**Angular ng commands:-**

1. ng generate class models/Student
2. ng generate service services/api --skipTests=true
3. ng generate interceptor helper/interceptor
4. ng generate module moduleName
5. ng generate component componentName

**BUILDING BLOCKS OF ANGULAR:-**

1. Module
2. Component
3. Templates
4. Metadata
5. Data Binding
6. Directives
7. Service
8. Dependency Injection
9. Decorators
10. Pipes
11. Routing

**DataTypes:-**

1. String
2. Number
3. Boolean
4. Void
5. Null
6. Undefined
7. Any

**Module-**

app.module.ts is the file which contains all components, directives, pipe, services related to that module.

All above mentioned files should needs to be imported in app.module.ts

-**declarations**: The components in this module.

**-imports**: The modules that are required by the current module. It enables an Angular module to use functionality that was defined in another Angular module.

**-exports**:- It enables an Angular module to expose some of its components/directives/pipes to the other modules in the applications. Without it, the components/directives/pipes defined in a module could only be used in that module.

-**providers**:- The service providers, if any.

**-bootstrap**: The root component that Angular creates and inserts into the index.html host web page.

**Rotuing-Module:-**

App-routing.module.ts is to declare list of routings required and their respective components for those routings.

**Eager Loading:-**

* all the feature modules will be loaded before the application starts. Hence the subsequent request to the application will be faster.
* Better useful for small size application

**Lazy Loading:-**

* module will be loaded on demand and hence application start will be faster.
* For large size application
* It load it using l**oadChildren** property in route configuration

**Component Life Cycle:-**

1. Constructor
2. ngOnChanges

It is executed whenever the component's input properties change.

1. ngOnInit

It is executed after the component's constructor method and is a good place to perform initial setup for the component.

1. ngDoCheck

It is executed during every change detection cycle and is a good place to perform custom change detection.

1. ngAfterContentInit

It is executed after the component's content has been initialized and is a good place to perform additional setup for the component's content.

1. ngAfterContentChecked

It is executed after the component's content has been checked and is a good place to perform additional operations based on the component's content.

1. ngAfterViewInit

It is executed after the component's view has been initialized and is a good place to perform additional setup for the component's view.

1. ngAfterViewChecked

It is executed after the component's view has been checked and is a good place to perform additional operations based on the component's view.

1. ngOnDestroy

It is executed just before the component is destroyed and is a good place to perform cleanup operations for the component.

Angular Forms:-

1. Reactive Form

Ref [Angular Basics: What are Reactive Forms and When to Use Them? (telerik.com)](https://www.telerik.com/blogs/angular-basics-what-reactive-forms-when-use-them)

1. Template Driven Form

**Pipes(Filter):-**

Format the data in the template It is also called filter

1. Currency Pipe
2. Date Pipe
3. Uppercase Pipe
4. Lowercase Pipe
5. Decimal Pipe
6. JSON Pipe

**Template Reference Variable**:-

We can use template reference variable to pass the value instead of $event.

For example,

<h2>Template Reference Variable</h2>

<input #el (input)="handleInput1(el)">

<p>You have entered {{val}}</p>

val="";

handleInput1(element) {

this.val=element.value;

}

**Decorators:-**

There are 4 types of decorators

1. Class Decorators

@NgModule, @Component, @Injectable, @Directive, @Pipe

1. Property decorators

@Input, @Output, @HostBinding, @ContentChild, @ContentChildren, @ViewChild, @ViewChildren

1. Method decorators

@HostListener

1. Parameter decorators

@Inject, @Self, @SkipSelf, @Optional, @Host

**Change Detection:-**

Angular change detection is a built-in framework feature that ensures the automatic synchronization between the data of a component and its HTML template view

**Angular Boot Strapping:-**

1. Executes main.ts file

2. Main.ts file booting Appmodule file using the code of

platformBrowserDynamic().bootstrapModule(AppModule)

3. Appmodule bootstrapping the AppComponent file using the code of

bootstrap: [AppComponent]

4. Now the index.html file will be triggered through AppComponent file.AppComponent.ts having the selector tag of app-root, this root tag is defined in index.html file.

<app-root></app-root>

Ref:- <https://www.tektutorialshub.com/angular/angular-bootstrapping-application/>

**Services:-**

1. create an export class and you need to decorate that class with @Injectable decorator
2. import the Injectable decorator from the angular core library.
3. services are used to share a single piece of code across multiple components.
4. These services are used to hold business logic

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

@Injectable()

export class DebugService {

constructor() { }

// Method and Properties

}

**Another Way**

@Injectable({

providedIn: 'root'

})

**Angular Components Communication:-**

1. Parent to Child Communication:-
2. Child to Parent Communication:-
3. Communication through service

Ref <https://reactgo.com/angular-component-communication/>

https://www.knowledgehut.com/tutorials/angular/services-in-angular

Ref: https://www.thirdrocktechkno.com/blog/angular-component-communication/

**How to delete Angular Components:-**

1.Remove the import line reference from Angular app.module.ts file.

2.Remove the component declaration from @NgModule declaration array in app.module.ts file

3.And then manually delete the component folder from Angular project.

4.Finally Delete all the references of component manually from the Angular project.

**Async Pipe:-**

It subscribes to the observable and emits the last value emitted.

When a new value is emitted, it marks the component to be checked for the changes.

The async pipe automatically unsubscribes when the component is destroyed to avoid potential memory

JD for an MNC:-

Strong technical understanding of Angular framework with regards to subscriptions, promises, pipes, directives, observables, behaviour subjects, services, Angular routing

npm config set legacy-peer-deps true