Quick Revisit

SPA – Single Page Application

TypeScript --- Classes & Interfaces, Access Modifiers (private, public & protected)

DataTypes ---- (string, number, void, undefined, null, any, enum, array, tuple, never)

Decorators -- similar to annotation it starts with @ symbol (Can be applied to class, interface, method, variables, parameters/arguments etc.,)

Angular CLI , Installing angular cli (npm I -g @angular/cli) ng new <app-name> , cd app-name, ng serve -o, ng build, ng test, ng e2e

Webpack – Module Bundler Tool (Convert multiple files to a single file in a proper order)

Life Cycle Methods (8 methods/ life cycle hooks )

@Component decorator & Directives (Types)

Pipes, Custom pipes

Binding & Types of Binding

@NgModule decorator

Injecting Service,

Pipes (|) are used only for display purpose. It will not change the value.

Pipes are used to display the data in proper format.

Types of Pipes

1. Built-in or Pre-defined pipes (date, uppercase, lower case ….) number, currency,date, json, async
2. Custom pipes / user defined pipes - A class with @Pipe annotation and is a class which implements PipeTransfrom \*Interface.

Wordcount

Creating custom pipe

Create a class by implementing the PipeTransform interface and also adding @Pipe decorator

wordcount.pipe.ts

import { Pipe, PipeTransform } from '@angular/core';

@Pipe({name: 'wordcount'})

export class WordcountPipe implements PipeTransform {

transform(value: any, args?: any): number {

return value.trim().split(' ').length;

}

}

Import this pipe in root module and add to declarations array. Then use it in the template (html) file

Binding

1. One Way Binding ( property & Event binding)
2. Two Way binding (banana in a box syntax --- [()])

Binding – communication between component and dom ts file to html file (controller -- view)

|  |  |  |  |
| --- | --- | --- | --- |
| Interpolation | Property | event | Two Way |
| {{}} | [], {{}} (Data will be assigned to attributes of html tag) Ex: <img [src]="image">  <img src={{image}}> | ()[function/method will be assigned to events] Ex: <input type="submit" (click) ="onSubmit()"/> | [()] |
| Controller 🡪 view (model🡪view) | Controller 🡪 view (model🡪view) | controller 🡨 view, (view/template 🡪 Model/controller) | controller 🡨🡪 view |

Controller 🡪 view , controller 🡨 view, controller 🡨🡪 view

Html – view / template

ts file/class – Controller / model

Angular is a MVVM design pattern

MVC – Model View Controller

MVVM – Model View View Model

In app.module.ts file add these lines



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

imports: [

    BrowserModule,

    AppRoutingModule,

    FormsModule



  ],

Bootstrap – Is a HTML,CSS, JS Based Front End Development framework.

It simplifies the process of creating responsive web apps.

Responsive means – look & feel of the app remain same irrespective of the screen size

Apps that will have same UI in various scree size --- responsive apps

<https://material.angular.io/>

<https://getbootstrap.com/>

ng new p1-frontend