Angular Cli

Scaffolding angular app

Problem - Creating new Angular app

When creating a new angular app there is a lot of repetitive tasks we need to do in our project

- Install webpack
- Install typescript
- configure webpack and typescript to work together
- install test framework
- environment variables

scaffolding a new angular project and setting the above list can take a lot of time

Angular Scaffolding tool - @angular/cli

- angular cli is used to start a new angular project
- we install angular cli with npm and usually install it as global npm package
- you can type ng -v to verify that it's installed
- you can type ng help if you want to see help on the available commands

New Angular Project

- to start a new project:
 - o ng new <project-name>
- the above command will create a new folder
- Let's run the command and examine what is created.

What our new project contains

- e2e we can create end to end tests using protractor. the tests we put in this folder
- unit testing karma and jasmine are configured to run unit tests. unit tests file has a spec.ts extension
- src/app the application code is located in this folder
- src/environments used for supplying changing variables based on environment
- **lint** used to alert us on code styling, rules are set to apply for angular code styling

Running our app

- to run our app
 - o ng serve
- this will run our app at http://localhost:4200
- additional flags
 - --port, --host, --environment
- you can check additional options for the command by running:
 - o ng serve --help
- app will auto reload when changing files

Generating components

- we can use angular cli to create angular architecture components
- during the course we won't use this functionality in order to better understand how to do things ourselves
- the syntax is:
 - ng generate <type of architecture component> <name>

Build

- you can use angular cli to build your project
- the command is:
 - o ng build
- a dist directory with the application will be prepared
- you can add --prod if you want the output minimized and tree shaking optimization

Miscellaneous

- some other commands you can use include:
 - o ng lint
 - o ng test
 - o ng e2e

Summary

- it's highly recommended to start you angular project with @angular/cli
- @angular/cli can save you a lot of time while starting your angular app