Angular JS

When we talk about angular js

We think that angular can be only used with the node.js

We can use angular for front end :- presentation layer can be created in angular and we can create a business logic in any of language we know

Business logic written in

Node, php, sevlet, jsp, spring rest, spring boot, asp.net, python.

Angular js front end

To install the angular on our machine, we run the following command

Goto command prompt and run

Npm install -g @angular/cli

This will install the angular

To check which version is installed

You have to run

Ng –version or ng -v

Ng new appname

In angular we are having

Structure for html pages

App.component.spec.ts

App.component.ts

App.component.html

App.component.css

Typescript provides us expression language to print variables on html pages by putting {{variable name }}

To create our own component we need to run the command

Ng generate component componentname

Ng g c componentname

For adding support for bootstrap and jquery we need to run following commands

Npm install bootstrap

Npm install jquery

Routing in angular

Home about us , contactus faq, service

App-routing.module.ts

In app.component.html file we need to provide links first

<a href=””> </a> this is for normal calling html pages from server

<a routerLink=”url”></a> url mention here must be same as given in app.routing.module.ts file in routes array

To display other component on the basis url we need to call them in side

<router-outlet></router-outlet>

Display data on pages with the help of class variables:- this is going to be dynamic in our website when we connect it to rest api of any server

Steps:- create a class export it and creates it object in any component where you want to populate the data

ngFor():-

ngIf()

ngClass()

for of (variable of list)

Form Validation in Angular :-

For form validation we need following components in our current page

FormGroup, FormControl, Validators , FormBuilders

[formGroup]=

\*ngIf

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In angular we can not send or receive data directly from the server

Angular form does not know how to save the data or where to save the data.

In that case angular has provided us the feature of services

Service layer is going to be save or fetch data from the server .

Steps to create an angular service(s)

Ng generate service servicename

Employee Table in our database :-

We are going to fetch the data from Student Table:

Now we need a class which is model for Student table

After that we will create a file name StudentService

getListOfStudent

now we will create the form for sending data to server

ngModel directive it is use for two way binding with class Variable and form input fields

[(ngModel)]=”name of class variable”

Inside Student form.ts file we need to provide entry for StudentService

ActivatedRoute, router

We have successfully created the front end for sending data to server

Now time to create the server REST API to fetch/show/delete/update the records

In our spring boot application :-

We are going to creates the methods to save the records

On server we have created the student class / model class

@RequestBody

Observables which provides support for passing messages between parts of our applications.

Role of subscribe method is to publish data.