Angular Training

Beginner Level

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What is Angular

Angular is a JavaScript framework. It is used for building client-side mobile and desktop web applications using HTML, CSS and JavaScript or TypeScript. All the Angular applications are Single Page Applications (SPA's).

Setup:

Node Version:
 node --version

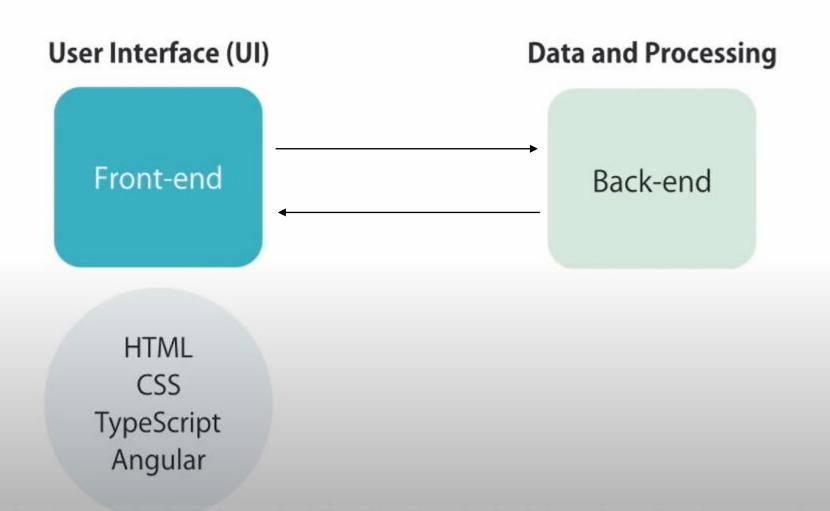
 OPTUM's npm registry: npm config set registry https://repo1.uhc.com/artifactory/api/npm/npm-virtual/ --global

Angular setup:
 npm install -g @angular/cli

Angular Features

- Modular approach
- Code Reusability
- Inbuilt Utility Code
- Unit Testing

Angular Architecture (High Level)



Angular History & Versions

Developed By: Google

2010 – Angular JS

2016 – Angular 2

2021 – Angular 12

JavaScript Quiz

Link:

Create a workspace and initial application

Cmd: ng new my-app

- No for strict type checking.
- Select Yes(Y) for Routing.
- Select SCSS for Styling.
- Download VS code Editor.
 Link: https://code.visualstudio.com/download

TypeScript Overview

- TypeScript is a typed superset of JavaScript that compiles to plain Javascript
- TypeScript is JavaScript's runtime with a compile-time type checker.
- Aligned with ES development for compatibility.

```
Eg:
```

```
let a:number;
a='s';
let a: number

Type 'string' is not assignable to type 'number'. ts(2322)

View Problem (Alt+F8) No quick fixes available
```

TypeScript Types

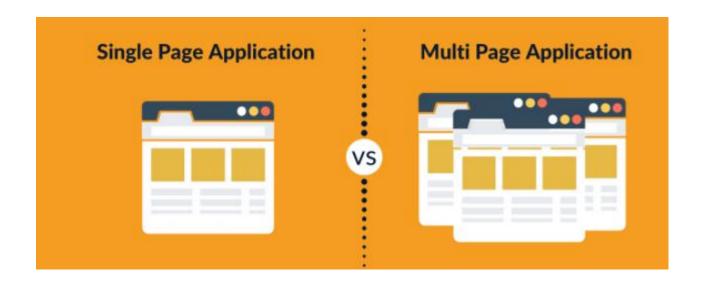
```
let a: number;
let b: string;
let c: boolean;
let d: any;
let e: number[] = [1, 2, 3];
let f: any[] = [1, 'two', true, { a: 1 }, false, [1]];
let g: Object = {
    a: 1,
    b: 'two'
const defaultIndex = 1;
const select = 'Select';
```

TypeScript Arrow Funtions

```
// JavaScript Syntax
let logJS = function (text) {
   console.log();
// TypeScript Syntax 1
let logTS = function (text: any): void {
   console.log(text);
  TypeScript Syntax 2 - using Arrow Functions
let logArrowFuncTS = (text: any): void => {
    console.log(text);
```

What is a SPA?

- Applications that are contained within one web page are called singlepage applications (SPA).
- All the views are displayed in one page i.e., "index.html".



Angular Architecture

