Controllers

A controller is defined using ng-controller directive. A controller is a JavaScript object containing attributes/properties and functions. Each controller accepts $scope as a parameter which refers to the application/module that controller is to control.

<div ng-app = "" ng-controller = "studentController">

</div>

<script>

function studentController($scope) {

$scope.student = {

firstName: "Mahesh",

lastName: "Parashar",

fullName: function() {

var studentObject;

studentObject = $scope.student;

return studentObject.firstName + " " + studentObject.lastName;

}

};

}

</script>

Data Binding

**app.module.ts**, we have to now include the form module as shown below −

1-Add component.ts fie

export class UserComponent implements OnInit {

name:string;

};

3-then add component.html file

<form>

<div>

<label for="name"> Name</label>

<input type="text"[(ngModel)]="name" name="name">{{name}}

</div>

</form>

Scopes

Scope is a special javascript object which plays the role of joining controller with the views.

***Factory Provider* -**Gives us the function's return value ie. You just create an object, add properties to it, then return that same object.When you pass this service into your controller, those properties on the object will now be available in that controller through your factory.

Syntax: **module.factory('factoryName', function);**

***Service Provider***

* Gives us the instance of a function (object)- You just instantiated with the ‘new’ keyword and you’ll add properties to ‘this’ and the service will return ‘this’.When you pass the service into your controller, those properties on ‘this’ will now be available on that controller through your service

# Routing

**app.module.ts**, we have to now include the router module as shown below –

import { RouterModule, Routes } from '@angular/router';

**then import**

imports: [

BrowserModule,

FormsModule,

HttpClientModule,

RouterModule.forRoot(routes)

],

->Then add router path

let routes:Routes = [

{

path:"features",

component:FeaturesComponent

},

{

path:"pricing",

component:PricingComponent

},

{

path:"post",

component:PostComponent

}

]

Then add app.component.html router code link

# Web site code

# 1-app.component.html

<nav class="navbar navbar-expand-lg navbar-light bg-light">

<a class="navbar-brand" href="#">Navbar</a>

<button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNavDropdown" aria-controls="navbarNavDropdown" aria-expanded="false" aria-label="Toggle navigation">

<span class="navbar-toggler-icon"></span>

</button>

<div class="collapse navbar-collapse" id="navbarNavDropdown">

<ul class="navbar-nav">

<li class="nav-item active">

<a class="nav-link" routerLink="">Home <span class="sr-only">(current)</span></a>

</li>

<li class="nav-item">

<a class="nav-link" routerLink="features">Features</a>

</li>

<li class="nav-item">

<a class="nav-link" routerLink="pricing">Pricing</a>

</li>

<li class="nav-item">

<a class="nav-link" routerLink="post">Post</a>

</li>

</ul>

</div>

</nav>

<div class="jumbotron">

<h1 class="display-4">Hello, world!</h1>

<p class="lead">This is a simple hero unit, a simple jumbotron-style component for calling extra attention to featured content or information.</p>

<hr class="my-4">

<p>It uses utility classes for typography and spacing to space content out within the larger container.</p>

<p class="lead">

<a class="btn btn-primary btn-lg" href="#" role="button">Learn more</a>

</p>

</div>

<div class="container-fluid">

<div class="row">

<div class="col-sm-8"><router-outlet> <h2>data fetch in json place holder api </h2></router-outlet>

<div id="data" \*ngFor="let r of result[0]">

<h3>{{ r.title }} </h3>

<p>{{ r.body }} </p>

</div>

</div>

<div class="col-sm-4"> <app-sidebar></app-sidebar></div>

</div>

</div>

<div class="container-fluid">

<div class="row">

<div class="col-sm-12" ><app-footer></app-footer></div>

</div>

</div>

**2-App.component.ts**

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

import { ServicefetchService } from './servicefetch.service';

@Component({

selector: 'app-root',

templateUrl: './app.component.html',

styleUrls: ['./app.component.css']

})

export class AppComponent {

title = 'app';

result: any;

constructor(private \_fetchData: ServicefetchService){

this.result = \_fetchData.\_data;

}

}

**3-App.module.ts**

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

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

import { FormsModule } from '@angular/forms';

import { RouterModule, Routes } from '@angular/router';

import { FetchService } from './fetch.service';

import { ServicefetchService } from './servicefetch.service';

import { AppComponent } from './app.component';

import { FeaturesComponent } from './features/features.component';

import { PricingComponent } from './pricing/pricing.component';

import { SidebarComponent } from './sidebar/sidebar.component';

import { FooterComponent } from './footer/footer.component';

import { PostComponent } from './post/post.component';

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

let routes:Routes = [

{

path:"features",

component:FeaturesComponent

},

{

path:"pricing",

component:PricingComponent

},

{

path:"post",

component:PostComponent

}

]

@NgModule({

declarations: [

AppComponent,

FeaturesComponent,

PricingComponent,

SidebarComponent,

FooterComponent,

PostComponent

],

imports: [

BrowserModule,

FormsModule,

HttpClientModule,

RouterModule.forRoot(routes)

],

providers: [FetchService,ServicefetchService],

bootstrap: [AppComponent]

})

export class AppModule { }

**4-fetch.servise.ts**

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

@Injectable()

export class FetchService {

data:any;

constructor() {

this.data=[

{

id:1,

title:'first data',

body:'first body',

},

{id:2,

title:'second data',

body:'second body',

}

] }

}

**5-Servicefatch.service.ts**

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

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

@Injectable()

export class ServicefetchService {

public \_data: Array<any> = [];

constructor(private \_http: HttpClient) {

\_http.get('https://jsonplaceholder.typicode.com/posts')

.subscribe(result => this.\_data.push(result), err => console.log(err),

() => console.log('fetching data done...'));

}

sendData(){

}

}

**Create a component features , footer, post, pricing, sidebar**

**1- features.component.html**

<div id="accordion">

<div class="card">

<div class="card-header" id="headingOne">

<h5 class="mb-0">

<button class="btn btn-link" data-toggle="collapse" data-target="#collapseOne" aria-expanded="true" aria-controls="collapseOne">

Collapsible Group Item #1

</button>

</h5>

</div>

<div id="collapseOne" class="collapse show" aria-labelledby="headingOne" data-parent="#accordion">

<div class="card-body">

Anim pariatur cliche reprehenderit, enim eiusmod high life accusamus terry richardson ad squid. 3 wolf moon officia aute, non cupidatat skateboard dolor brunch. Food truck quinoa nesciunt laborum eiusmod. Brunch 3 wolf moon sustainable VHS.

</div>

</div>

</div>

<div class="card">

<div class="card-header" id="headingTwo">

<h5 class="mb-0">

<button class="btn btn-link collapsed" data-toggle="collapse" data-target="#collapseTwo" aria-expanded="false" aria-controls="collapseTwo">

Collapsible Group Item #2

</button>

</h5>

</div>

<div id="collapseTwo" class="collapse" aria-labelledby="headingTwo" data-parent="#accordion">

<div class="card-body">

Anim pariatur cliche reprehenderit, enim eiusmod high life accusamus terry richardson ad squid. 3 wolf moon officia aute, non cupidatat skateboard dolor brunch. Food truck quinoa nesciunt laborum eiusmod. Brunch 3 wolf moon tempor, sunt aliqua put a bird on it squid single-origin coffee nulla

</div>

</div>

</div>

<div class="card">

<div class="card-header" id="headingThree">

<h5 class="mb-0">

<button class="btn btn-link collapsed" data-toggle="collapse" data-target="#collapseThree" aria-expanded="false" aria-controls="collapseThree">

Collapsible Group Item #3

</button>

</h5>

</div>

<div id="collapseThree" class="collapse" aria-labelledby="headingThree" data-parent="#accordion">

<div class="card-body">

Anim pariatur cliche reprehenderit, enim eiusmod high life accusamus terry richardson ad squid. 3 wolf moon officia aute, non cupidatat skateboard dolor brunch. Food truck quinoa nesciunt laborum eiusmod. Brunch 3 wolf moon tempor, sunt aliqua put a bird on it squid single-origin coffee nulla

</div>

</div>

</div>

</div>

**i-features.component.ts**

import { Component, OnInit } from '@angular/core';

@Component({

selector: 'app-features',

templateUrl: './features.component.html',

styleUrls: ['./features.component.css']

})

export class FeaturesComponent implements OnInit {

constructor() { }

ngOnInit() {

}

}

**2-post.component.html**

<div class="blog-post" \*ngFor="let post of post">

<h2 class="blog-post-title">{{post.title}}</h2>

<p class="blog-post-meta">{{post.body}} </p>

</div>

**3-post.component.ts**

import { Component, OnInit } from '@angular/core';

@Component({

selector: 'app-post',

templateUrl: './post.component.html',

styleUrls: ['./post.component.css']

})

export class PostComponent implements OnInit {

post=[];

constructor() {

fetch("https://jsonplaceholder.typicode.com/posts")

.then((res) => res.json())

.then((data) => this.post = data)

.catch((err) =>console.log(err))

}

ngOnInit() {

}

}

**4-Pricing.component.html**

<ul id="data" \*ngFor="let r of result">

<li>{{r.title}} </li>

<li> {{r.body}}</li>

</ul>

<form class="needs-validation" novalidate>

<div class="form-row">

<div class="col-md-4 mb-3">

<label for="validationTooltip01">First name</label>

<input type="text" class="form-control" id="validationTooltip01" placeholder="First name" value="Mark" required>

<div class="valid-tooltip">

Looks good!

</div>

</div>

<div class="col-md-4 mb-3">

<label for="validationTooltip02">Last name</label>

<input type="text" class="form-control" id="validationTooltip02" placeholder="Last name" value="Otto" required>

<div class="valid-tooltip">

Looks good!

</div>

</div>

<div class="col-md-4 mb-3">

<label for="validationTooltipUsername">Username</label>

<div class="input-group">

<div class="input-group-prepend">

<span class="input-group-text" id="validationTooltipUsernamePrepend">@</span>

</div>

<input type="text" class="form-control" id="validationTooltipUsername" placeholder="Username" aria-describedby="validationTooltipUsernamePrepend" required>

<div class="invalid-tooltip">

Please choose a unique and valid username.

</div>

</div>

</div>

</div>

<div class="form-row">

<div class="col-md-6 mb-3">

<label for="validationTooltip03">City</label>

<input type="text" class="form-control" id="validationTooltip03" placeholder="City" required>

<div class="invalid-tooltip">

Please provide a valid city.

</div>

</div>

<div class="col-md-3 mb-3">

<label for="validationTooltip04">State</label>

<input type="text" class="form-control" id="validationTooltip04" placeholder="State" required>

<div class="invalid-tooltip">

Please provide a valid state.

</div>

</div>

<div class="col-md-3 mb-3">

<label for="validationTooltip05">Zip</label>

<input type="text" class="form-control" id="validationTooltip05" placeholder="Zip" required>

<div class="invalid-tooltip">

Please provide a valid zip.

</div>

</div>

</div>

<button class="btn btn-primary" type="submit">Submit form</button>

</form>

**5-pricing.component.ts**

import { Component, OnInit } from '@angular/core';

import { FetchService } from '../fetch.service';

@Component({

selector: 'app-pricing',

templateUrl: './pricing.component.html',

styleUrls: ['./pricing.component.css']

})

export class PricingComponent implements OnInit {

result:any;

constructor(private \_fetch:FetchService) { }

ngOnInit() {

this.result = this.\_fetch.data;

}

}

**Sidebar.component.htm**

<div class="list-group">

<a href="#" class="list-group-item list-group-item-action active">

Cras justo odio

</a>

<a href="#" class="list-group-item list-group-item-action">Dapibus ac facilisis in</a>

<a href="#" class="list-group-item list-group-item-action">Morbi leo risus</a>

<a href="#" class="list-group-item list-group-item-action">Porta ac consectetur ac</a>

<a href="#" class="list-group-item list-group-item-action disabled">Vestibulum at eros</a>

</div>

**6-Sidebar.component.ts**

import { Component, OnInit } from '@angular/core';

@Component({

selector: 'app-sidebar',

templateUrl: './sidebar.component.html',

styleUrls: ['./sidebar.component.css']

})

export class SidebarComponent implements OnInit {

constructor() { }

ngOnInit() {

}

}