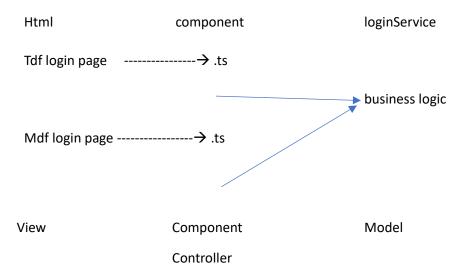
### Service layer or class

If we write any simple or complex business logic in component That logic consider as local to that component which we can Access within that component or that component html page But we need to logic must global for more than one component Then we need to use service class.



MVC: Model View controller

In every component we are creating object of service class using new keyword. Because

Service is normal type script class not an angular service class. But in angular we are not creating

Object of component class because component is a type of special class with decorator

#### @Component.

If we want to create object of service class by container then we need to write a class With decorator as <a href="Months of the container then we need to write a class">Months of the container then we need to write a class of the container then we need to write a class of the container then we need to write a class of the container then we need to write a class of the container then we need to write a class of the container then we need to write a class of the container then we need to write a class of the container then we need to write a class of the container then we need to write a class of the container then we need to write a class of the container then we need to write a class of the container then we need to write a class of the container then we need to write a class of the container then we need to write a class of the container then we need to write a class of the container then we need to write a class of the container then we need to write a class of the container the

Now we need to provide service class details in app.module.ts file in provider section.

In every component base upon requirement, we need to pull the object from a container using constructor with DI (dependency injection).

constructor(public loginService:LoginService) { }

flow of the application

html or view ------ $\rightarrow$  component .ts ----- $\rightarrow$  service .ts

Angular provided pre defined service class ie HttpClient.

Using HttpClient service we can call backend technologies Rest full web service.

# **REST** (Representation State Transfer).

REST API

In Rest API we can consume and produce data in the form of JSON.

Frontend REST API backend

Java

Python

Node js

Using HttpClient we can consume Rest API develop in any language.

# ng new angular-fake-service

routing  $\rightarrow$  no

css → styling

#### cd angular-fake-service

ng g c product product component

ng g s product product service

ng g class product model class (this class map to json data retrieve from rest api)

now open the project in vs code

ng serve -o

in user defined service ie product service class we need to do the DI for

HttpClient API.

HttpClient provide http protocol methods

le

get, post, put and delete

all these method return type is Observable.

Observable is a pre defined object part of rxjs which help to handle

asynchronous event of data. Rsjx means Reactive JS

If we want to load the data from observable we need to take the help of

Subscribe function.

This function takes 3 parameter as callback.

1<sup>st</sup> parameter next: it is use to load the data one by one

 $2^{\text{nd}}$  parameter error : while loading or beginning or end if any error generate then

2<sup>nd</sup> parameter get called.

3<sup>rd</sup> parameter complete: after loaded successfully third parameter get called.

In app.module.ts file we need to import

HttpClientModule in import section.

Whenever we do DI for HttpClient in service layer or class.

We need to import HttpClientModule in app.module.ts file in import section.

app.component.html --→ parent component

inside this component html page we use selector of product component.

<app-product></app-product>

product.component.html→

2 button

First button display product details in browser console

It will call function

In product.component.ts file

We created di for service class and call service methods.

Second button display product details on browser.

In service layer we need to do the DI for HttpClient. Import HttpClient

Whenever we do the DI for HttpClient we need to import HttpClientModule in app.module.ts file.