Day 19 : 22 Nov 2024 CB FSD - Planning and UI Design

Angular CLI (Command Line interface) which help to create angular project template.

npm install -g @angular/cli@16.0.1

ng version

create separate folder as angular programs

syntax to create the angular project

ng new project-name

ng new welcome-app

routing -🡪N

styling 🡪css

after project creation done. We need to move inside a project folder using cd command.

cd welcome-app

to run the angular project we need to run the command as

ng serve -open

or

ng serve -o

then it will compile the project and after compile it will open in your machine default browser with URL as

<http://localhost:4200>

open the project in VS code

then

src 🡪 app

app.component.html

(in angular html file is known as template file. Inside this file we can do some dynamic coding).

app.component.css

app.component.ts

angular use few decorator.

Decorator : it is a type function which help to apply special behaviour of class or function. Decorator also known as meta-data. Data about data. Angular created lot of pre-defined decorator to apply special behaviour for class.

Like @Component, @NgModule, @Injectable, @Input,@Ouput, @Pipe etc.

Component is use to control the view or part of view of web page.

@Component decorator contains few attribute

selector : using this attribute we can create user defined tag. templateUrl: this attribute is use to connect html page.

styleUrl: this attribute is use to connect css file like link tag in normal html.

app.module.ts

modules : is a collection of component, service, pipe or other file.

@NgModule decorator :

Attribute for NgModule decorator

declaration : in this section we need to provide all component details.

imports : we can import pre defined or user defined modules.

BrowserModule : this module help us do display .ts file code on browser.

Providers : inside this section can provide angular service class details.

bootstrap : this section provide use parent component to load initially.

Login module

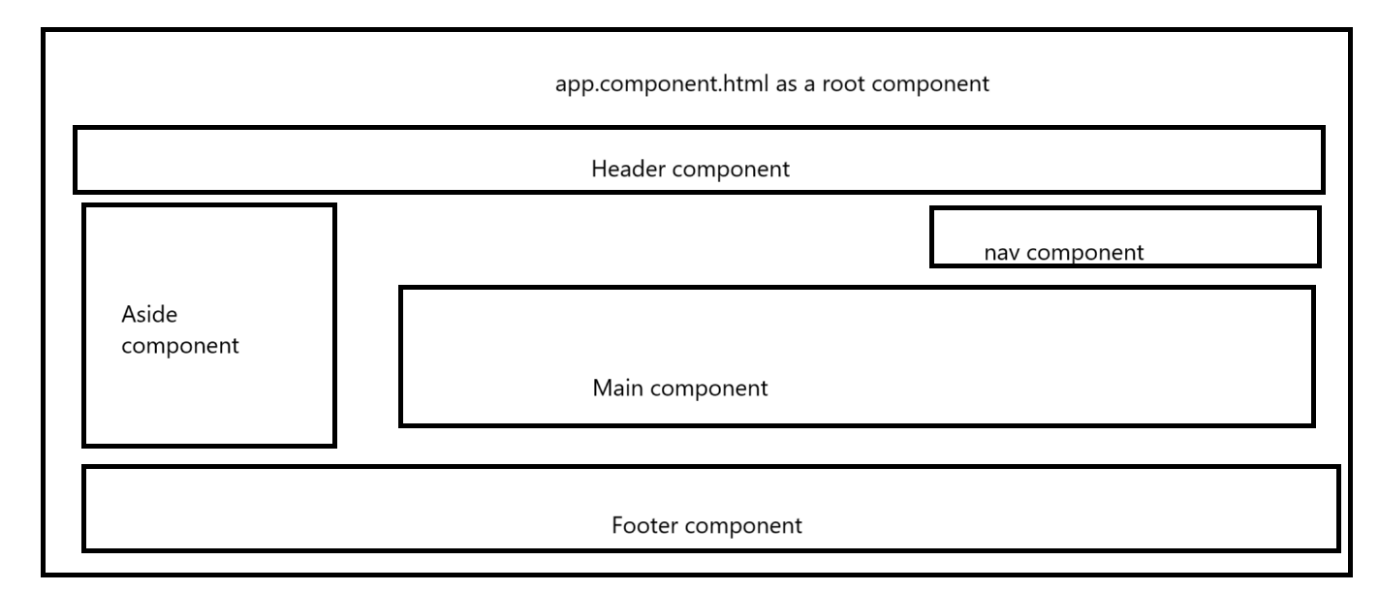
SignIn 🡪like component

SignUp 🡪 like component

Customer module

Account module

index.html first page which contains our root component selector <app-root></app-root>



Using angular cli we can create user defined component

ng generate component componentname

Or

ng g c componetname

ng g c header

ng g c footer

data binding

data binding help use to share the data or variable between component to ts or vise-versa.

1. One way data binding
   1. String interpolation : it is type of one way data binding which help to share data between component to view

ts(component) ----------------🡪html page (view)

syntax

{{}}

{{variableName}}

{{10+30}}

{{functionName()}}

ng g c string-interpolation

* 1. Event binding : it is a type of one way data binding which help to generate the event. The flow of even binding html page to ts file

.html (template)-----------------------🡪.ts (file)

Angular use same event which provided by JS only different on pre-fix remove and all event name wrap with ()

JavaScript event Angular event

onClick (click)

onDblClick (dblclick)

onSubmit (ngSubmit)

ng g c event-binding

1. Two way data binding

Whenever we do any changes in html or component it must effect on both the side.

* 1. We can combine event binding with string interpolation to achieve two way data binding.
  2. We can take help of ngModel attribute part of FormsModule which help to achieve two way data binding without event concept.

Template reference

So if we want to pass any tag element value to ts. In angular we use template reference concept.

<input type=”text” #nameRef/>

Template reference start with pre-fix # followed by some name.

nameRef is object or reference of text field which contains value attribute which help to receive the value in .ts file.