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GUIDE TO CODE AND RUN ANGULAR PROJECT

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I. Prerequisite

- Local machine must have:

Node: 20.10.0 Angular: 17.0.10

• Run this command to install (Must have node) -> npm install -g @angular/cli 17.0.10

II. Create the project

- Use command line provided by AngularCLI to create a project:

ng new <name> [options] or ng n <name> [option]

<name>: project name

[option]: some options (flags) that we want to automatically config while creating project

• List of available option: https://angular.io/cli/new

Note:

- Since Angular 17, Angular projects will be generated as "**standalone**" by default. To avoid that you can add a flag for it before creating projects:
 - o ng new <name> --standalone false
- By default, AngularCLI will set the "strict" mode on. Strict mode enforces stricter type-checking and coding practices in your Angular application. You can turn it off (**Optional**) by using:
 - o ng new <name> --strict=false
- You can combine multiple flags in one command
 - ng new <name> --strict=false --standalone false [options]

III. How to run project

- With a project that was created by AngularCLI, we only need to run this command:
 - o ng serve
- But with a project pulled from git or a project that is missing a node_modules folder. We need to run additional command line before run the project:
 - npm install.

IV. Generate items in project

- It's recommended to use AngularCLI to generate items

ng generate <schematic> <name> or ng g <schematic> <name>

- List of available schematic: https://angular.io/cli/generate
- Angular support these schematics (and their shortcut name):
 - o class (cl)
 - o guard (g)
 - o module (m)
 - component (c)
 - interceptor



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- o pipe (p)
- o directive (d)
- o interface (i)
- o service (s)
- o enum (e)

Note:

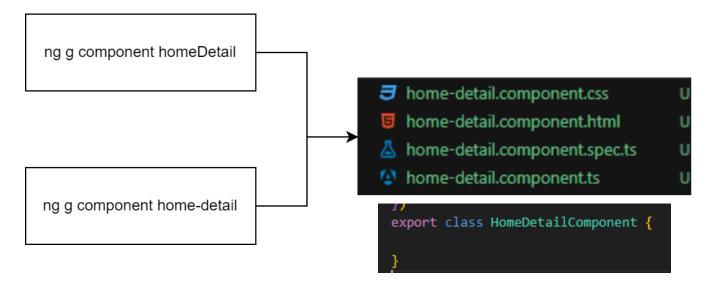
• In <name>, you can specify the directory you want to create in.

Example:

ng generate component modules/home

- -> This will automatically create a new folder home containing HomeComponent inside modules directory
 - If <name> using camelCase or separate with '-', it will generate the same

Example:



V. Convention

1. Order of variables and functions

Order should follow this order:



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```
export class ItemsComponent implements OnInit {
 @Input() items: Item[];
 @Output() deleteItem = new EventEmitter<number>();
  totalAmount = 0;
  contructor() {} 
 delete(index: number): void {}
 private changeAmount(): void {}
```

2. Naming convention

Туре	Rules	Examples
classes	UpperCamelCase. Nouns or noun phrases Always end with the purpose of the class (Ex: Component, Service,)	export class HomeDetailComponent { }
methods	lowerCamelCase. Verbs or verb phrases Must always have a return type	<pre>updateEmployee(): void {{</pre>
variables	lowerCamelCase Must have a return type	courseList: Course[]
constants	All uppercase with words separated by underscores Must have a return type	<pre>const URL_PATH : string = "localhost:8080" </pre>

1. Component break-down

If a component is reused in many places in your application. You should create a new component for it and put it in **shared components** folder:



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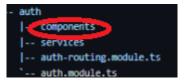
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```
|-- app
| |-- core
| | |-- guards
| | |-- interceptors
| | |-- models
| | -- services
| | '-- core.module.ts
| |-- shared
| | |-- directives
| |-- pipes
| | '-- shared.module.ts
```

• If a page contains hundreds lines of code or the code is complex. You should create a new component and put it in **components** folder of the **same** directory:



References:

- 2021_08_09_Angular_Tips_TrungAtom_1703140899779
- https://angular.io/cli/generate
- CodeConvention Vamos2024