

Lesson 01 Demo 01

Creating an Angular Project and Understanding the Project Structure

Objective: To create an Angular project and understand the project structure

Tools required: Visual Studio Code

Prerequisites: JavaScript

Steps to be followed:

1. Validate the installation of Angular CLI
2. Create a new Angular project
3. Run the project
4. Understand the project structure

Step 1: Validate the installation of Angular CLI

- 1.1 Open the terminal and run the following command to validate if Angular CLI has been installed:

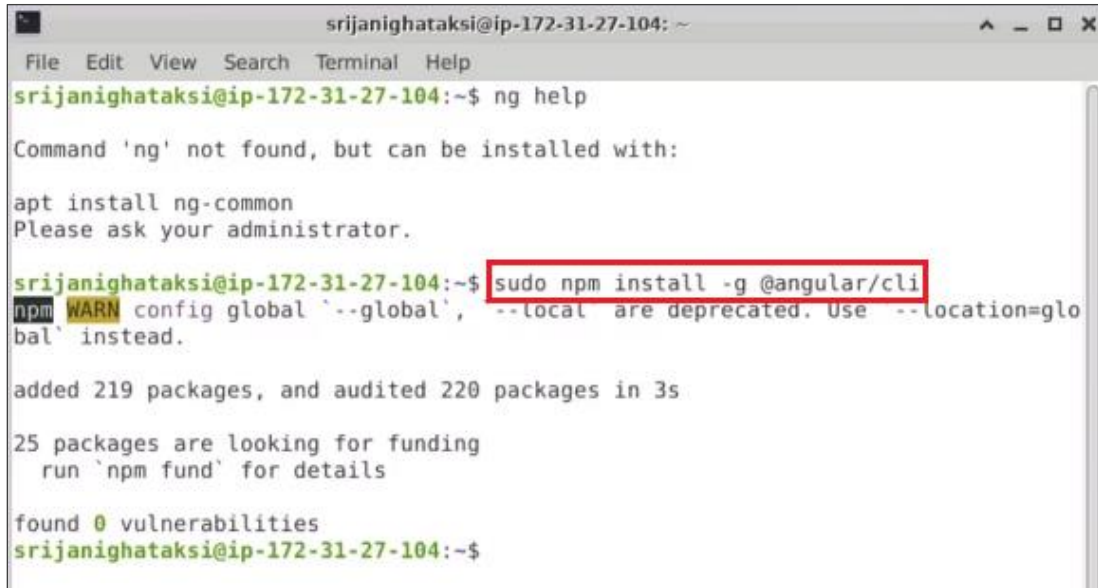
ng help



```
srijanighataksi@ip-172-31-27-104: ~  
File Edit View Search Terminal Help  
srijanighataksi@ip-172-31-27-104:~$ ng help  
Command 'ng' not found, but can be installed with:  
  
apt install ng-common  
Please ask your administrator.  
srijanighataksi@ip-172-31-27-104:~$
```

1.2 If it is not, run the following command to install it:

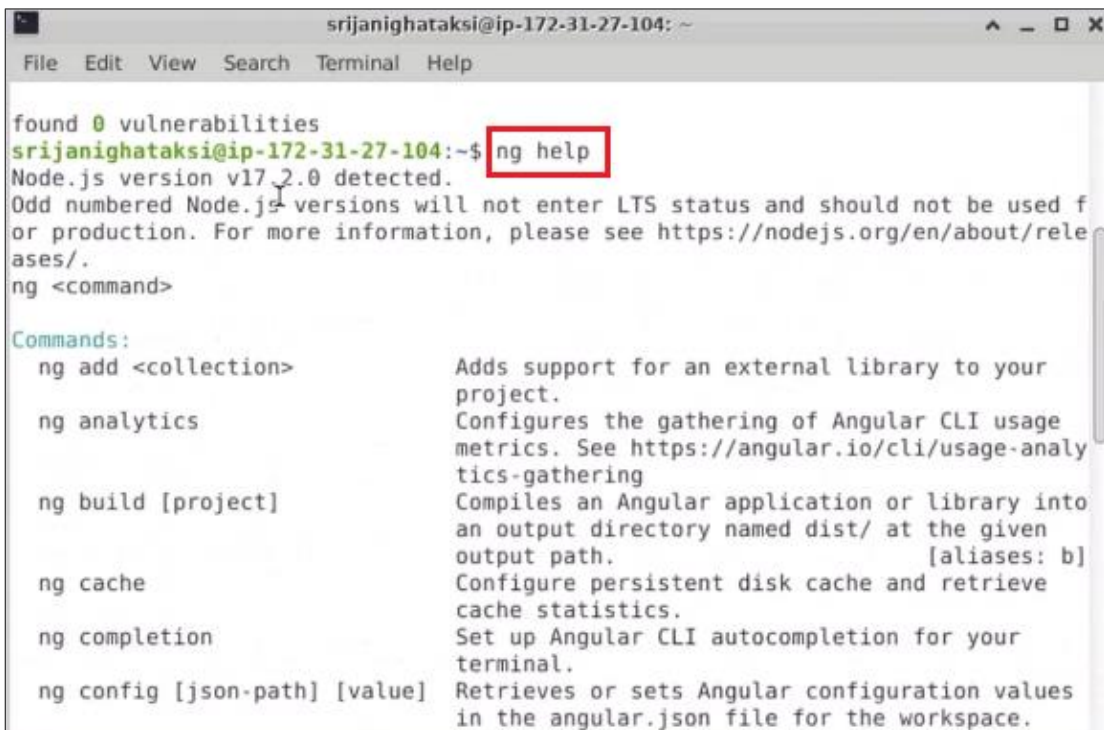
sudo npm install -g @angular/cli



```
srijanighataksi@ip-172-31-27-104: ~  
File Edit View Search Terminal Help  
srijanighataksi@ip-172-31-27-104:~$ ng help  
Command 'ng' not found, but can be installed with:  
  
apt install ng-common  
Please ask your administrator.  
  
srijanighataksi@ip-172-31-27-104:~$ sudo npm install -g @angular/cli  
npm WARN config global '--global', '--local' are deprecated. Use '--location=global' instead.  
  
added 219 packages, and audited 220 packages in 3s  
  
25 packages are looking for funding  
  run `npm fund` for details  
  
found 0 vulnerabilities  
srijanighataksi@ip-172-31-27-104:~$
```

1.3 Validate if it is correctly installed using the following command:

ng help

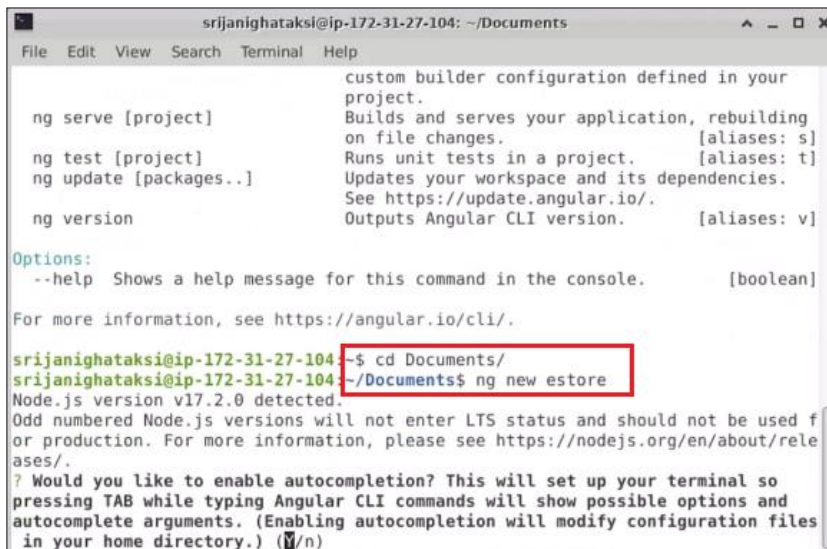


```
srijanighataksi@ip-172-31-27-104: ~  
File Edit View Search Terminal Help  
  
found 0 vulnerabilities  
srijanighataksi@ip-172-31-27-104:~$ ng help  
Node.js version v17.2.0 detected.  
Odd numbered Node.js versions will not enter LTS status and should not be used for production. For more information, please see https://nodejs.org/en/about/releases/.  
ng <command>  
  
Commands:  
  ng add <collection>      Adds support for an external library to your project.  
  ng analytics              Configures the gathering of Angular CLI usage metrics. See https://angular.io/cli/usage-analytics-gathering  
  ng build [project]        Compiles an Angular application or library into an output directory named dist/ at the given output path. [aliases: b]  
  ng cache                  Configure persistent disk cache and retrieve cache statistics.  
  ng completion             Set up Angular CLI autocompletion for your terminal.  
  ng config [json-path] [value] Retrieves or sets Angular configuration values in the angular.json file for the workspace.
```

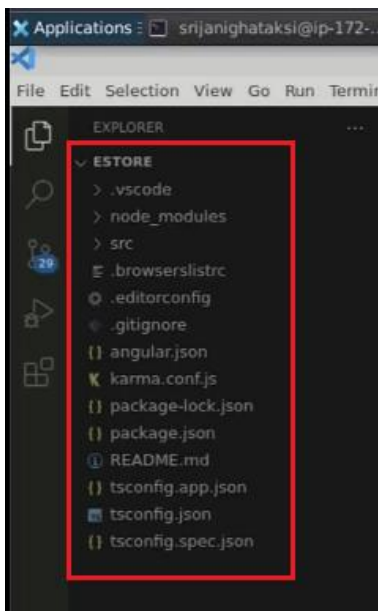
Step 2: Create a new Angular project

2.1 Run the following commands to create a new Angular project and answer **y** for all the successive queries:

```
cd Documents
ng new estore
```

A terminal window titled 'srijanighataksi@ip-172-31-27-104: ~/Documents'. It displays the Angular CLI help text for the 'ng' command, including subcommands like 'ng serve', 'ng test', 'ng update', and 'ng version', along with options like '--help'. Below the help text, the user enters the command 'cd Documents/' and then 'ng new estore'. The terminal shows the output of these commands, including the Node.js version (v17.2.0) and a prompt to enable autocompletion, which is answered with 'y'.

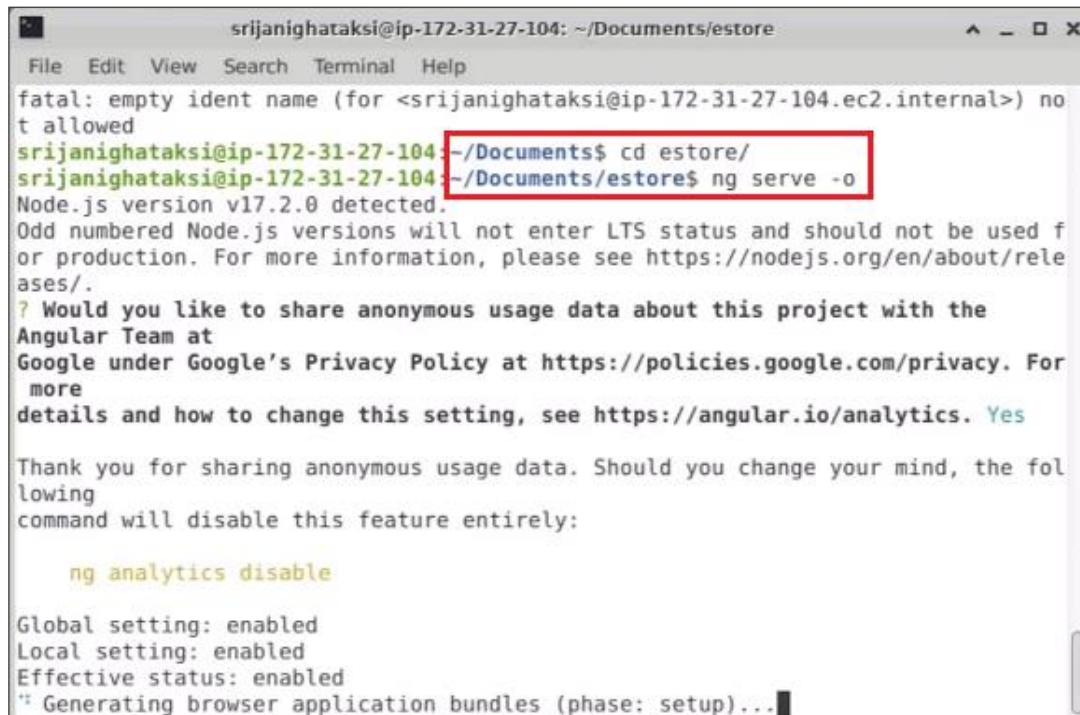
2.2 Open the project in Visual Studio Code



Step 3: Run the project

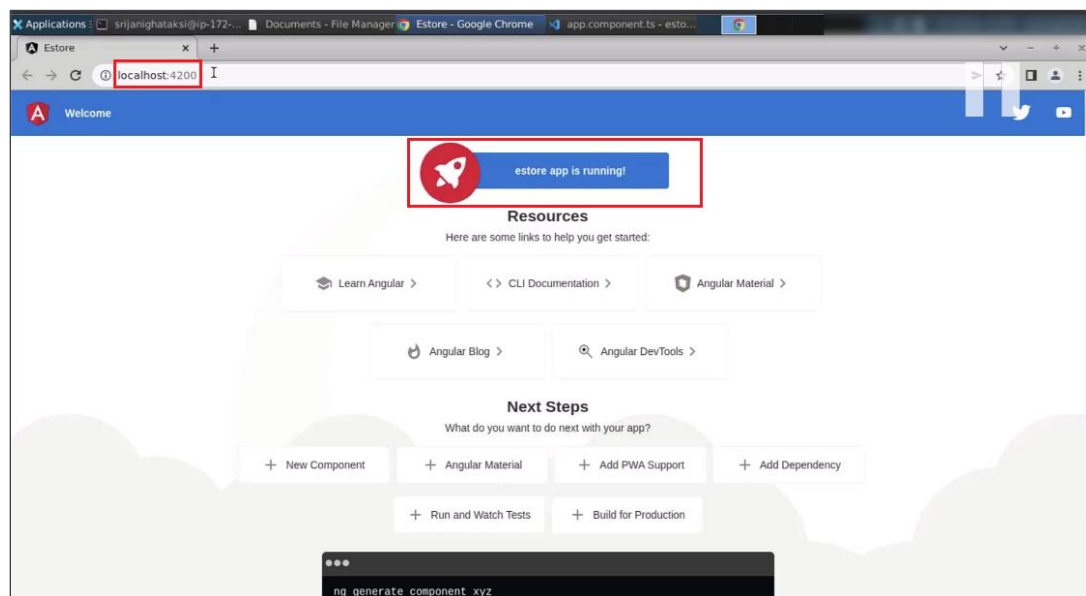
3.1 Run the following commands to run the project:

ng serve -o



```
srijanighataksi@ip-172-31-27-104: ~/Documents/estore
File Edit View Search Terminal Help
fatal: empty ident name (for <srijanighataksi@ip-172-31-27-104.ec2.internal>) not allowed
srijanighataksi@ip-172-31-27-104: ~/Documents$ cd estore/
srijanighataksi@ip-172-31-27-104: ~/Documents/estore$ ng serve -o
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/.
? Would you like to share anonymous 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
Thank you for sharing anonymous usage data. Should you change your mind, the following command will disable this feature entirely:
  ng analytics disable
Global setting: enabled
Local setting: enabled
Effective status: enabled
** Generating browser application bundles (phase: setup)...
```

3.2 Open the browser



Step 4: Understand the complete project structure

4.1 Understand the complete project structure by opening all the directories and packages

