Angular Introduction

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What is Angular?

- Developed by Google
- Component-based framework
- Libraries for routing, forms, client-server coms, and more
- Suite of tools for developers
- Open Source
- Current Version 12.2.8

Why Angular???

https://www.theladders.com/jobs/searchresults-jobs?keywords=Angular

How to get started with Angular

- Install Node and NPM
- Install Angular CLI
- Create first Angular App

How to install Node.js

- Goto https://nodejs.org/en/download
- Download the version for your operating system
- Open cmd or terminal
- To check for installation type: node -v

How to install Angular and Angular CLI

- Open cmd or terminal
- Type: npm install –g @angular/cli
- Check version: ng version

Create an Angular application

- Create angular-workshop folder on desktop
- Open cmd or terminal and navigate to the folder you just created
- Type: ng new <application name>
- Navigate to app folder
- To see app:
  - ng serve
  - navigate to localhost:4200 in browser
- Folder structure
- Hello Angular

Interpolation {{}}

Things we can do:

- {{ title }}
- Functions
- Operations
- Comparisons

Things we cannot do:

- Assign values
- Typeof
- Increment
- Assignment

Angular CLI

- https://angular.io/cli
- ng serve
- ng generate
- ng generate component <yourComponent>
- ng g c <yourComponent>
- ng generate module <yourModule>
- ng generate service <yourService>
- ng generate class <yourClass>
- ng g c folderStructure/<yourComponent>
- ng build

Components

- Why do we use components?
- Create a component:
  - ng g c <componentFile/componentName>
- Creates 4 files
  - componentName.component.ts
  - componentName.component.html
  - componentName.component.spec.ts
  - componentName.component.css
- How to use the components?
  - <app-myComponent></app-myComponent>

Other Angular features to explore

- Modules
- Services
- Forms & Reactive Forms
- Logic and loops
- Authorization and Authentication
- Pipes
- Directives
- Routing
- APIs
- Testing

Questions?