

Lesson 01 Demo 02

Using Angular CLI Commands

Objective: To use Angular CLI commands

Tools required: Visual Studio Code

Prerequisites: JavaScript

Steps to be followed:

1. Check the version

- 2. Use the ng help command
- 3. Use the ng build command
- 4. Use the ng test command
- 5. Use the ng g c command
- 6. Use the ng g service command
- 7. Use the ng lint command

Step 1: Check the version

1.1 Open the terminal and run the following command to check the version of Angular CLI:

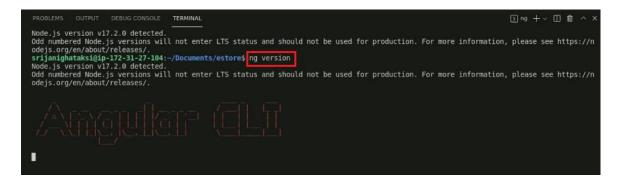
ng version





1.2 Run the same command in the Visual Studio Code terminal:

ng version



Step 2: Use the ng help command

2.1 Run the following command to see the list of available commands:

ng help

```
TERMINAL
OS: linux x64
Angular: 14.0.3
... animations, cli, common, compiler, compiler-cli, core, forms ... platform-browser, platform-browser-dynamic, router
Package
                                      Version
@angular-devkit/architect
                                      0.1400.3
@angular-devkit/build-angular
                                      14.0.3
@angular-devkit/core
@angular-devkit/schematics
                                      14.0.3
                                      14.0.3
                                      14.0.3
@schematics/angular
                                      7.5.5
typescript
Warning: The current version of Node (17.2.0) is not supported by Angular.
srijanighataksi@ip-172-31-27-104:-/Documents/estore$ ng help
```

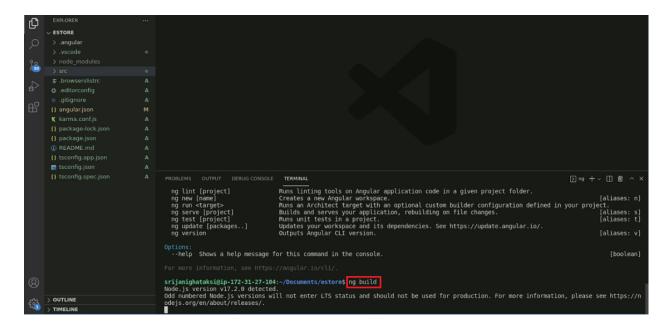
```
ng e2e [project]
ng extract-i18n [project]
ng generate
ng lint [project]
ng new [name]
ng run <target>
ng serve [project]
ng serve [project]
ng yeat [project]
ng run ot project]
ng run ot project]
ng yeat [project]
ng run ot project]
ng run ot project]
ng yeat [project]
ng yeat [project]
ng run ot project]
ng yeat [project]
yeat [project]
yeat [project]
ng yeat [project]
yeat [proj
```



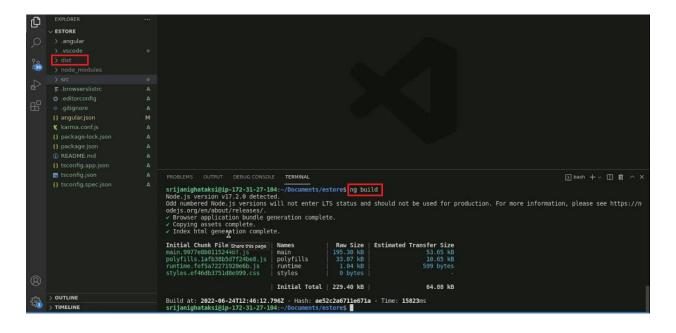
Step 3: Use the ng build command

3.1 Run the following command to create a distribution directory:

ng build



3.2 Check for the distribution directory in the project explorer





Step 4: Use the ng test command

4.1 Run the following command to do unit testing:

ng test

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

/ Copying assets complete.

/ Index html generation complete.

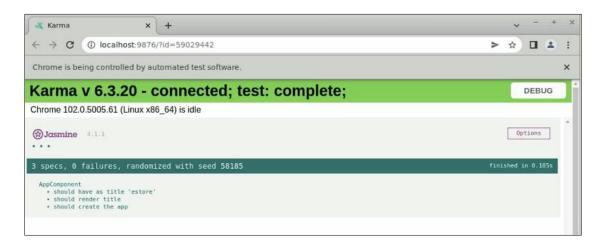
Initial Chunk Files | Names | Raw Size | Estimated Transfer Size | main. 997/e8b0115244bf.js | main | 195.30 kB | 53.65 kB | polyfills. lafb38b5d7f24be8.js | polyfills | 33.07 kB | 10.65 kB | runtime. fef5a72271920e6b.js | runtime | 1.04 kB | 599 bytes | styles.ef46db3751d8e99.css | styles | 0 bytes |

| Initial Total | 229.40 kB | 64.88 kB |

Build at: 2022-06-24T12:46:12.796Z - Hash: ae52c2a671le67la - Time: 15823ms | rijanighataksi@ip-172-31-27-104:~/Documents/estores | ng test | Node.js version v17.2.0 detected.

Odd numbered Node.js versions will not enter LTS status and should not be used for production. For more information, please see https://nodejs.org/en/about/releases/, 24 06 2022 12:49:54.524:WARN [karma]: No captured browser, open http://localhost:9876/
```

4.2 Once the browser pops up, check if the test ran successfully or not



Step 5: Use the ng g c command

5.1 Run the following command to generate **the profile** component:

ng g c profile

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Srijanighataksi@ip-172-31-27-104: ~/Documents/estore$ ng g c profile

Node.js version v17.2.0 detected.

Odd numbered Node.js versions will not enter LTS status and should not be used for production. For more information, please see https://n
odejs.org/en/about/releases/.

CREATE src/app/profile/profile.component.css (0 bytes)
CREATE src/app/profile/profile.component.html (22 bytes)
CREATE src/app/profile/profile.component.spec.ts (606 bytes)
CREATE src/app/profile/profile.component.ts (279 bytes)
UPDATE src/app/app.module.ts (479 bytes)
srijanighataksi@ip-172-31-27-104: ~/Documents/estore$ []
```



5.2 Now, check if the **profile** component is created or not

Step 6: Use the ng g service command

6.1 Run the following command to generate service:

ng g service DataProvider

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

srijanighataksi@ip-172-31-27-104: \( \sigma \) Documents/estore$ ng g c profile
Node.js version v17.2.0 detected.
Odd numbered Node.js versions will not enter LTS status and should not be used for production. For more information, please see https://n
odejs.org/en/about/releases/
CREATE src/app/profile.component.css (0 bytes)
CREATE src/app/profile/profile.component.thml (22 bytes)
CREATE src/app/profile/profile.component.spec.ts (606 bytes)
CREATE src/app/profile/profile.component.ts (279 bytes)
UPDATE src/app/papp.module.ts (479 bytes)
srijanighataksi@ip-172-31-27-104: \( \sigma \) Documents/estore$ ng g service DataProvider
Node.js version v17.2.0 detected.
Odd numbered Node.js versions will not enter LTS status and should not be used for production. For more information, please see https://n
odejs.org/en/about/releases/.
CREATE src/app/data-provider.service.spec.ts (388 bytes)
CREATE src/app/data-provider.service.ts (141 bytes)
srijanighataksi@ip-172-31-27-104: \( \sigma \) Documents/estore$ [
```

6.2 Now, check if the DataProvider service is created or not



Step 7: Use the ng lint command

7.1 Run the following command to run linting tools on the project:

ng lint

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

odejs.org/en/about/releases/.

CREATE src/app/data-provider.service.spec.ts (388 bytes)

CREATE src/app/data-provider.service.ts (141 bytes)

srijanighataksi@ip-172-31-27-104:-/Documents/estores

mg lint

Node.js version v17.2.0 detected.

Odd numbered Node.js versions will not enter LTS status and should not be used for production.

odejs.org/en/about/releases/.

Cannot find "illt" target for the specified project.

You can add a package that implements these capabilities.

For example:

ESLint: ng add @angular-eslint/schematics
```

7.2 If the package was not initially available, it is now installed. Run the same command to run the linting tools:

ng lint

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

UPDATE angular.json (4144 bytes)

Packages installed successfully.
srijanighataksi@ip-172-31-27-104:~/Documents/estore$ ng lint
Node.js version v17.2.0 detected.
```

7.3 Check if the problem pointed out is accurate or not. It is mentioned in the outcome, the **Lifecycle methods should not be empty.** Open the **profile.component.ts** file, and you can see that the constructor is empty. Hence, we can say that the command worked successfully.

```
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