* Installing Angular CLI

npm i @angular/cli -g

* -g → globally install so you can use from anywhere on your machine

ng --version → angular version check., also shows node version

* Creating angular workspace

- you can have multiple projects in a workspace

ng new myapp --createApplication=false → empty workspace

Or

ng new myapp → workspace with default project

workspace name

* Create new app

ng g app myapp1

g → generate

* Workspace file structure

| | File Name | Purpose |
|---|---|---|
| 1. | .editorconfig | configuration for code editors. |
| 2- | .gitignore | Specifies intentionally untracked files that git should ignore |
| 3. | angular.json | CLI configuration defaults for all projects in the workspace, including configuration options for build, serve & test tools that CLI uses like karma, protractor etc |
| 4- | package.json | configures npm package dependencies that are available to all projects in the workspace. |
| 5. | package-lock.json | Provides version information for all packages installed in node-modules by the npm client. (useful when multiple ppl work on project) |
| 6. | src/ | Source folder for root-level application project |

| | |
|---|---|
| 7. node_modules/ | provides npm packages to entire workspace. Workspace wide node modules dependencies are visible to all projects. |
| 8. tsconfig.json | config file for projects in workspace. All other config files inherit from this base config file. |

* Application project files.

| App. support files. | Purpose |
|---|---|
| 1 app/ | Contains the component files in which your application logic and data are defined |
| 2 assets/ | Contains image and other assets files to be copied as-in when you build your app |
| 3 favicon.ico | An icon to use for this application in the bookmarks bar. |
| 4 index.html | The main HTML page that is served when someone visits your site. |
| 5 main.ts | The main entry point of your application. Compiles the app with JIT compiler and bootstraps the app's root module to run in the browser. |
| 6 styles.sass | lists the CSS files that supply styles for a project. |

/src/App files.

| | |
|---|---|
| 1 app/app.component.ts | Defines the logic for the application's root component, named AppComponent. The view associated with this root component becomes the root of the view hierarchy as you add components and services to your application |
| 2 app/app.component.html | Defines the HTML template associated with the root AppComponent. |
| 3 app/app.component.css | Defines base CSS stylesheet for root AppComponent. |

4 app/app.component.spec.ts  Defines a unit test for root AppComponent

5 app/app.module.ts  Defines the root module, named AppModule that tells Angular how to assemble the application. Initially declares only the AppComponent. As you add more components to the App they must be declared here.

## Application configuration files.

1. tsconfig.app.json  Application specific Typescript configuration, including Typescript and Angular template compiler options.

2. tsconfig.spec.json  Typescript configuration for the application tests.

Pollyfills.ts → used to make app backward compatible.

Run the application

ng serve -o  inside your application folder.

To bootstrap your app you need atleast one module.

* main.ts → bootstrapModule(AppModule).

class AppModule{} → will have info about all components
→ also contain info about any 3rd party or angular libraries used

## Flow

main.ts → app.module.ts → app.component.ts
↓
app.component.html