- Templates

```
templateUrl: './app.component.html'
template have ur own !!
```

using ES6 template syntax

can not have in multiple lines

use back-ticks for multilines

- Styles

styles have ur own!!

- Data Binding
 - use component data in the template
 - Component Interaction with templates

```
expressions {{variable}}
```

- directives //*ngFor, *ngIf ...
 - commands used in templates
- constructor
 - initialise values for variables
- ts to declare variable types
- events
- properties
- bi-directional

- Events

```
( <name_of_event> ) //in template
```

- a component method can be bound to event
- use \$event var. to pass the event as a parameter to the method
- template data can also be passed

```
[ <prop_name> ] //in template
```

- directive
- on any HTML tag property
- can be bound to component code
- sometimes more safer than using expressions
 - no loading issues
 - processed after the component is initialized

- Bi-directional binding
 - mostly useful with forms

- External data and life cycle method

```
onInit
```

modular

subscriptions

- External data and life cycle method

```
onInit

//in app.component

export class AppComponent implements OnInit {

...

constructor(private http: HttpClient) {
```

subscriptions

```
ngOnInit(): void {
    this.http.get<Object>('../assets/emp.json').subscribe(
    empInfo => {
        this.employee = empInfo;
    })
}
```

- Creating more components

- CLI

ng generate component < component_name >

- - flat to have the the created component in the 'app' level

```
import { Component, OnInit } from '@angular/core';
@Component({
  selector: 'app-emp-pics',
  templateUrl: './emp-pics.component.html'
})
export class EmpPicsComponent implements OnInit {
  constructor() { }
 ngOnInit() {
```

- Creating more components

- CLI

updates the app.module.ts

```
import { EmpPicsComponent } from './emp-pics/emp-pics.component';
```

```
@NgModule({
    declarations: [
        AppComponent,
        EmpPicsComponent
    ],
```

- Creating more components
 - sub-components inputs to get data from the main component

```
import { Component, OnInit } from '@angular/core';
@Component({
  selector: 'app-emp-pics',
  templateUrl: './emp-pics.component.html',
  inputs: ['emp']
})
export class EmpPicsComponent implements OnInit {
  constructor() { }
  ngOnInit() {
```

- Creating more components
 - sub-components inputs to get data from the main component

```
<div class="media">
   <!-- <img class="mr-3 rounded img-fliud align-self
   <!-- alt="{{e.name}}"> -->
   <!-- <img class="mr-3 rounded img-fliud align-self
   <!-- alt="{{e.name}}"> -->
    <div class="media-body align-self-center">
      <h5 class="m-0">{{ emp.name }}</h5>
      {{emp.desig}} <br>
      {{emp.dept}}
    </div>
```

- Creating more components
 - props for communication between components

- Pipes
 - filer & search
 - text-modifications
 - date formatting
 - CLI
 - transform(data_2b_transformed, modifier)

- Pipes

```
ng generate pipe find-employee
```

app.module gets updated

- Pipes

```
TS find-employee.pipe.ts ★
       import { Pipe, PipeTransform } from '@angular/core';
  2
  3
       @Pipe({
         name: 'findEmployee'
  5
       })
  6
       export class FindEmployeePipe implements PipeTransform {
  7
  8
         transform(value: any, args?: any): any {
            return null;
 10
 11
 12
```

- Pipes

```
TS find-employee.pipe.ts ×
       import { Pipe, PipeTransform } from '@angular/core';
  1
  2
  3
       @Pipe({
         name: 'findEmployee'
  4
  5
       })
       export class FindEmployeePipe implements PipeTransform {
  6
  8
         transform(data_2b_transformed, modifier): any {
  9
           return data_2b_transformed.filter(eachEmp => {
             return (
 10
               eachEmp['name'].toLowerCase().includes(modifier.toLowerCase()) ||
 11
               eachEmp['desig'].toLowerCase().includes(modifier.toLowerCase()) ||
 12
               eachEmp['dept'].toLowerCase().includes(modifier.toLowerCase())
 13
 14
           });
 15
 16
 17
 18
```

- Pipes

```
*ngFor="let e of (employee | findEmployee: greet)"
```

- another sub-component

ng generate component about-emp

```
about-emp.component.html ×
       <div class="container mt-3">
  1
         <div class="row justify-content-center">
  2
           <div class="col-sm-4 col-lg-3">
  3
             <img class="img-fluid rounded" [src]="'./assets/images/' + emp.imglocn + '.png'"</pre>
  4
             alt="{{emp.name}} image">
  5
  6
           </div>
           <div class="col-sm-8 col-lg-4">
             <h2 class="mt-3 mt-sm-0 mb-0">{{emp.name}}</h2>
  8
             <h4 class="mt-0">{{emp.desig}}</h4>
             {{emp.dept}}
 10
           </div>
 11
 12
         </div>
       </div
 13
```

- another sub-component

```
TS about-emp.component.ts ×
       import { Component, OnInit } from '@angular/core';
  1
  2
  3
       @Component({
  4
         selector: 'app-about-emp',
  5
         templateUrl: './about-emp.component.html',
  6
         inputs: ['emp']
       })
       export class AboutEmpComponent implements OnInit {
  8
  9
 10
         constructor() { }
 11
 12
         ngOnInit() {
 13
 14
 15
```

```
<div class="row justify-content-center">
 3
        <div class="card bg-success card mt-sm-3 col-md-6">
 4
          <div class="card-body">
 5
            <h3 class="mb-0 text-center text-warning">SSN Employee Repo.</h3>
 6
            <div class="form-group">
 7
              <div class="form-label text-center text-light mt-sm-3"</pre>
 8
              *ngIf="greet"><strong>{{ greet + ' !!'}}</strong></div>
 9
              <input class="form-control mt-3" type="text"</pre>
10
              [(ngModel)]="greet">
11
12
            </div>
13
          </div>
       </div>
14
     </div>
15
16
17
     <div class="position-absolute container" style="left: 0; z-index:10">
        <div class="row justify-content-center">
18
          <div class="col-sm-10 col-md-8 col-lg-6 col-xl-5">
19
            <div class="list-group" *ngIf = "greet">
20
              <a href="#" class="list-group-item list-group-item-action flex-column align-items-start"</pre>
21
              *ngFor="let e of (employee | findEmployee: greet )"
22
              (click)="displayEmployee($event, e)"
23
              [style.backgroundColor]="e.bg ? '#CDE': '#FFF'">
24
              <app-emp-pics [emp]="e"></app-emp-pics>
25
26
27
              </a>
28
            </div>
          </div>
29
       </div>
30
     </div>
31
     <app-about-emp *ngIf = "this e" [emp]="this e"></app-about-emp>
32
33
     </div>
34
```

- another sub-component

```
TS app.component.ts ★
       import { Component, OnInit } from '@angular/core';
  1
       import { HttpClient } from '@angular/common/http';
  2
  3
       @Component({
  4
         selector: 'app-root',
  5
         templateUrl: './app.component.html',
  6
  7
       })
  8
       export class AppComponent implements OnInit {
  9
         greet: string;
 10
 11
         employee: object;
 12
         this_e: object;
 13
 14
         displayEmployee(evt,emp) {
           // console.log(evt);
 15
           this.greet = 'Welcome ' + emp.name;
 16
 17
           emp.bg = !emp.bg;
           this.this_e = emp;
 18
 19
 20
         constructor(private http: HttpClient) {
 21
 22
           // this.greet = 'Welcome';
           this.greet = '';
 23
 24
         }
 25
         ngOnInit(): void {
 26
 27
           this.http.get<Object>('../assets/emp.json').subscribe(
           empInfo => {
 28
             this employee = empInfo;
 29
 30
           })
 31
 32
```

https://angular.io