Module 14 Group Project Assignment Documentation

Team Members

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1. Install Node.js v22.11.0 (LTS) on Windows using fnm (Fast Node Manager) from https://nodejs.org/en/download/prebuilt-installer
2. Check whether the installation is complete

```
C:\Users\visha>node -v
v22.11.0

C:\Users\visha>npm -v
10.9.0
```

3. Install Angular CLI globally

```
C:\Users\visha>npm install -g @angular/cli

added 296 packages in 13s

52 packages are looking for funding
  run `npm fund` for details
npm notice
npm notice New patch version of npm available! 10.9.0 -> 10.9.1
npm notice Changelog: https://github.com/npm/cli/releases/tag/v10.9.1
npm notice To update run: npm install -g npm@10.9.1
npm notice
```

4. Verify the version Angular CLI

```
C:\Users\visha>ng version


     _                      _                 ____ _     ___
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                |___/


Angular CLI: 19.0.2
Node: 22.11.0
Package Manager: npm 10.9.0
OS: win32 x64

Angular:
...

Package                      Version
------------------------------------------------------
@angular-devkit/architect    0.1900.2 (cli-only)
@angular-devkit/core         19.0.2 (cli-only)
@angular-devkit/schematics   19.0.2 (cli-only)
@schematics/angular          19.0.2 (cli-only)
```
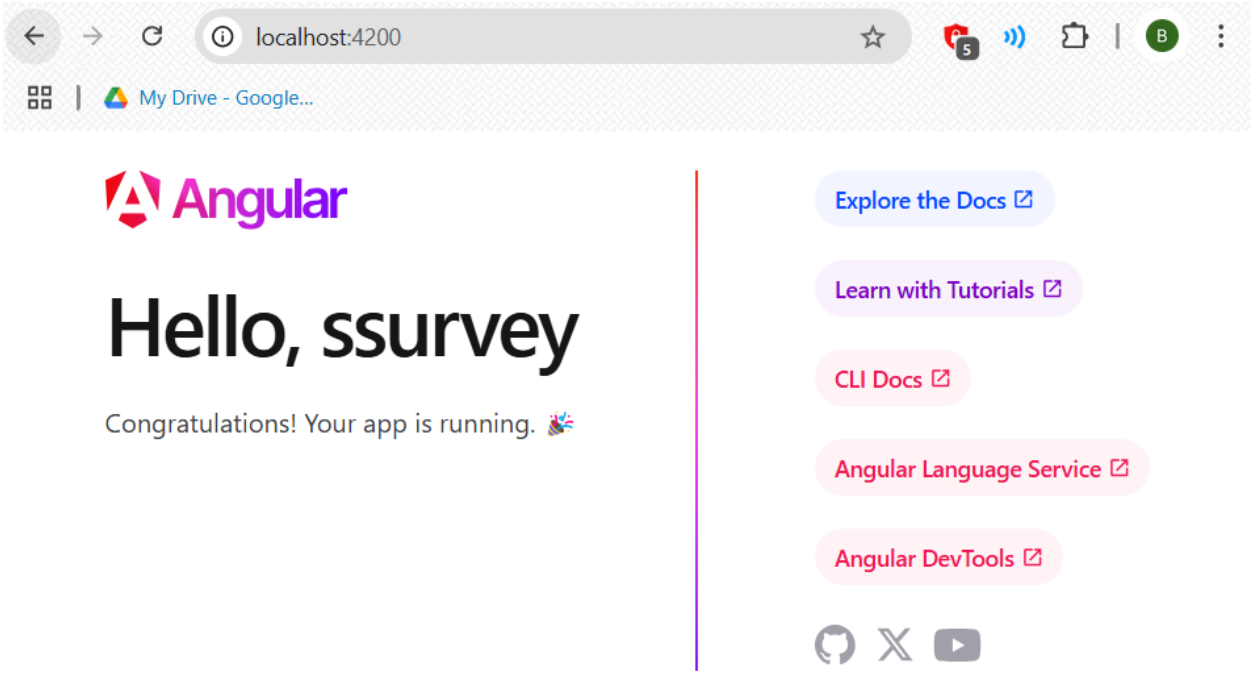

5. Create a new Angular project name ssurvey

```
C:\Users\visha> ng new ssurvey

Would you like to share pseudonymous usage data about this project with t
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.dev/cli/analytics.

   no
Global setting: disabled
Local setting: No local workspace configuration file.
Effective status: disabled
✔Which stylesheet format would you like to use? CSS             [
https://developer.mozilla.org/docs/Web/CSS                    ]
✔Do you want to enable Server-Side Rendering (SSR) and Static Site
Generation (SSG/Prerendering)? no
```

6. Navigate to the newly created project and run the development server

```
C:\Users\visha>cd ssurvey

C:\Users\visha\ssurvey>ng serve
Initial chunk files | Names         |  Raw size
polyfills.js        | polyfills     |  90.20 kB |
main.js             | main          |  18.18 kB |
styles.css          | styles        |  95 bytes |

                    | Initial total | 108.47 kB

Application bundle generation complete. [3.457 seconds]

Watch mode enabled. Watching for file changes...
NOTE: Raw file sizes do not reflect development server per-request transform
ations.
  ➜  Local:   http://localhost:4200/
  ➜  press h + enter to show help
```

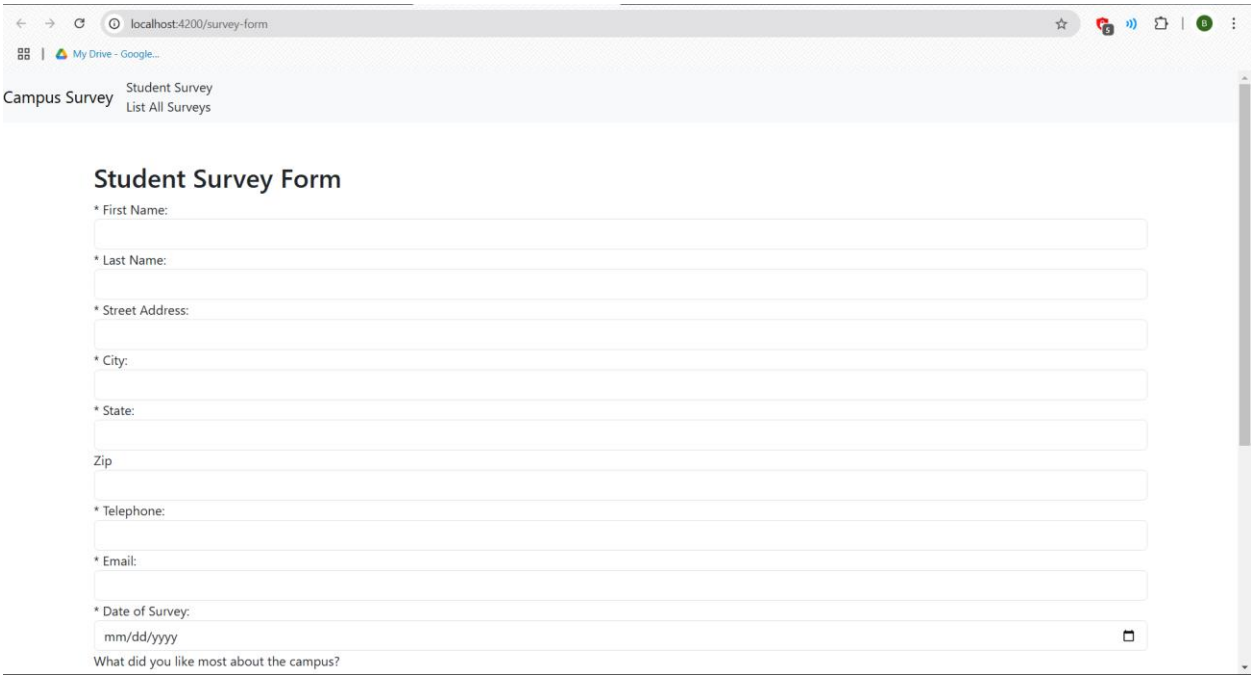
7. Open http://localhost:4200 in your browser



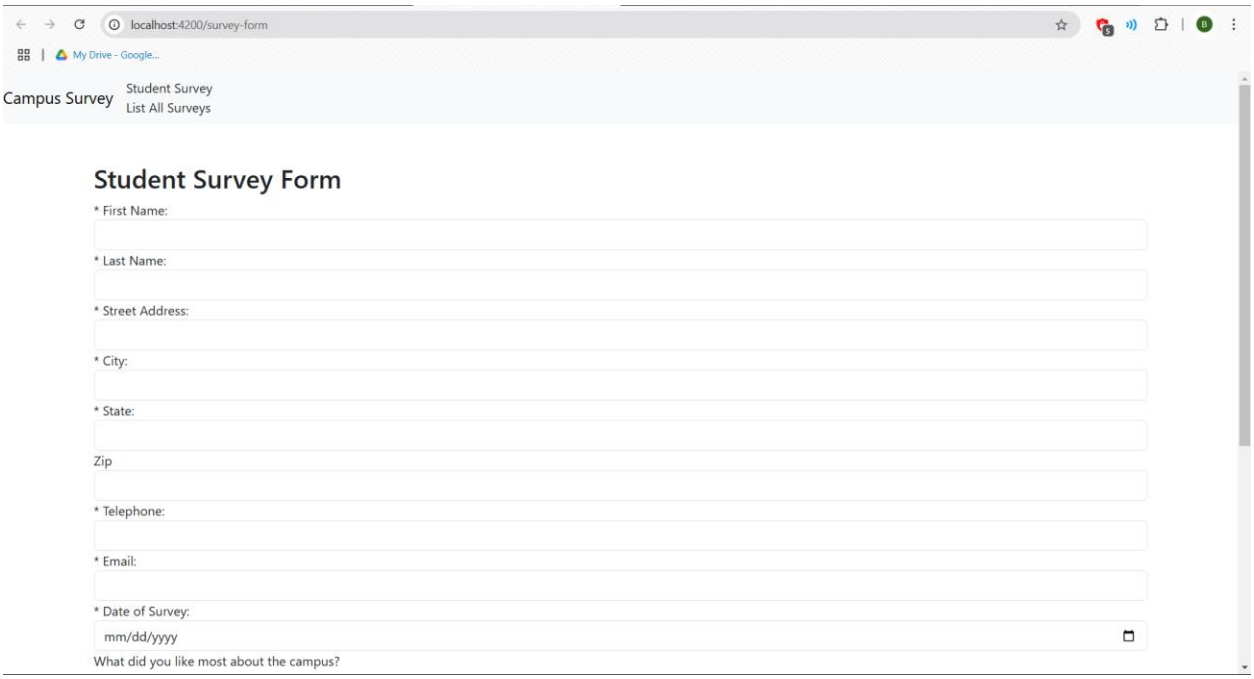
8. In our project we will be using a total of 2 components.component 1: student survey page and component 2: which is the list of all submitted surveys

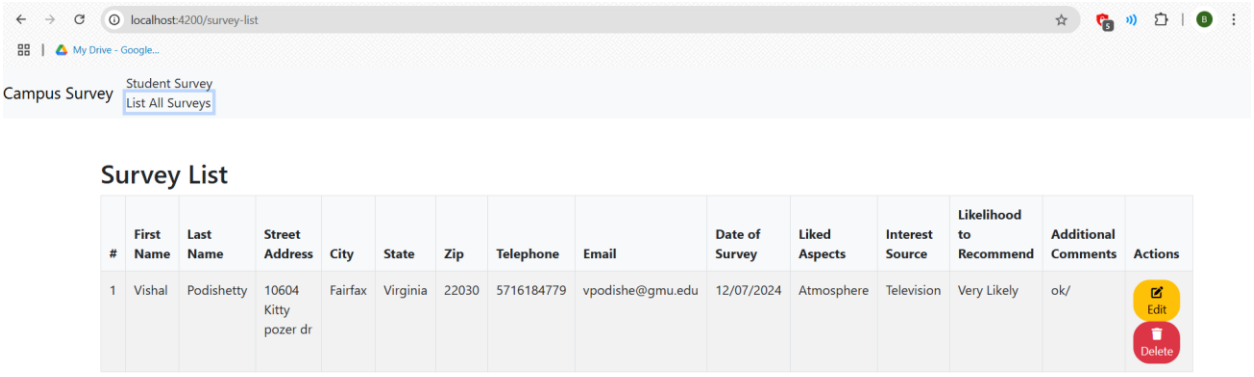
```
C:\Users\visha\ssurvey>ng generate component student-survey
CREATE src/app/student-survey/student-survey.component.html (30 bytes)
CREATE src/app/student-survey/student-survey.component.spec.ts (665 bytes)
CREATE src/app/student-survey/student-survey.component.ts (256 bytes)
CREATE src/app/student-survey/student-survey.component.css (0 bytes)

C:\Users\visha\ssurvey>ng generate component list-surveys
CREATE src/app/list-surveys/list-surveys.component.html (28 bytes)
CREATE src/app/list-surveys/list-surveys.component.spec.ts (651 bytes)
CREATE src/app/list-surveys/list-surveys.component.ts (248 bytes)
CREATE src/app/list-surveys/list-surveys.component.css (0 bytes)
```

9. Now open the project in vscode and open app.routes.ts , app.config.ts , app.component.html and update the files.Now run ng serve to see the updated page.

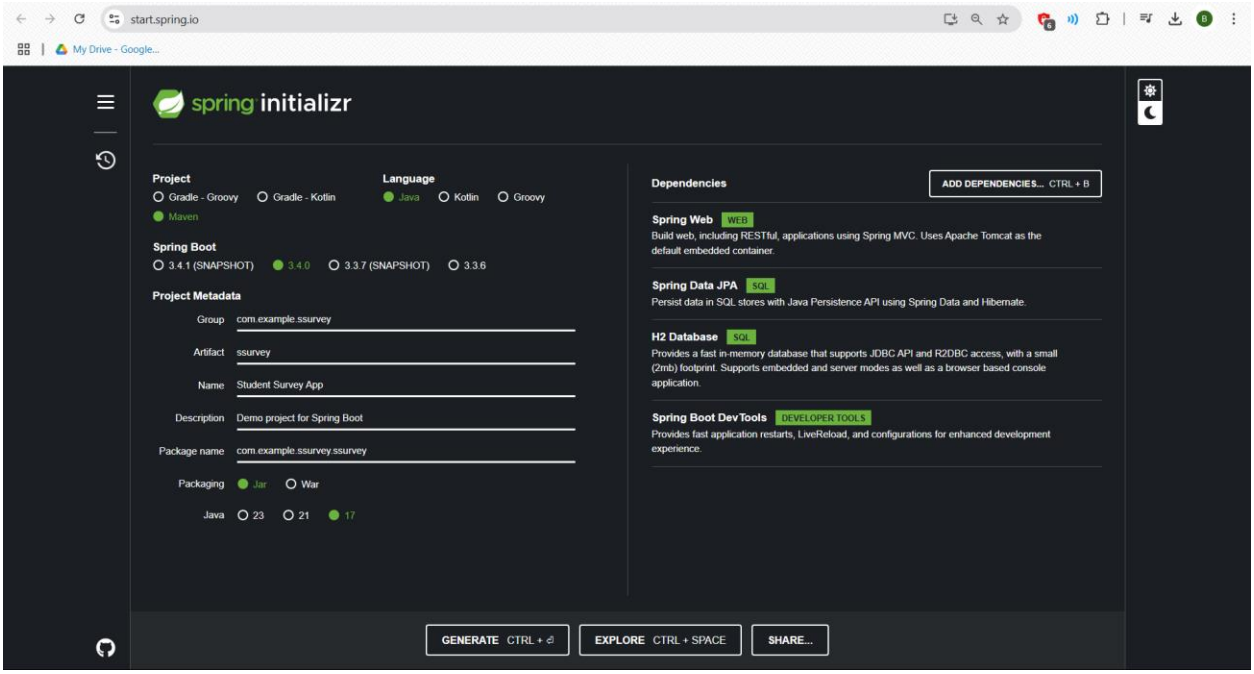


10. Now open the student-surveys.component.html student-surveys.component.ts , list-surveys.component.html, list-surveys.component.html and edit them to configure the functionality. And restart the Angular development server.The output will be something like this

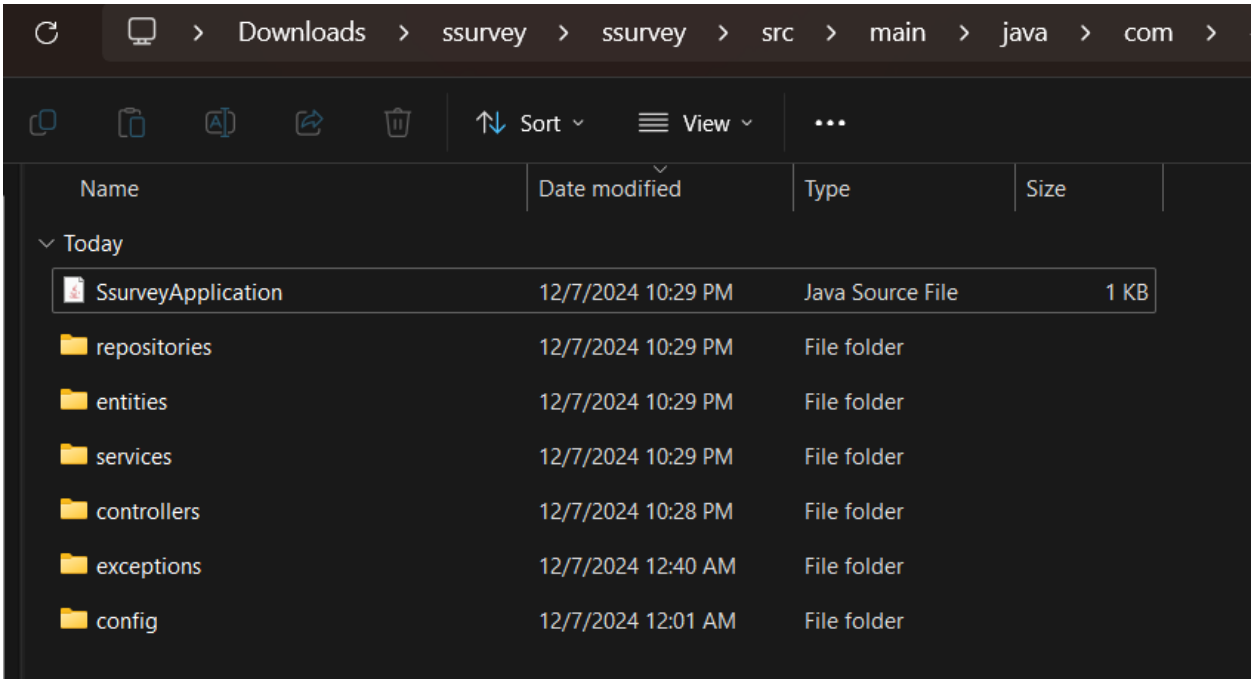




11. Now we have to connect our app to backend for that we are creating a creating a Spring Boot Project from Spring Initializr (https://start.spring.io/).and download the generated project.

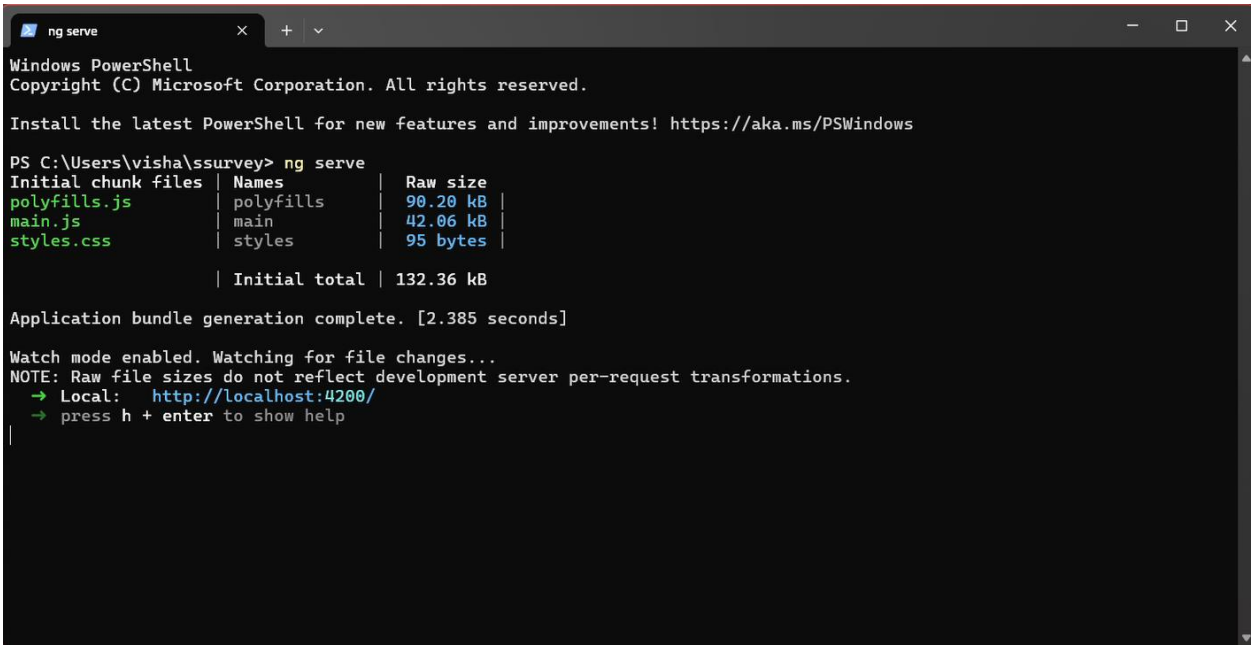


12. Open the generated spring boot project in vscode
13. Create 6 new folders in ssurvey\ssurvey\src\main\java\com\example\ssurvey\ssurvey as below

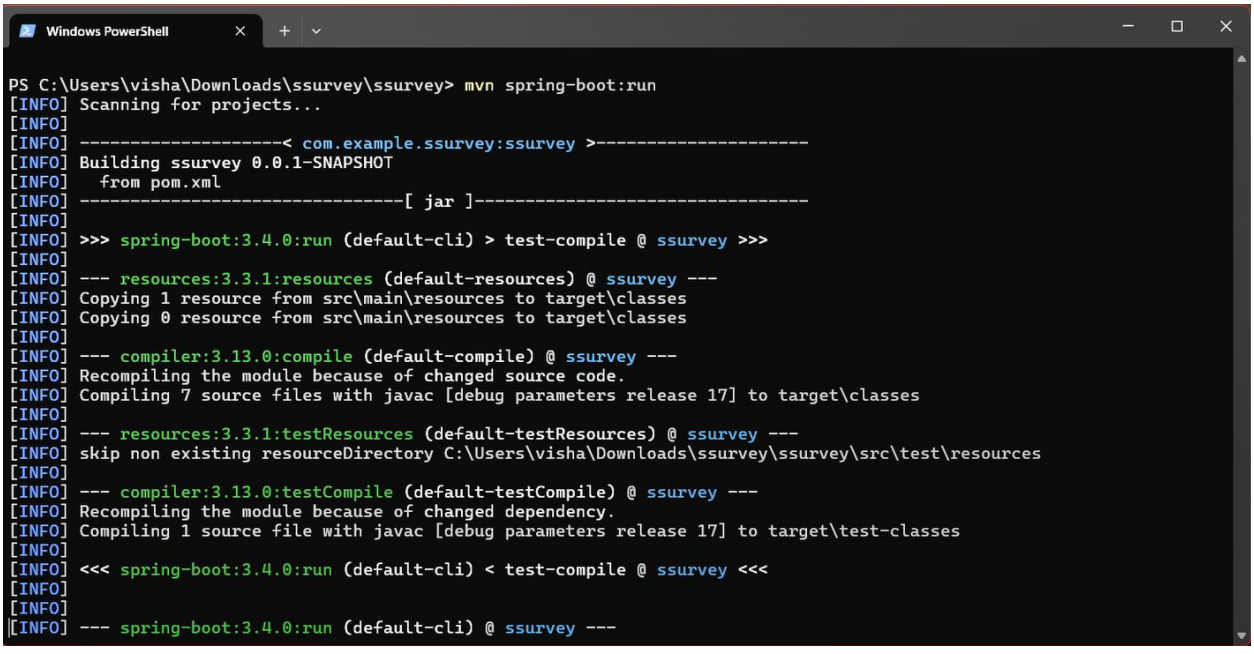


14. Now create a new java file according to the folder and edit them.
15. Now open the Angular Front end project again in VScode and integrate it with backend by editing required files

16. After succesfully integrating both paths open two terminals in each of the project files; the front end and the back end
17. First build the angular project by typing ng serve in the cmd prompt



18. Then build the backend by typing mvn spring-boot:run in the terminal



19. Now we have successfully integrated and built both front end and back end; where the survey form can take data from the users and store it in the backend and we can also perform CRUD operations on filled out survey forms.

20. Thank you!