================================================================================================================================**

**Routing, PagenotFound (Videos-9) Note: Q) Routing not working?**

**(Ans)** add **<router-outlet></router-outlet>** in **app.component.html** it will work

Note:-taking reference from **cs world telugu** YouTube Chanel

Discussed with 3.mode in **sidenav.component.html**

1.over

2.push

3.side

Time:4:50

**Routing**

In **app.component.html** we are providing another component selector name we can’t provide every time so we are executing **app-routing.module.ts (**if we want execute **routerModule)**

We want display sum particular component  **for** example displaying sum home component in goto the **sidenav.component.html** inside write element

<div class=”pageContent”>

**<router-outlet></router-outlet> //with out this line RoutingModule not excute**

</div>

In terminal we are creating home component

>ng g c components/home --skip-tests=true (presenter)

Ofter creating home component doing configure

**App-router.module.ts**

Every Route take one Object,

Import { RouterModule , Routers } from ‘@angular/router’;

Const routers: Routes = [

**{**

**path: ‘ ‘,**

**redirectTo: ‘/home’, //localhost:4200/home**

**pathMatch: ’full’**

**};**

**{**

**path: ‘home’,**

**component: HomeComponent**

**};**

];

**PageNotFound**

**When we are Search unknown components we want sum replay like Page not fount so create one component**

>ng g c components/pagenotfound --skip-tests=true (presenter)

Again give **Routing path**

**Note: Page not found** Configuration must be a last, if you write before one component also control will not go after this pages remaining components not work so write last.

**App-router.module.ts**

Const routers: Routes = [

**{**

**path: ‘ ‘, //don’t give double space it will not work.**

**redirectTo: ‘/home’, //localhost:4200/home**

**pathMatch: ’full’**

**};**

**{**

**path: ‘home’,**

**component: HomeComponent**

**};**

**{**

**path: ‘\*\*’, //this will check before code then it is executed. This we called While card entry**

**component: PagenotFoundComponent**

**};**

];

Writing sum style in **Pagenotfound** component

**Page-not-found.html**

<h2 style=”color:#f00;”>Page NOT found! ! </h2>

**.environment**

**Environment.ts open it, Add one line of code**

**Export cost environment = {**

**production : false //we are dovelaping over application is development mode not Production mode**

**}**

**===============================================================================================================================================**

**(Video-10) not watching**

Previews class we desind side nav

This class in header section for user icon providing menu,so

Goto AngularMaterial Documentations click component and select Menu and copy Menu\_API and past it in AngularMaterial module.

We are writing menu for User icone that there in header section so goto the **header.component.html** Writing menu

**header.component.html**

ofter the header write element and using material menu, //**(doute)**Note: below line **Q)**what is Reference Name and what is Reference variable?

<mat-menu **#menu=”matMenu”** > // if I click user icon-button you want menu means use this template reference variables **#menu** this you can wire any name,and reference name must be **matMenu.**

<**button** class=”menu-item” **mat-menu-item** ><**mat-icon**>account\_circle</**mat-icon**><**span** class=”size”>Register</**span**></**button**> //if you want different material icons go and Google search

//in button style purpose providing **class=”menu-item”**// **<mat-icon>** element is Registration icon purpose using , // span element for Text and **class=”size”** is style purpose.//you will get proper menu for this line **mat-menu-item** with out this line menu is horizontal style Like side by side.

<**button** class=”menu-item” **mat-menu-item**><**mat-icon**>exit\_to\_app</**mat-icon**><**span** class=”size”>Login</**span**></**button**>// for this **mat-menu-item** you willget proper menu list one by one,

<**button** class=”menu-item” **mat-menu-item** ><**mat-icon**>power\_settings\_new</**mat-icon**><**span** class=”size”>Exit</**span**></**button**>

<mat-menu>

Save it and execute it will not work why because we are not calling user icon element.

Goto the upper side user icon line <div class=”fa fa-user” id=”login-btn”></div> provide link

**<div** class=”fa fa-user” id=”login-btn”**[matMenuTriggerFor]**=”**menu**”>**</div>** //using property binding **[],** and add Reference name that is **menu** save it and execute will work.

//but menu not came vertical means line by line not came, so add property in every button section that is **mat-menu-item** you will get proper menu under <mat-menu> section

**header.component.css**

adding styles of user icon menu

**.size:hover{**

font-size: 20px **!important**; //this is must be important so we are adding **!important**

**}**

**.menu-item:hover, mat-icon:hover{**

color: var(--orange) **!important**;

**}**

**Watch time after 15:00**

**===============================================================================================================================================**

!

**creating environment folder goto terminal**

>ng g environments

**Creating Component**

Goto the terminal

>ng g c components/header --skip-tests=true

take selector name and past it rootcompont.html then it work

**Stryle.css (this is global style shetes)**

defining own color global section

**Modulare creating (for angularMaterial)**

>ng g m modules/angularMaterial

screan clear command

>\! cls

Installing

-----------

NGX-UI-LOADER - TDEV (goto googlecrome serch "ngx-ui-loader" there you find sum spners)

NodeMailer instaling in BackEnd

>npm install nodemailer --save

Mysql downloading

------------------

mysql downloading

fallow this link for mysql instalation process https://www.youtube.com/watch?v=k5tICunelSU

goto google search mysql select downloads option and drack down select "MySQL Community (GPL) Downloads »" option

and click "MySQL Installer for Windows" option and click download option you will get one more page come down select "No thanks, just start my download." option

port number: 3306

password :Welcome@123

**ofter installing you will face sum problem then write this command:**

>ALTER USER 'root'@'localhost'

IDENTIFIED WITH mysql\_native\_password

BY 'Welcome@123';

**and open new tab write this command**

>flush privileges;

**mysql database commands:**

**checking version**

opne cmd

>mysql --version

**mysql loging**

>mysql -u root -p (pressEnter)

Enter password: \*\*\*\*\*\*\*\*\*\*\* (this is password "Welcome@123")

**checking database**

>show databases; (pressEnter)

creating database(i think ower dbtable creating)

>create database Tejadb; (pressEnter, database is created check database >show databases; (pressEnter))

**Mysql commands:**

>use cp\_partsdb;

>create table user(

id int primary key AUTO\_INCREMENT,

name varchar(100),

contactNumber varchar(20),

email varchar(100),

password varchar(100),

status varchar(20),

role varchar(20),

UNIQUE(email)

);

>insert into user(name, contactNumber, email, password, status, role) value ('admin','967630950','nteja603@gmail.com','admin','true','admin');

>SELECT \* FROM cp\_partsdb.user;

>delete from user where email='smith@gmail.com'

Ruing the program we need to start servers

-------------------------------------------

1. start mysql

2. start BackEnd server(splect the terminals one is Backend and Second is FrontEnd)(goto the BackEnd terminal start it))

>npm start (or) >node server

3. start FrentEnd (goto forentEnd terminal start it)

>ng serve

**Note:** !

lts 1.2 is last in my systm 1.3 not avalable

close icone not came video No-7

first time compailation time compailer will ask annomas Google under google polices etc...=> press "NO"

**change directory (cd)**

>cd BackEnd (if you forgot this command use this) >cd ./BackEnd (pressEnter it will go forward)

>cd ..\ (pressEnter it will go Backward)

**Lazy Loading ModuleCreatin Command**

>ng g m modules/dashboard --route dashboard --module app.module.ts

**De-coding**

>npm install jwt-decode - -save

**Services files creating**

>ng g s services/dashboard - -skip-tests=true (presenter)

------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**Command for creating :**

**Component Creating command**

>ng g c components/header - -skip-tests=true (presenter)

**Note**:- iam writing this command (**- -skip-tests=true)** is **spec** file skipping purpose, spec file is **unit testing** purpose will use,

**Module Creating Command**

>ng g c modules/angularMaterials

**Services Creating Command**

1. >ng g s services/dashboard - -skip-tests=true (presenter)

2. >ng g s services/routeGuard --skip-tests=true (presenter)

**Interceptor Creating :** (this is also part of the service)

3.> ng g interceptor services/tokenInterceptor --skip-tests=true (presenter) **Note:-** if you are created **Interceptor** Service, normal provide is not acceptable,so

give Object type **for Example** :- **{**

**provide: HTTP\_INTERCEPTORS,**

**useClass: TokenInterceptorInterceptor,**

**multi:true**

**},**

4.

If you create any **services** goto **app.moduls.ts (rootmodule)** add in **providers,** those are in **app.modules.ts** 🡪 **providers[]** Section

**Ex:-**

**providers**: [

UserService,

SnackbarService,

DashboardService,

RouteGuardService,

**{**

**provide: HTTP\_INTERCEPTORS,**

**useClass: TokenInterceptorInterceptor,**

**multi:true**

**}**

],

Note:- (my doute) (i pressed y)

PS G:\AngularNew\angularApp> ng serve

? Would you like to share pseudonymous usage data about this project with the Angular Team

at Google under Google's Privacy Policy at https://policies.google.com/privacy. For more

details and how to change this setting, see https://angular.io/analytics. (y/N)

**===>"press" N (enter)**

**Note:-**

TLS must be in -> 1.2 or 1.3

serching process

go to the control paneel -->select large icons - > internat Option --> advanced --> drack dron you will find **use TLS 1.2** and **useTLS 1.3** select **useTLS 1.3** and above,

CSS:-NOTE

1. if i Give 2 value those are TOP and BOTOM,
2. In html if you wite class in CSS give .(dote) to write code , in html if you wire “id” in CSS write # (i need more clarity on “id”)