

# Angular CLI

Angular CLI is a command-line tool for developing, scaffolding and maintaining Angular applications.



# **Angular CLI**

To install the Angular CLI - The CLI tool for Angular:

→ npm i -g @angular/cli

Read more about the angular package:

https://www.npmjs.com/package/@angular/cli





After installing the angular package (@angular/cli), use this command to create the Angular project:

→ ng new project\_name

- PS C:\Users\d.kanaan.ext\Desktop> ng new TheLearningHub
  - ? Would you like to add Angular routing? Yes
  - ? Which stylesheet format would you like to use? CSS

To run the project, use this command:

→ ng serve -o

PS C:\Users\d.kanaan.ext\Desktop\TheLearningHub> ng serve -o

? Would you like to share pseudonymous usage data about this project with the Angular Team at Google under Google's Privacy Policy at https://policies.google.com/privacy. For more

• details and how to change this setting, see https://angular.io/analytics. Yes





To know what the Angular version, use this command:

→ ng version

PS C:\Users\d.kanaan.ext\Desktop\TheLearningHub> ng version



Angular CLI: 16.0.4

Node: 18.16.0

Package Manager: npm 9.5.1

OS: win32 x64

Angular: 16.0.4

... animations, cli, common, compiler, compiler-cli, core, forms

... platform-browser, platform-browser-dynamic, router

Package	Version
@angular-devkit/architect	0.1600.4
@angular-devkit/build-angular	16.0.4

# **Exercise**

Search about What happens when we do NG serve?





#### Note: By default, angular project run on port 4200.

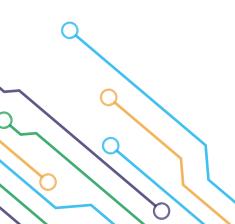
<b>Initial Chunk Files</b>	Names	Raw Size
vendor.js	vendor	2.26 MB
polyfills.js	polyfills	328.94 kB
styles.css, styles.js	styles	226.38 kB
main.js	main	48.12 kB
runtime.js	runtime	6.53 kB

Initial Total 2.86 MB

Build at: 2023-06-05T13:05:58.878Z - Hash: 5339c3b817c18923 - Time: 7629ms

\*\* Angular Live Development Server is listening on localhost:4200, open your browser on http://localhost:4200/ \*\*

√ Compiled successfully.



We will create an LMS website (TheLearningHub) during this course, to create the angular project for our demo, use this command:

- → ng new TheLearningHub
- PS C:\Users\d.kanaan.ext\Desktop> cd .\TheLearningHub\ PS C:\Users\d.kanaan.ext\Desktop\TheLearningHub>

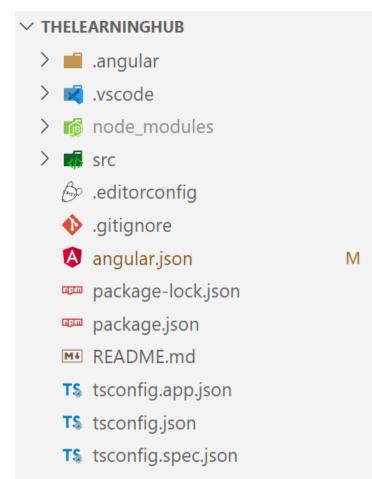
Go to The Learning Hub project using the cd command.

```
PS C:\Users\d.kanaan.ext\Desktop> cd .\TheLearningHub
PS C:\Users\d.kanaan.ext\Desktop\TheLearningHub> code .
```

○ PS C:\Users\d.kanaan.ext\Desktop\TheLearningHub>



### TheLearningHub project files: THELEARNINGHUB





### **Angular project files**

**node\_modules:** You can think of the node\_modules folder as a cache for the external modules that your project depends upon. NPM installs these modules with the NPM service, which downloads them from the web and copies them into the node\_modules folder.

**src:** The project will be worked on in this folder.

Inside the src, the app folder was created during the project setup and holds all the required files for the project.



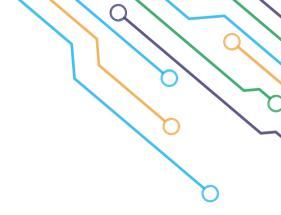
### **Angular project files**

assets: It contains the resources such as images, videos, audio, and bootstrap files.

index.html: It is the first file that will be loaded in the angular project.

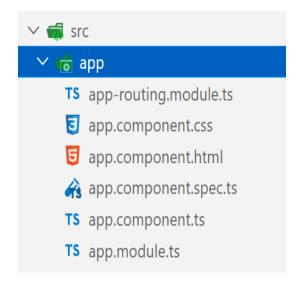
styles.css: It contains the CSS style that you would apply to the whole project.





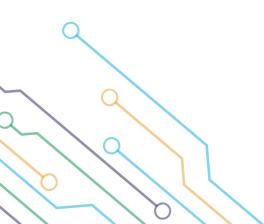
# **Angular project files**

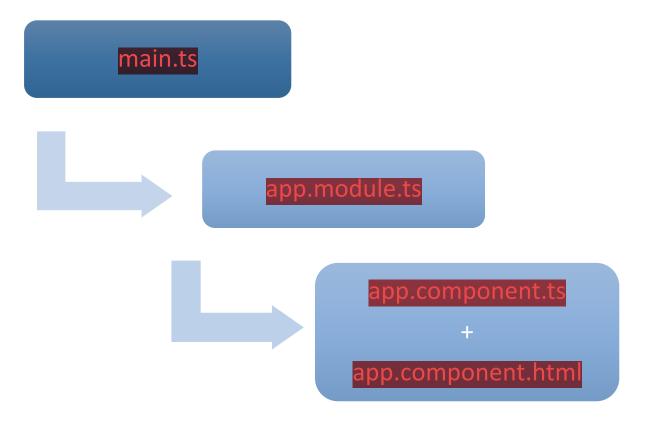
By default, the angular project contains one component called the app component.









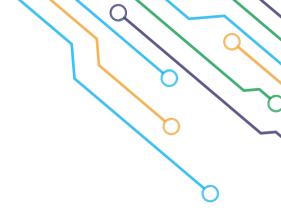












# **Overview of Angular Component**

Components are the basic building blocks of an Angular application.

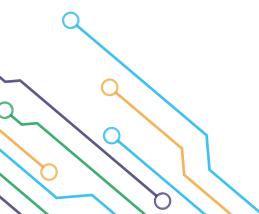
The Component defines the view and its data, which determine how the view appears and behaves.



**Navbar Component** 

Card Component Card Component Card Component

**Footer Component** 



### **Overview of Angular Component**

Components in Angular are JavaScript/TypeScript classes that are defined using @component Decorators.

Using the Decorator, the component can display a view & get metadata about the class.

Data Binding is the process used by the component to pass data to the view. (We will discuss it in Chapter 02).