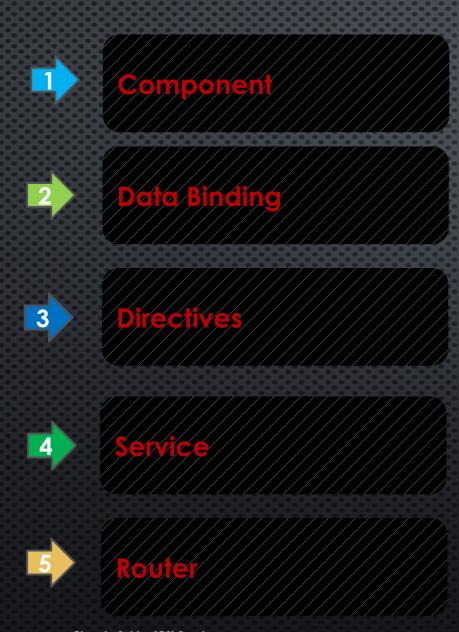
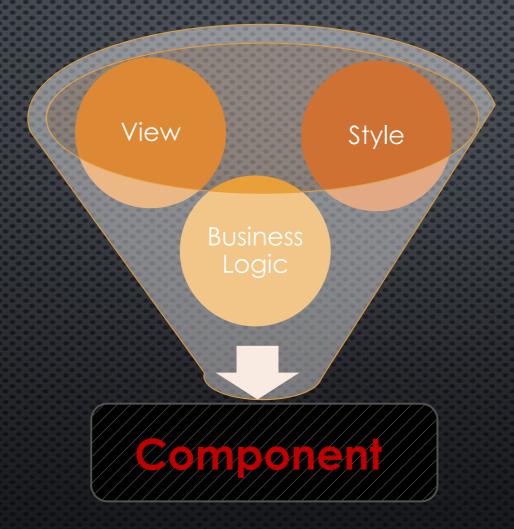
ANGULAR



COMPONENTS

WHAT IS COMPONENT

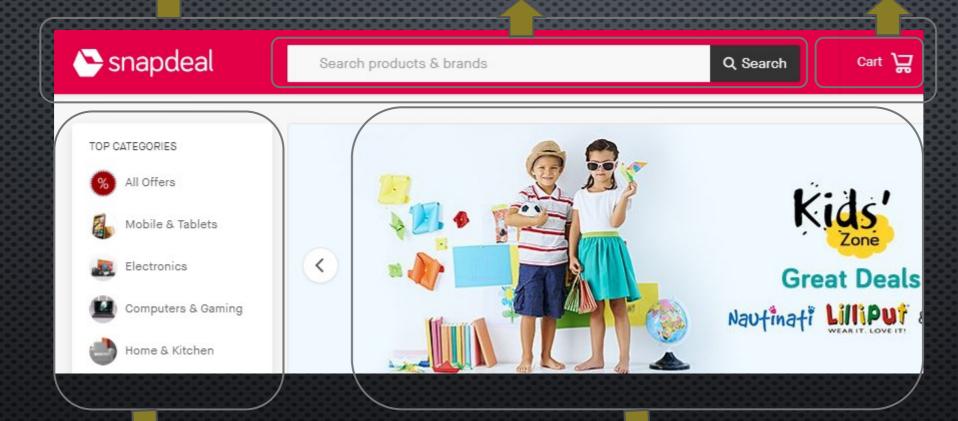


EXAMPLE

Header Component

Search Component

Cart Component



Menu Component

Products Component

COMPONENT HIERARCHY

App Component

Menu Component

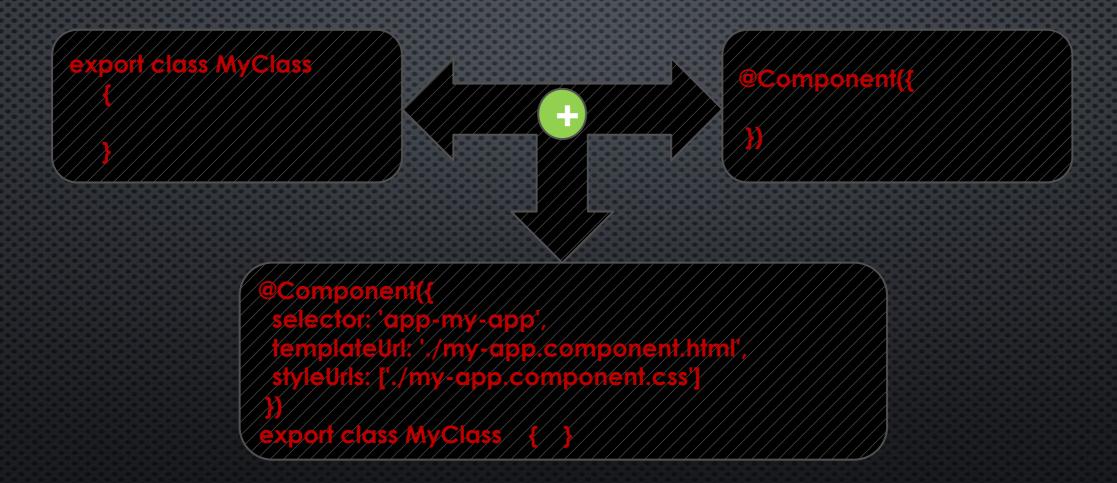
Header Component

Products
Component

Cart Component

Search Component

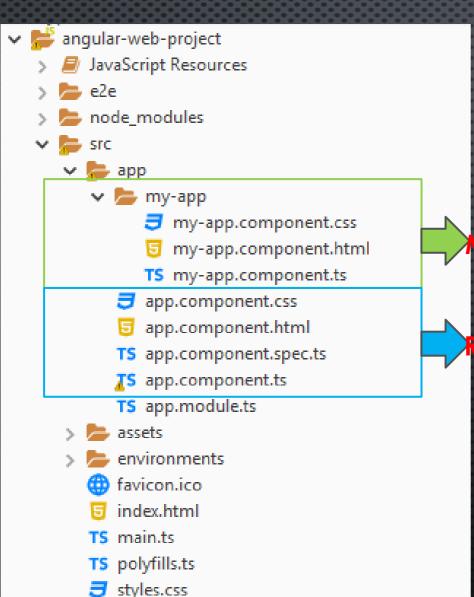
COMPONENT CREATION



HELLO WORLD

```
AMERICALISE ON-6

                                                             selector: 'app-root'
                                                            templateUrl:
                                                                                                <app-my-app></app-my-
 scale=1">
                                                             /app.component.html
                                                                                                app>
                                                                                                   App.component.html
                                                             <app-root></app-root>
 App.component.ts
mpon ( browserwodule ) trom
                                            {{message}}
import [NaModula Company) from
Milyon & Nghwadhle, Component
                                                    /my-/
app.component.html
                                                                                       selector: 'app-my-app'
templateUrl: './my-app.component.html'
                                                                                       styleUrls: ['./my-app.component.css']
                                         border-Wahit 20x
message = 'Hello World';
                                         my-app,component,ts
                                         ployiders.
                                         my-app.component.css
```



My Component

oot Component

Hello World

DATA BINDING

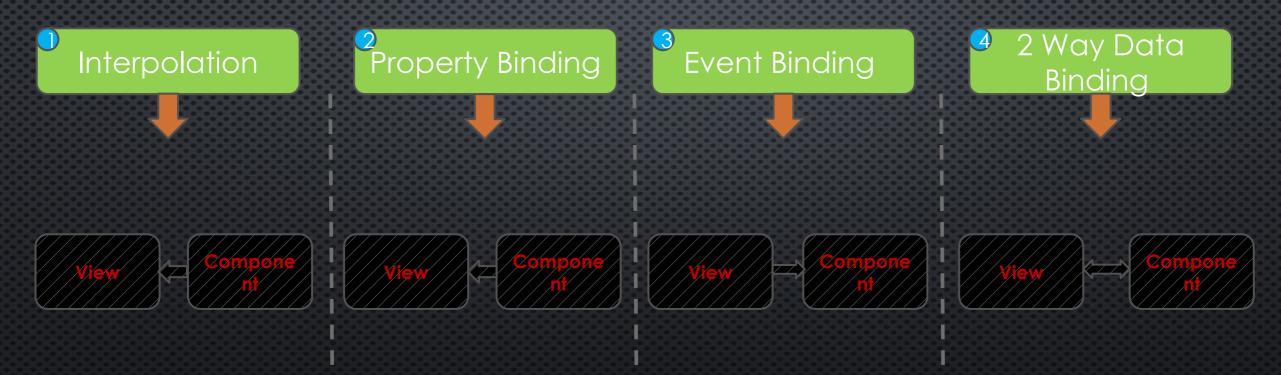
ANGULAR DATA BINDING



One WayBinding

Two Way
Binding

ANGULAR DATA BINDING



1 INTERPOLATION - EXAMPLE

My-app.component.html

```
Your Cart List: 4

My Button

abc@gmail.com

ANGULAR 4

Addition: 30
```

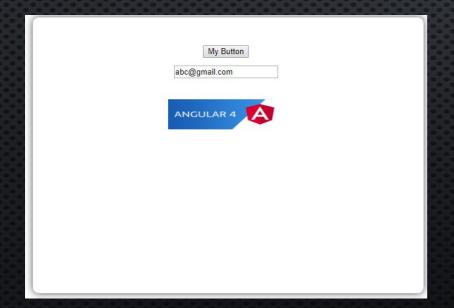
My-app.component.t

```
the late of the la
   count: number;
   btnText: string;
   text: string;
   mylmage; string;
           this.count = 4;
          this.btnText = 'My Button';
           this.text = 'abc@gmail.com';
           this.mylmage = '../assets/løgo.png';
getSum(a, b) {
           return a + b;
```

2 PROPERTY BINDING - EXAMPLE

My-app.component.html

```
My-app.component.ts
```



```
ten pioneur. In y oppositioneris.
btnText: string;
text: string;
mylmage: string;
this.btnText = 'My Button';
 this,text = 'abc@gmail.com';
this.mylmage = '../assets/logo.png';
```

3 EVENT BINDING - EXAMPLE

My-app.component.html

```
selive
<br/>
<br/>
<br/>

<br/>
<input type="submit" (click)="changeText()" value="Change
Text"/>
<br/>
<br/>
<img {src1="myloge" width="200" height="50"/>
<br/>
<input type="submit" (click)="changeLogo()"
<br/>
value="Change Loge"/>
<br/>
<div=</pre>
```





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My-app.component.t

```
abytalkia IV your app component ass'Y
myText: string;
myLogo: string;
this, myText = 'My Current Text';
this.myLogo = '../assets/logo1.png';
changeText() {
this.myText = 'This is my New Text';
changeLogo() {
this.myLogo = '../assets/logo2.png';
```

2 WAY DATA BINDING - EXAMPLE

My-app.component.html

```
<div>
<br>
<br>
<br/>
<input type="text" [(ngModel))="name" placeholder="Enter
Your name"/>
Welcome {{name}}
</div>
```

App.module.ts

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

imports: [
BrowserModule,
FormsModule
]
```

My-app.component.t

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

@Component({
    selector: 'app-my-app',
    templateUrk: './my-app.component.html',
    styleUrls: {'./my-app.component.css'}

export class MyAppComponent {
    name: string;
    constructor() {}
}
```

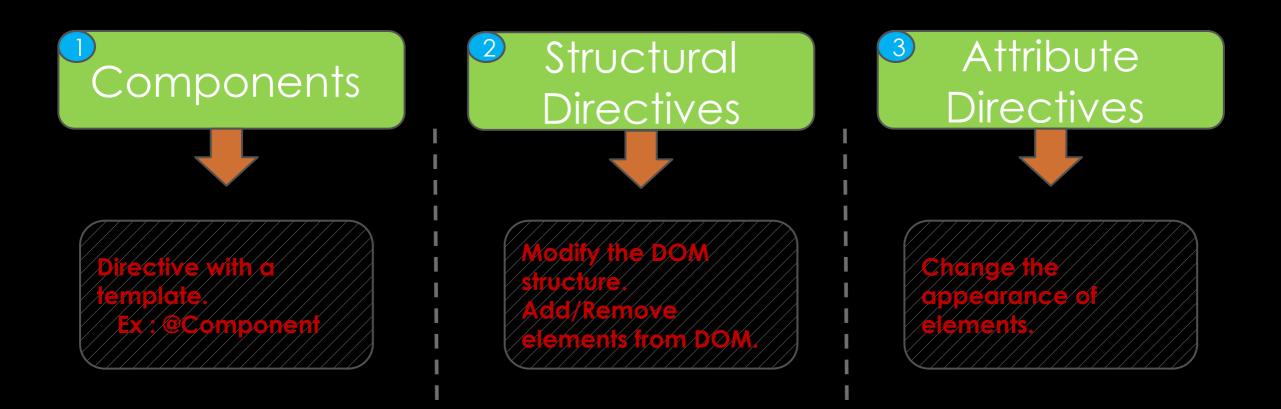




Chanarasekhar(Cs) bararam

DIRECTIVES

ANGULAR DIRECTIVES



STRUCTURAL DIRECTIVES

Structural Directives

Modify the DOM structure. Add/Remove elements from DOM.

nglf

ngFor

ngSwitch

STRUCTURAL DIRECTIVES - EXAMPLE

Click Me Invalid

Click Me

- · Two Wheeler
- · Three Wheeler
- Four Wheeler

Invalid

Click Me

- Two Wheeler
- · Three Wheeler
- · Four Wheeler

Car

My-app.component.t

2 ATTRIBUTE DIRECTIVES

Attribute Directives

Change the appearance of elements.

ngStyle

ngClass

ngModel

ATTRIBUTE DIRECTIVES - EXAMPLE

My-app.component.html

My-app.component.css

```
Example for ngStyle.

Change Style

Example for ngClass.

Change Class

Example for ngModel.

Enter the color Name
```

```
imyClass1{
color: red;
}
.myClass2{
color: green;
}
```

```
trilo Vilo (1 / January and a service and a 
   yfunction2() {

I (this.currentCSSClass === myClass1)

Wir currentCSSClass = myClass2;
```

CUSTOM DIRECTIVES

Create a Type Script tile using @Directives.

2 Register in app.module.ts.file.

(3) Use the created directives in HTML elements

CUSTOM DIRECTIVES - EXAMPLE

```
My-app.component.html
```

App.module.ts

```
Import { MyCustomDirective } from './custom-directives/my-bgcolor.directive';
@NgModule({
declarations: {
    AppComponent,
    MyAppComponent,
    MyCustomDirective
```

Example for Custom Directive.

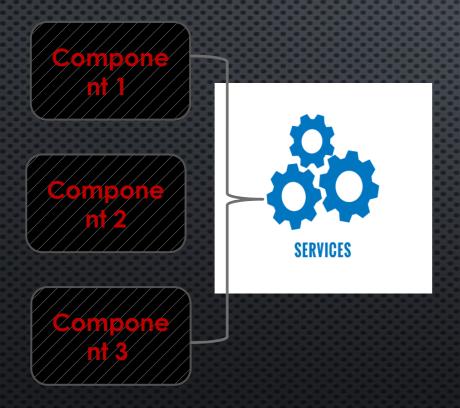
- Item 1
- Item 2
- Item 3

selector: '[myTextColor] export class MyCustomDirective
@Input() bgColor: string; constructor(private e: ElementRef) { e.nativeElement.style.color = greet

SERVICE

WHAT IS SERVICE

Reusable code that can be accessed from multiple components





SERVICE - EXAMPLE 1

```
getFoodItems() {
 return this foods;
```

```
import {FoodService} from '.../my-services/food.service';
import {Component} from '@angular/core';
export class MyAppComponent
 constructor(private service: FoodService) {
   this,toodItems = service.getFoodItems();
```

```
"/my-services/tood.servi
providers: [FoodService],
```

- Fride Rice
- Noodles
- Snacks

SERVICE - EXAMPLE 2

My-app.component.html

```
sdiv class="items" *nglf="flag">
{{selectedFood}} List
```

My-app.component.ts

```
export class MyAppComponent
```

My-app.component.css

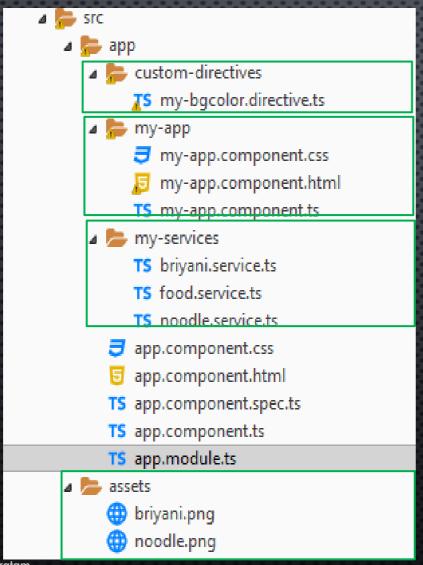
costom-directive/Mybacolor directives ts

```
export class MyCustomDirective
bgColor: string;
constructor(private e: ElementRef)
```

food.services.ts

Briyani.services.ts

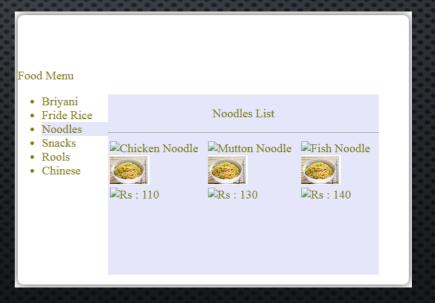
noodle services to



Food Menu

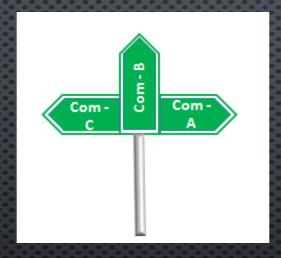
- Briyani
- Fride Rice
- Noodles
- Snacks
- Rools
- Chinese





ROUTER

WHAT IS ROUTER



Routes between Components

ROUTING - EXAMPLE

Home.component.html

Contact.component.html

about.companent.htm

/p>
/am Home Component,

/p>
/am Contact Component.
//p>

I am About Component

app.component.html

app.inddoie.i.

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

const ROUTES: Routes = [
{ path : 'Home', component :
 HomeComponent},
 { path : 'Contact', component :
 ContactComponent},
 { path : 'About', component :
 AboutComponent}
];
 @NaMadule(f

RouterModule.forRoot(ROUTES)



This is the space for New Component.

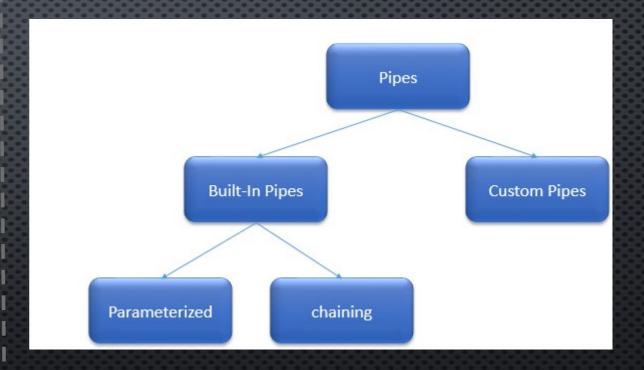
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PIPES

ChandraSekhar(CS) Baratam

WHAT IS PIPE







app.component.html

```
{{ name | uppercase }}{{ name | lowercase }}/td>{{ name | titlecase }}
              {{ date }}<
{{ date | date; 'dd/MMM/yyyy' }}</
</td>{{ date | date; 'dd-MM-yy' }}{{ date | date; 'fullDate' }}
              {{ date | date: 'fullDate'
               {{ date / date: 'shortTime' }}<
     {{00,54565 | percent}}{{6589,23 | currency:"USD"}}
```

app.component.ts

```
import {Component} from '@angular/core
@Component({
    selector; 'app-root',
    templateUrl; ',/app.component.html',
    styleUrls; ['./app.component.css']
})
export class AppComponent {
    name: string = 'valan arasu';
    date: Date = new Date();}
```

Upper Case Pipe VALAN ARASU
Lower Case Pipe valan arasu
Title Case Pipe Valan Arasu

Date Pipe Sun Jul 15 2018 11:11:59 GMT+0530 (India Standard Time)

Date Pipe 15/Jul/2018 Date Pipe 15-07-18

Date Pipe Sunday, July 15, 2018
Date Pipe SUNDAY, JULY 15, 2018

Date Pipe 11:11 AM

Percent Pipe 55% Currency Pipe \$6,589.23

2 CUSTOM PIPES

Sort.pipe.ts

app.component.t

import { SortPipe } from

declarations: [AppComponen SortPipe

./sørt.pipe';

```
import {Pipe, PipeTransform} trom
'@angular/core';
@Pipe({/
 name: 'sort'
 transform(value: any[], args: string);
any[]/
```

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

@Component({
    selector: 'app-root',
    templateUtl: './app.component.html',
    styleUrls: ['./app.component.css']
})

export class AppComponent {
    arr1: number[] = [3,7,1,9,2];
    arr2: string[] = ['valan', 'arasu', 'hi', 'hello',
    'wipro'];
}
```

```
3,7,1,9,2
2,9,1,7,3
1,2,3,7,9
9,7,3,2,1
valan,arasu,hi,hello,wipro
```

wipro,hello,hi,arasu,valan arasu,hello,hi,valan,wipro wipro,valan,hi,hello,arasu

FORMS & VALIDATION

TEMPLATE DRIVEN FORMS

<form #myForm="ngForm" (ngSubmit)="myFunction(myForm.value)">
<header>Registration Page</header>
<label>Nomes(label><inout type="text" name="name" naModel/> ibel>Fmail</label>:ibel>Fmail label>Email</label><input type="text" name="email" ngModel/>
label>Age</label><input type="text" name="age" ngModel/>
label>Mobile Number</label><input type="text" name="mobileNo"

ngModel/> label>Country</label> <select name="country" ngModel>
option value="India">India</option> <option
lue="China">China</option>
select>

port class Template Driven Form Component myFunction(data) { alert(data.name + "\n" + data.email + "\n" + data.age + "\n" + data.mobileNo + "\n" + data.country);

Forms Module

Registration Page localhost:4200 says Name valanmca@gmail.com valan Email valanmca@gmail.com Age 32 Mobile Number 123456 Country India Register

TDF VALIDATION TABLE

State	Class if true	Class if false
Control has been visited	ng-touched	ng-untouched
Control's value has changed	ng-dirty	ng-pristine
Control's value is valid	ng-valid	ng-invalid

<a href="label"

Name ng-untouched ng-pristine ng-invalid

Name valan
ng-dirty ng-valid ng-touched

TDF VALIDATION

Template-drivenform.component.html

```
erm #myForm="hgForm" (ng$ubmit)="myFunction(myForm.value)";
egder>Registration Pages/baggles
<div *nglf="name.touched">
<div *nglf="name.errors?.required">
<font color="red"><b>Name Required.</b></font</pre>
<div *nglf="name.errors?.pattern">
<font color="red"><b>Invalid Name.</b></font>
       *nglf="email:touched">
  div *ngir= email.etrors:/.required /
font color="red"><b>Email Required.</b></font
        *nglf="email.etrors?.pattern">
color="red"><b>lnvalid Email.</b></font
```

TDF VALIDATION....

Template-driven-

```
div right age. rouched
div *ngit="age.errors?.required/>
font.color="red"><b>Age Required.</b></fon
<div *nglf="age.errors?.pattern">
<font color="red"><b>Invalid Age.</b></font:</pre>
sdiv *nglf="mobileNø,errørs?,required">
stont cølør="red"><b>Mobile Number Required,</b></font
sdiv *nglf="mobileNø.errors?.pattern">
<font cølør="red"><b>lnvølid Mobile Number.</b></font:</pre>
label>Country</label> <select name="country" required ngModel>
coption value="India">India</option> <option value="China">China</option>
```

TDF VALIDATION....

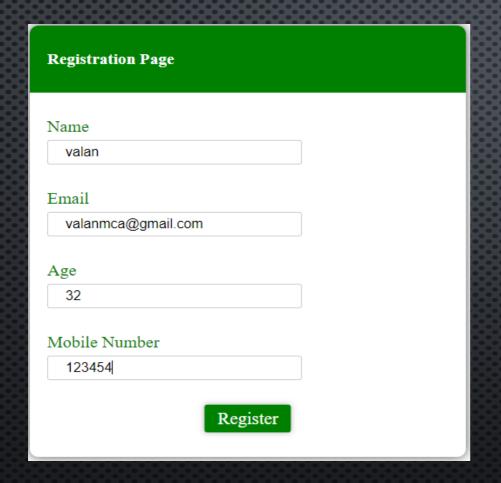
2 REACTIVE / MODEL DRIVEN FORMS

```
form [formGroup]="myForm"
(ng$ubmit)="myFunction(myForm.value)">
 Sheader>Registration Page</header>
*ngFør="let user of userlist">{{user.name}} {{user.ema
ıser.age}} {{user.mobileNo}}
ReactiveFormsModule,
FormsModule
```

recative-form.component.t

```
import {Component, Onlait} from '@angular/cor
import {FormGroup, FormControl} from
'@angular/forms';
export class ReactiveFormComponent
myForm: FormGroup;
 userList: User[] = [];
  this,myForm = new FormGroup({
   name: new FormControl(")
    email: new formControl(")
    age: new FormControl(")
    mobileNo: new FormControl(")
 myFunction(data)
  this.userList.push(data);
export interface User {
 name; string;
 email: string;
 age: number;
 mobile No: number;
```

REACTIVE / MODEL DRIVEN FORMS...



Registration Page	
XT.	
Name	7
valan2	
Email	
valanmca@gmail.com	
	J
Age	
32	
Mobile Number	_
123454	
Register	

valan1 valanmca@gmail.com 32 123454
valan2 valanmca@gmail.com 32 123454

REACTIVE FORM VALIDATION

reactive-form.component.html

```
<!abel>Name</label><input type="text" formControlName="name"/>
<div *nglf="myForm.get('name').touched && myForm.get('name').invalid">
<div *nglf="myForm.get('name').hasError('required')">
<font color=red><br/>
<br/>
<font color=red><br/>
<br/>

<div *nglf="myForm.get('name').hasError('pattern')
<font color=red><b>Invalid Name.</b></font>

Alabel>Email
//alabel><input type="text" formControlName="email"/>
<div *nglf="myForm.get('email').touched && myForm.get('email').invalid">
<div *nglf="myForm.get('email').hasErrot('required')">
<font color=red><br/>
<br/>
<font color=red><br/>
<br/>

 <div *nglf="myForm.get('email').hasError('pattern')
<font color=red><b>Invalid Email<</b></font>
```

REACTIVE FORM VALIDATION...

reactive-form.component.html

```
div *nglf="myForm,get('age'),hasError('pattern')
font color=red><b>lnvalid Age,</b></font>
Slabel>Mobile Number</label><input type="fext" formControlName="mobileNo"/
<div *nglf="myForm.get('mobileNo').touched && myForm.get('mobileNo').invalid";
<div *nglf="myForm.get('mobileNo').hasError('required')">
<font color=red><b>Mobile No is Required,</b></font>
 button [disabled]="myForm.invalid">Register</button
       gFor="let user of userList">{{user.name}} {{user.email}} {{user.age}} {{user.age}} {{user.mobileNo}}
```

REACTIVE FORM VALIDATION...

reactive-form.component.ts

```
this my Form = new Form Group ({
   name: new FormControl(", [Validators.required, Validators.pattern('[a-zA-z][a-zA-Z]+')]),
   email: new FormControl(", [Validators.required, Validators.pattern('^{\prime}\w+([\lambda.-]?\w+)*@\w+([\lambda.-]?\w+)*(\lambda\lambda)
w{2,3})+$')}),
   age: new FormControl(", [Validators.required, Validators.pattern("[0-9]+"), Validators.maxLength(2)]),
   mobileNo; new FormControl(", [Validators,required, Validators,pattern('^[1-9]{1}[0-9]{9}$')]),
```

REACTIVE FORM VALIDATION...

Registration Page	
Name	
valan	
Email	
Email is Required.	
Age	
99	
Invalid Age.	
Mobile Number	
123	
Invalid Mobile No.	
Register	

HTTP SERVICE

ChandraSekhar(CS) Baratam

SETTING UP & FAKE REST API

IN THE OPENED TERMINAL, TYPE THE FOLLOWING COMMAND.

NPM INSTALL -G JSON-SERVER

NOW, ADD THE FOLLOWING COMMAND TO THE SCRIPTS SECTION IN THE PACKAGE JSON F SERVER:

"JSON-SERVER": "JSON-SERVER --WATCH DB.JSON --PORT 3004"

IN THE TERMINAL+ VIEW (ENSURE YOU HAVE THE CORRECT PROJECT SELECTED) RUN THE NPM RUN JSON-SERVER

IT WILL CREATE A FILE CALLED "DB.JSON"

ChandraSekhar(CS) Baratam

Package.json



Congrats!

You're successfully running JSON Server $*.9('O'^*)_9$ *.

Resources

/posts ^{2x}

/comments ^{1x}

/profile object

To access and modify resources, you can use any HTTP method



App.module.ts Data.servic

```
import { HttpModule } from '@angular/http';
  Http$erviceComponent
  HttpModule
  providers: [DataService],
zootstrap: [AppCompone
```

```
import {Injectable} trom '@angular/core
import {Http} from '@angular/http';
 private url: string =
'http://localhost:3004/posts';
 constructor(private http: Http) {}
 getAllEmployeeDetails() {
   return this.http.get(this.url);
```

```
constructor(private service: DataService) {}
 getAllEmployeeDetails() {
  this, service, getAllEmployeeDetails(), subscribe(res
=> this.employees = res.json());
```

Fetch Employee Details

```
Fetch Employee Details

101 - valan - 2000

102 - arasu - 4000
```

http-service.component.html

```
<div class="MyDiv">
<button (click)="getAllEmployeeDetails()">Fetch
Employee Details</button>

{li>{{emp.id}} - {{emp.name}} - {{emp.salary}}
```

```
"posts": {
    "id": 101,
    "name": "valan"
    "salary": 2000
}

"name": "arasu".
    "salary": 4000
}
```

POST

App.module.ts

```
import {    HttpModule } from '@angular/http';
import {AppComponent} from ',/app.component
import { DataService } from './data.service';
import { HttpServiceComponent } from ',/http-
service/http-service.component';
    Http$erviceComponent
    HttpModule
     roviders: [DataService]
potstrap: [AppCompone
```

Data.service.ts

```
import { Injectable } from '@angular/core'
import { Http, Response } from '@angular/t
import 'rxjs/add/operator/map';
@Injectable()
export class DataService {
  url; string = 'http://localhost:3004/posts';
 constructor(private http: Http) {}
 getAllEmployeesDetails() {
   return this http.get(this.url);
 saveEmployeeDetails() {
   return/this,http.post(this,url, {id/: 103, name: 'Raj',
salary : 5000}),map((res: Response) => res.json());
```

http-service.component.ts



```
Level Lab Mate V. United Agents of Company of the C
          employees: string;
    constructor(private service: DataService) { }
    getAllEmployeeDetails(){
           this.service.getAllEmployeesDetails().subscribe(res =>
this.employees = res.json())
    saveEmployeeDetails() {
           this.service.saveEmployeeDetails().subscribe();
```

http-service.component.html

```
<br/>
```

• 101 - valan - 2000
• 102 - arasu - 4000

Save Employee

Fetch Employee Details

101 - valan - 2000

102 - arasu - 4000

103 - Raj - 5000

Save Employee

db.json

```
posts"; [
"id": 101,
"name": "valan";
"salary": 2000
},
"name": "araşu";
"salary": 4000
},
"name": "Roj";
"scilary": 5000
```

3 DELETE

App.module.ts

```
import { HttpModule } from '@angular/http';
import {AppComponent} from ',/app.comp
import { DataService } from './data.service';
import { HttpServiceComponent } from ',/htt
service/http-service.component';
    Http$erviceComponent
    HttpModule
       oviders: [DataService],
otstrap: [AppCompon
```

Data.service.ts

```
import rxjs/add/operator/map;
@Injectable()
export class DataService
 url: string = 'http://localhost:3004/posts';
 constructor(private http://Http) { }
 getAllEmployeesDetails() {
  return this.http.get(this.url);
 saveEmployeeDetails() {
  return this.http.post(this.url, {id : 103, name : 'Raj',
salary : 5000}).map((res: Response) => res.json());
deleteEmployeeDetails() {
  return this.http.delete(this.url + 1/103);
```

http-service.component.ts

DELETE...

```
19017 Baraser nice / 11011 - 19101 - Service ,
 torantetoWrk / Intin convocacement
 emplaredit. Trub-service. Component. In
employees: string;
constructor(private/service: DataService) {}
getAllEmployeeDetails() {
 this.service.getAllEmployeesDetails(),subscribe(res =>
this.employees = res.json())
saveEmployeeDetails() {
  this.service.saveEmployeeDetails().subscribe();
deleteEmployeeDetails() {
  this.service.deleteEmployeeDetails(),subscribe();
```

```
'div> http-service.component.html
```

```
<br/>
<br/>
<br/>
<br/>
button (click)="getAllEmployeeDetails()">Fetch Employee

Details</br/>
/button>

*IngFør="let emp of employees">
*Ii>{{emp.id}} - {{emp.name}} - {{emp.salary}}
*Ii>
<br/>
/ul>
<br/>
<br/>
<br/>
button (click)="saveEmployeeDetails()">$ave

Employee</br/>
/button (click)="deleteEmployeeDetails()">Delete

Employee</br/>
/button (click)="deleteEmployeeDetails()">Delete
```

Fetch Employee Details

101 - valan - 2000

102 - arasu - 4000

103 - Raj - 5000

Save Employee Delete Employee

Fetch Employee Details

101 - valan - 2000

102 - arasu - 4000

Save Employee Delete Employee

db.jsor

```
"ja": 101,
"hame": "valari",
"salary": 2000
},
"hame": "arasu",
"salary": 4000
},
```

4 PUT

App.module.ts

```
import {    HttpModule } from '@angular/http';
import {AppComponent} from ',/app.com
import { DataService } from './data.service
import { HttpServiceComponent } from ',/h
service/http-service.component';
    Http$erviceComponent
    HttpModule
       oviders: [DataService],
otstrap: [AppCompon
```

Data.service.ts

```
import / HMp, Response / from @
import 'rxjs/add/operator/map';
 url: string = 'http://localhost:3004/posts';
 constructor(private http: Http) {}
 getAllEmployeesDetails() {
  return this.http.get(this.url);
 saveEmployeeDetails() {
  return this.http.post(this.url, {id : 103, name : 'Raj',
salary: 5000}).map((res: Response) => res.json());
deleteEmployeeDetails() {
  return this http.delete(this.url + 1/103);
updateEmployeeDetails() {
  return this http.put(this url + '/103', {name : 'Kumar'
salary: '7000'});
```

http-service.component.ts

```
PUT...
```

```
who had allow tilling having a company of
 employees: string;
 constructor(private service: DataService) {}
 getAllEmployeeDetails() {
  this.service.getAllEmployeesDetails().subscribe(res =>
this.employees = res.json())
 save£mployeeDetails(){
  this.service.saveEmployeeDetails().subscribe();
deleteEmployeeDetails() {
  this.service.deleteEmployeeDetails().subscribe();
updateEmployeeDetails() {
  this.service.updateEmployeeDetails().subscribe();
```

```
Fetch Employee Details

101 - valan - 2000

102 - arasu - 4000

103 - Raj - 5000

Save Employee Delete Employee Update Employee
```

Fetch Employee Details

101 - valan - 2000

102 - arasu - 4000

• 103 - Kumar - 7000

Save Employee Delete Employee Update Employee

db.json

```
"ja": 101,
"name": "valan";
"solary": 2000
},
"name": "arasu";
"salary": 4000
},
"salary": "7000",
"id": 103
```

COMPONENT COMMUNICATIONS

COMMUNICATION BETWEEN COMPONENTS

Sender.component.html

```
$\text{sender Component}
$\text{shr/> < br> < \text{form Group]="myForm"}
$\text{ngSubmit}="myFunction(myForm.value)">
$\text{input type="text" placeholder="Enter the data"}
$\text{tormControlName="text"/><br> <\table \text{button>} \text{\text{form}>}
$\text{shr} \text{ormControlName="text"/><br> <\table \text{button>} \text{\text{form}>}
$\text{shr} \text{\text{shr}} \text{\text{form}>}
$\text{shr} \text{\text{shr}} \text
```

My.service.ts

```
import { Injectable } trom '@angular/core';
import { BehaviorSubject } trom 'rxjs';
@Injectable()
export class MyService {
  private messageSource = new BehaviorSubject('Default Message');
  currentMessage = this.messageSource.asObservable();
  constructor() { }
  dataToService(text) {
    this.messageSource.next(text);
  }
```

Sender.component.ts

```
myFunction(data) {
 this.service.dataToService(data.text);
```

COMMUNICATION BETWEEN COMPONENTS...

Receiver.component.html

<sender></sender>
</re>

```
Import {MyService} from '../my.service';
import {Component} from '@angular/core';
@Component({
    selector; 'receiver',
    templateUrl; '/receiver.component.html',
    styleUtls; ['./receiver.component.css']
))
export class ReceiverComponent {
    message: string;
    constructor(private service: MyService) {
    this.service.currentMessage.subscribe(msg => this.message = msg);
    }
}
```







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CRUD USING HTTP

- 1. CREATE OPERATION USING HTTP. POST METHOD.
- 2. **READ** OPERATION USING HTTP.GET METHOD.
- 3. UPDATE OPERATION USING HTTP.PUT METHOD.
- 4. **DELETE** OPERATION USING HTTP. **DELETE** METHOD.

center.component.ts

CRUD EXAMPLE

```
saveEmployee(data) {
    this employee id = data.
updateEmployee(data) (
deleteEmployee(data) {
```

CRUD EXAMPLE...

right.component.html

right.component.ts

```
constructor(private service; EmsService)
this.getAllEmployeeDetails();
 getAllEmployeeDetails() {
  this.service.getAllEmployeeDetails().subscribe(res =>
this all Employees List = res);
```

CRUD EXAMPLE...

top.component.html

app.component.ts

Employee Management System

crud-main></crud-main>

app.module.t

Crud-main component htm

```
<div class="top">
<fop></fop>
</div>
<div class="center">
<center></div>
<div class="right">
<div class="right">
<fipht></right></right>
</div>
</div>
```

NgModule({ declarations: [AppComponent, CrudMainComponent, TopComponent, RightComponent, CenterComponent ReactiveFormsModule, Forms Module, HttpModule, providers: [EmsService], bootstrap: [AppCompanent]

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CRUD EXAMPLE...

mport {HttpErrorResponse} from '@angular/common/http'; import {Injectable} from '@angular/core'; import {Http/Response}} nport {Observable, BehaviorSubject} from 'rxjs'; import 'rxjs/add/operator/map'; import 'rxjs/add/operator/catch'; XPOIT Closy Ellister vice / onvoie messagesource—new betroviorsubjecti center.component.css 75 center.component.ts constructor private http://http:/ crud-main crud-main.component.css 5 crud-main.component.html his.http.get(this.url).subscribe(res => this.messageSource.next(res.json et allfmoloxee) ist = this messageSource.asObservable(); TS crud-main.component.ts http-service er uncripicyeerist – inis.messagesot receiver right right.component.css sdvetmployee(employee) { this.http.post(this.url, employee).map((res: Response) => res.json()).subscribe(res => this.resu 75 right.component.ts MIS. GETAILE HIPLOYEE DE LOUIS () sender top.component.css this.http.put(this.url+/// + employee.id, employee).subscribe 5 top.component.html ↓S top.component.ts app.component.css mis.getAiremployeeDelons(), g app.component.html TS app.component.spec.ts TS app.component.ts this.http.delete(this.url + // + id).subscribe TS app.module.ts TS data.service.ts nus gerandirpidyeederdis(), TS ems.service.ts

Employee Management System Employee List 101 - valan - 2000 102 - arasu - 3000 103 - valan - 222 Salary Save Update Delete

Employee Management System Employee List Id104 101 - valan - 2000 102 - arasu - 3000 Name Kumar 103 - valan - 222 104 - Kumar - 5000 Salary 5000 Update Save Delete Record 104 Updated

Employee Management System Employee List \mathbf{Id} 104 101 - valan - 2000 102 - arasu - 3000 Name Raj 103 - valan - 222 104 - Raj - 7000 Salary 7000 Delete Save Update Record 104 Saved

Employee Management System

Id	Employee List
104	101 - valan - 2000
Name	102 - arasu - 3000
Kumar	103 - valan - 222
Salary	
5000	
Save Update Delete	
Record 104 Deleted	