1. Introduction to angular

To install angular cli

->npm install -g @angular/cli

To check angular version

Ng – version

To create project

Ng new project-name

To start the sever

Ng serve

Main.ts is the main file of the angular application

Angular is a platform and framework for building single-page client applications using HTML and TypeScript. It consists of core and optional functionalities implemented as TypeScript libraries. The fundamental concepts of Angular architecture are based on components and services.

1. \*\*Components\*\*: These are the basic building blocks of Angular applications. Components define views, which are sets of screen elements that Angular can modify according to the program logic and data.

2. \*\*Services\*\*: These provide background functionalities such as data fetching and are not directly related to views. Services can be injected into components as dependencies, promoting modularity, reusability, and efficiency.

3. \*\*Decorators\*\*: Components and services are classes marked with decorators. Decorators provide metadata that tells Angular how to use these classes.

4. \*\*Templates\*\*: The metadata for a component class links it to a template that defines its view. Templates combine HTML with Angular directives and binding markup, allowing Angular to modify HTML before rendering it.

5. \*\*Dependency Injection (DI)\*\*: The metadata for a service class allows Angular to provide it to components via dependency injection.

6. \*\*Router\*\*: Angular applications typically have many views arranged hierarchically. The Router service helps define navigation paths among views, offering sophisticated in-browser navigation capabilities.

1. Typescript Fundamentals

To install typescript:

Npm install -g typescript

To check the version of the typescript:

Tsc –version

To create new folder in ts

Mkdir ts-hello

Cd ts-hello

Code main.ts

* Main.ts will open in vs code

To install ts-node:

npm install -g ts-node

To compile typescript code as javascript code

When we run ng serve: typescript code got converted into javascript code. It is necessary to convert code into javascript code because browser has javascript engine v8 so that the code is easily understandable by the machine.

From cmd run

Got to cmd= tsc main.ts ( main.ts is the file name of the typescript)

Node main.js to get the file output

To create angular application:

ng new my-app --no-standalone

To generate component:

Go to cmd in vs code and do

Ng g c component-name

To generate service

Ng g s service-name

1. Components, Templates, Directives, Services
2. Dependency Injection

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