**Install nodejs**

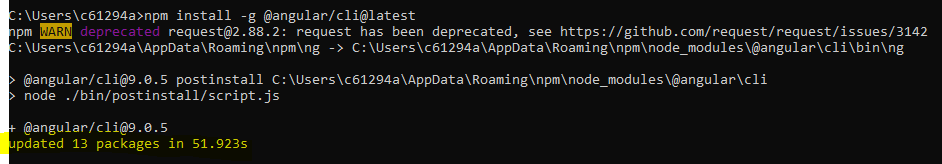
Download latest version of nodejs from nodejs website and install the application

**Angular CLI installation**

Run below command in the terminal

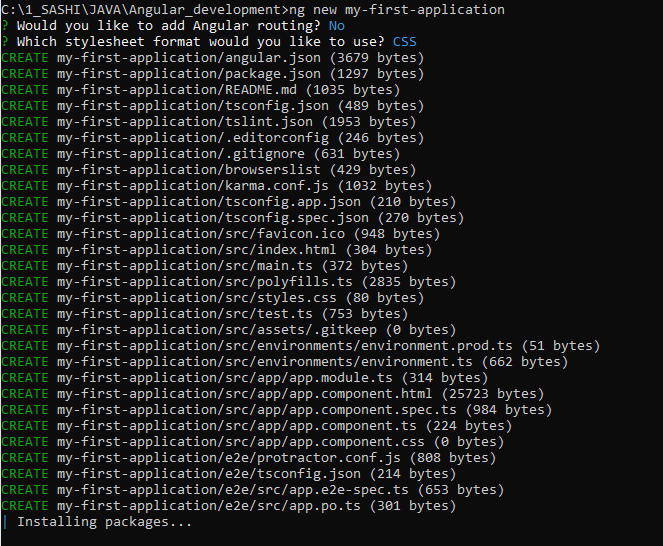
npm install -g @angular/cli@latest

here -g : globally – Installing the angular cli globally



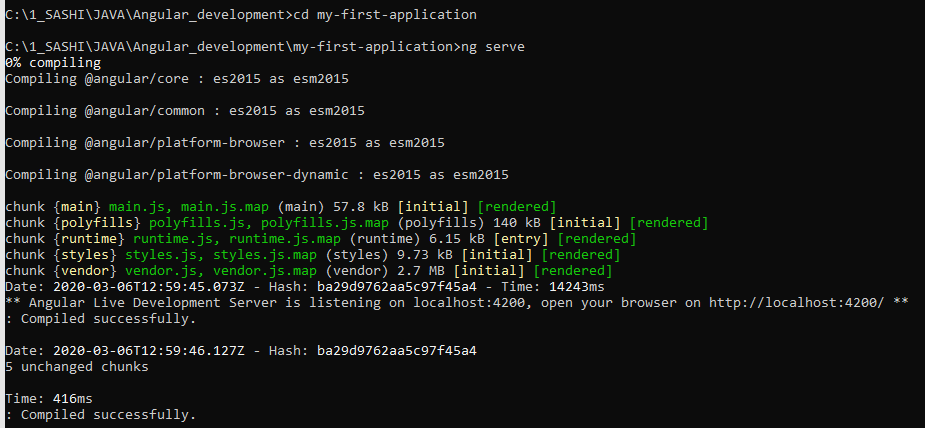
**Creating the first application**

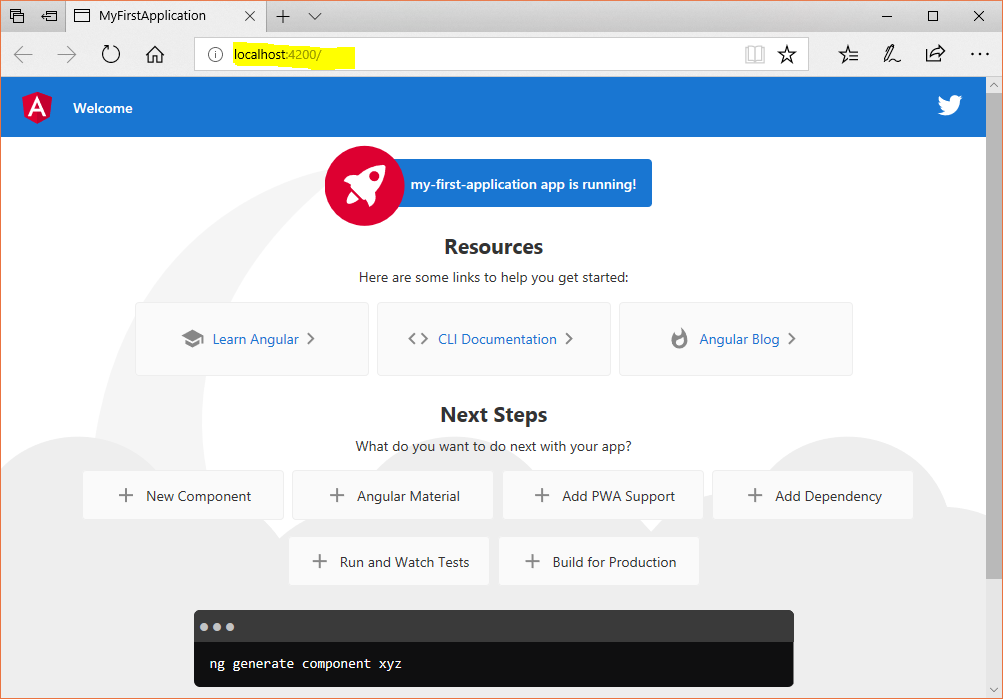
ng new <app\_name>



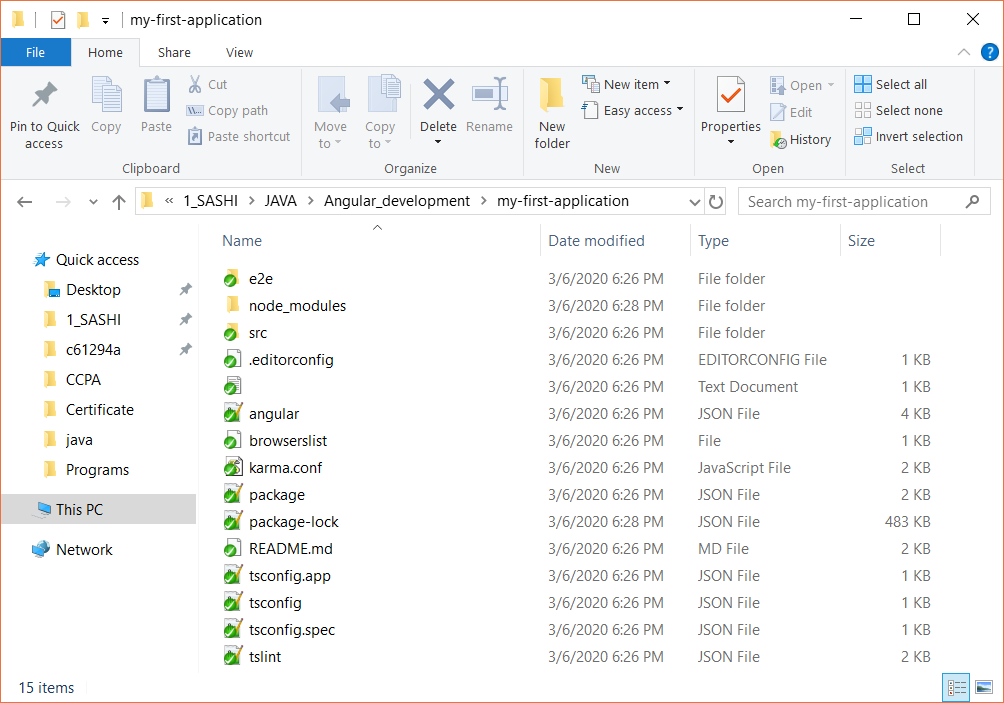
**Running the first application**

ng serve



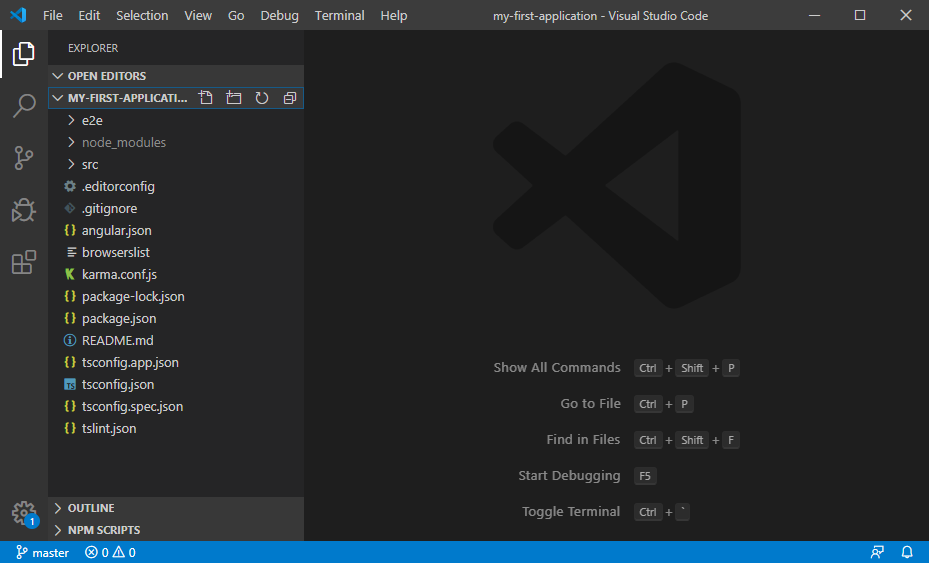


Structure of the project



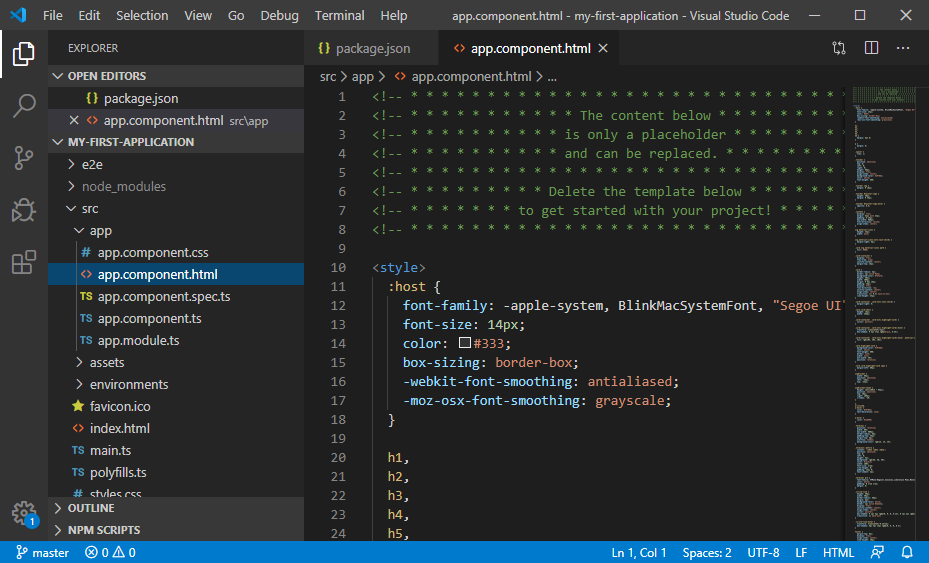
Download visual studio code from internet

Open the first project in the visual studio code editor

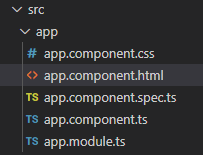


package.json – contains all the dependencies

Open the src 🡪 app 🡪 app.component.html file. This is the page, which is displayed, while we run the application.



app has below things



Change something in the

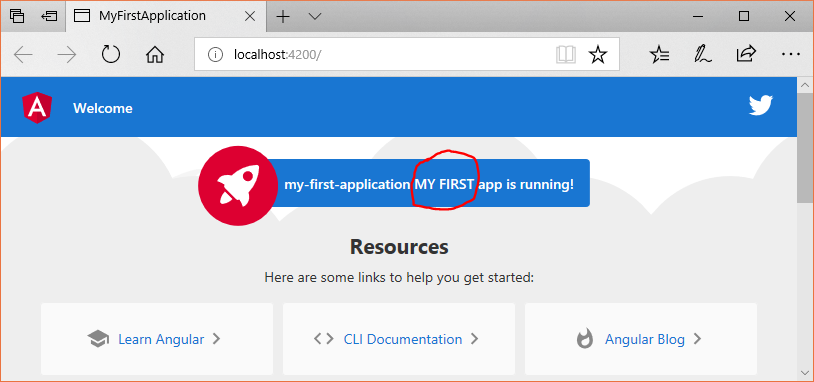
The below is the default one

<span>{{ title }} app is running!</span>

Change as

<span>{{ title }} MY FIRST app is running!</span>

Save it. No need to re-start the server. Look into the console.



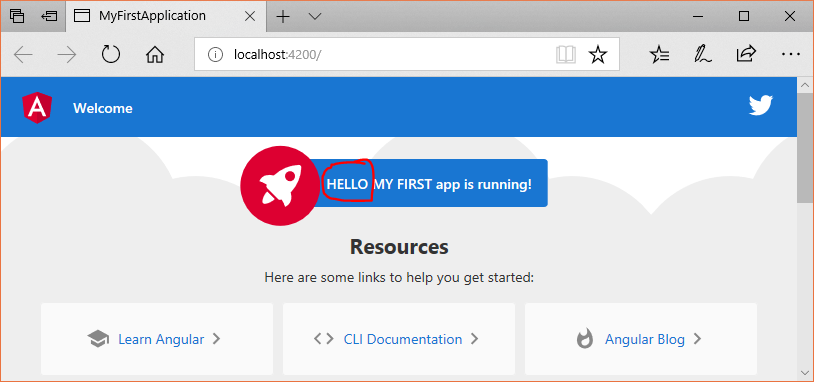
We will change the title

Open 🡪 app.component.ts 🡪 change the title as below

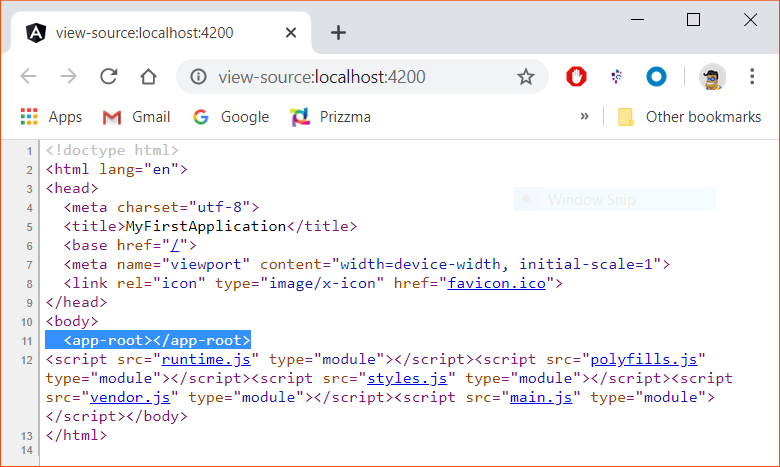
export class AppComponent {

  title = 'HELLO';

}



Inspect the element of this web page

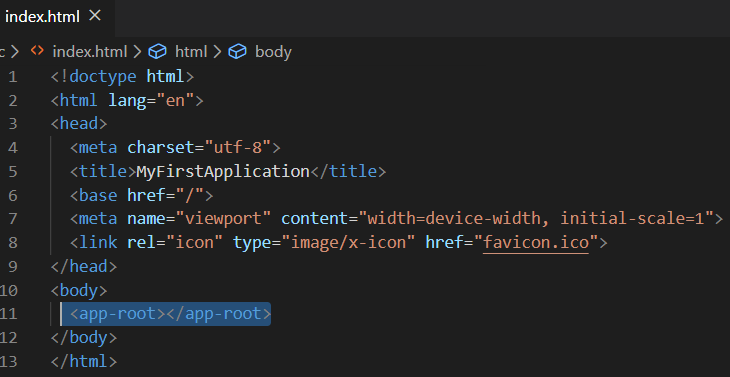


We can see, under body section, <app-root> is the complete kind of html file which takes care of the page.

The same tag <app-root> can be found in app.component.ts file

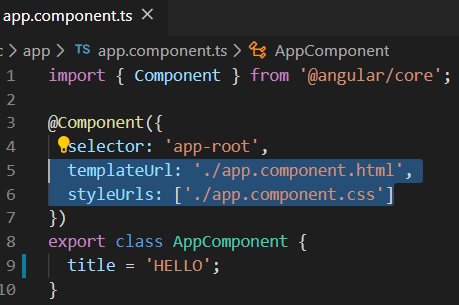


This <app-root> mentioned in the index.html file



How it works?

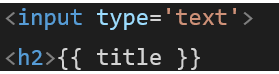
Angular always loads index.html file, while it loads the **index.html** file, it sees <app-root> under body section, <app-root> dynamically gets replaced by **app.component.ts** file (below image). In app.component.ts file, under **selector: 'app-root',**  we mentioned the html file (app.component.html) & css file (app.component.css). Both are picked and shown in index.html file



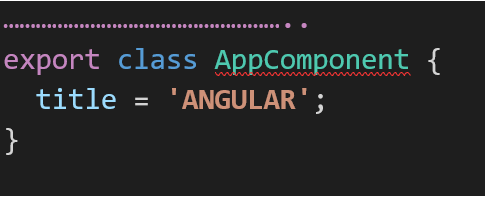
Let’s experiment below

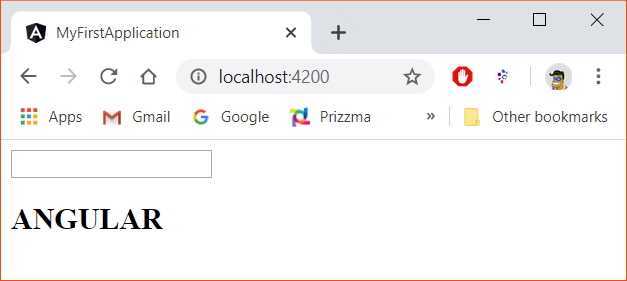
Ex 1 :

Remove everything from app.component.html file and keep below



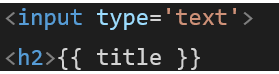
Change the title from app.component.ts file as below





How it works?

Angular loads index.html file, while it loads the **index.html** file, it sees <app-root> under body section, <app-root> dynamically gets replaced by **app.component.ts** file (below image). In app.component.ts file, under **selector: 'app-root',**  we mentioned the html file (app.component.html). In app.component.html file we mentioned only below one. So we’re getting above result



**ngModuel directive**

whatever we’re typing in the text box, same we can display using ngModel.

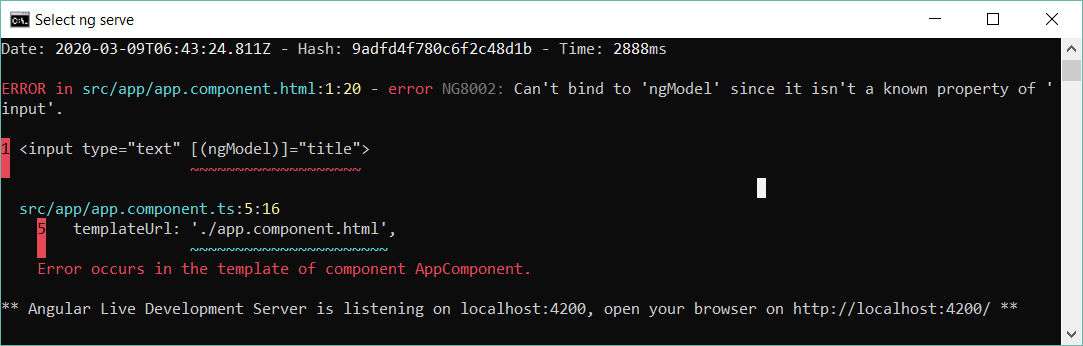
For that change in app.component.html file as shown below

<input type='text' [(ngModel)]="title">

<h2>{{ title }}

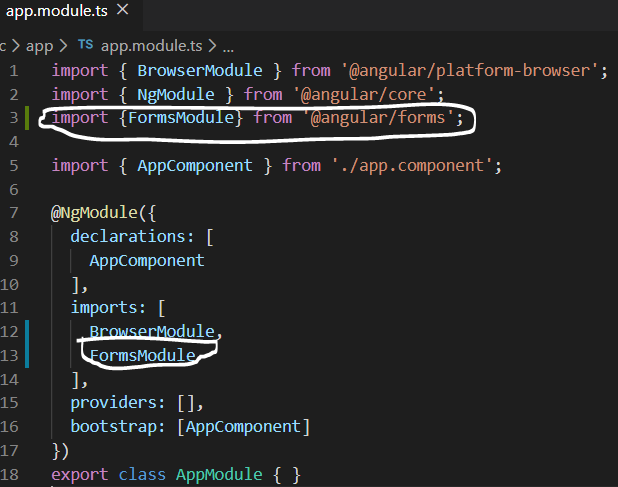
Whatever you are input in the text box, same copied to title label.

While running, getting below error.

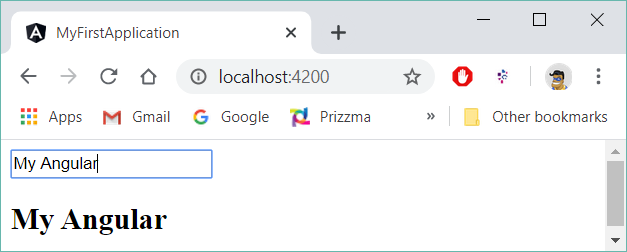


We need to import ngModel , because ngModel is not from Angular, it is from type script.

In app.module.ts, we can mention the import statement for ngModel



Now save it and see below



What is type script?



**Creating the second application with Bootstrap styling**

ng new my-second-app

import the project into vs code

To install bootstrap latest version follow below:

1. install the bootstrap latest version in the current project. This bootstrap applicable only projectwise.

C:\1\_SASHI\angular\my-second-app>**npm install --save bootstrap@4**

Here bootstrap version is 4. And it is only available to my-second-app project only.

1. To aware Angular to use the downloaded bootstrap, go to **angular.json** file.

Already one style file is mentioned as below

"styles": [

"src/styles.css"

],

You can navigate to src 🡪 style.css file. In this file, the global css can be defined.

Here, we can defined the node\_modules under node\_modules/bootstrap/dist/css/bootstrap.min.css file as shown below

"styles": [

**"node\_modules/bootstrap/dist/css/bootstrap.min.css",**

"src/styles.css"

],

Run the application and check in terminal, go to developer tools 🡪 Elements Tab 🡪 Under <head> section, we can see it is using bootstrap 4

