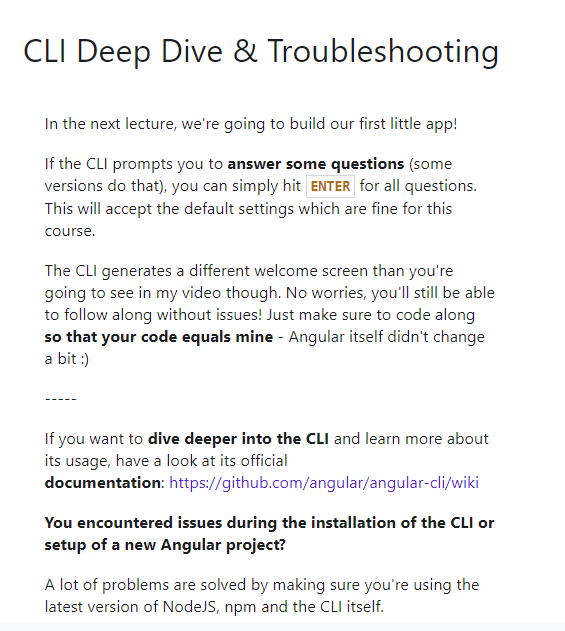
**Chap 1 Introduction**

**Chap 2 What is Angular**



**Chap 3 and 4 no code**

**Chap 5 CLI Deep Dive**

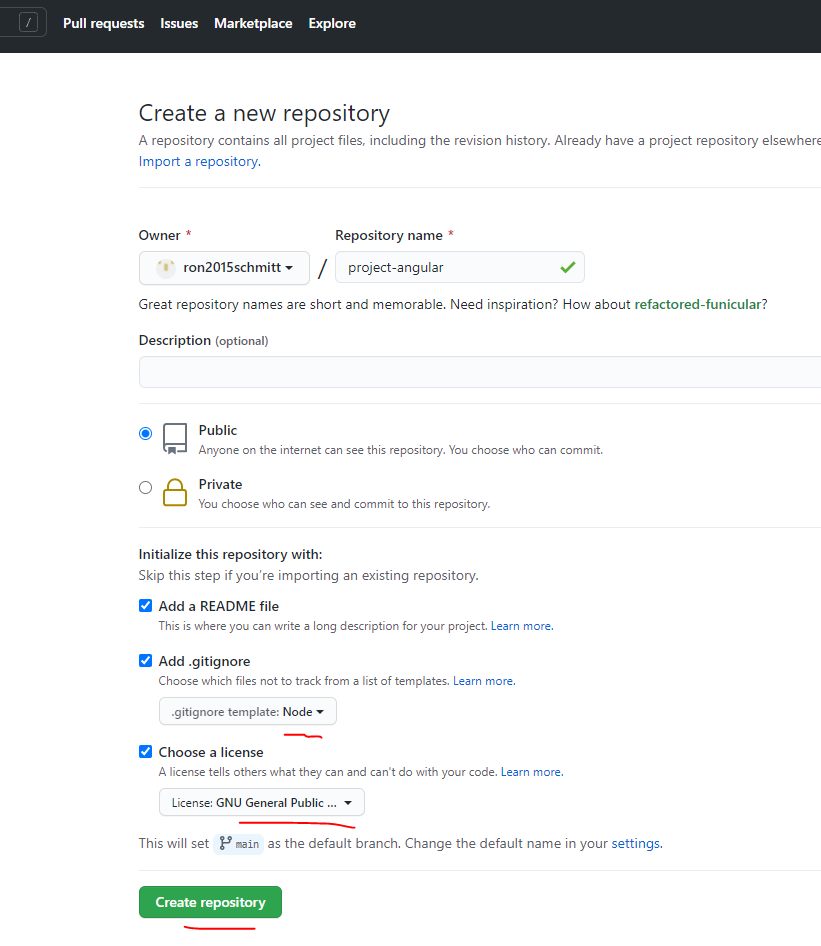


[**https://github.com/angular/angular-cli**](https://github.com/angular/angular-cli)

**Chap 6 Project set up and first app**

Need to isntall Node js

Create repo on github



git clone <https://github.com/ron2015schmitt/project-angular.git>

Then install angular using npm:



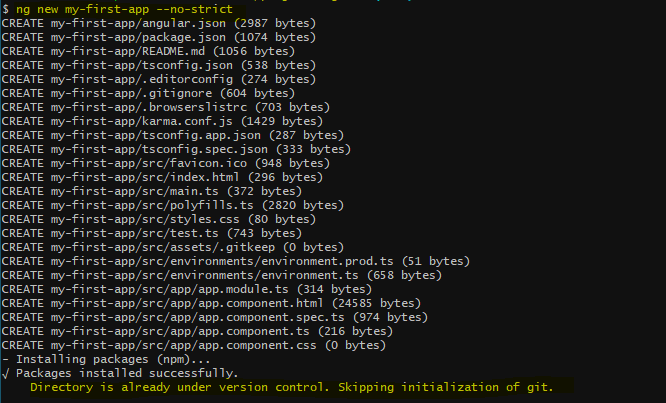
cd project-angular/

**global** install of angular

npm install -g @angular/cli@latest

create an angular project (ng is the CLI for Angular). This takes a few minutes

ng new my-first-app --no-strict

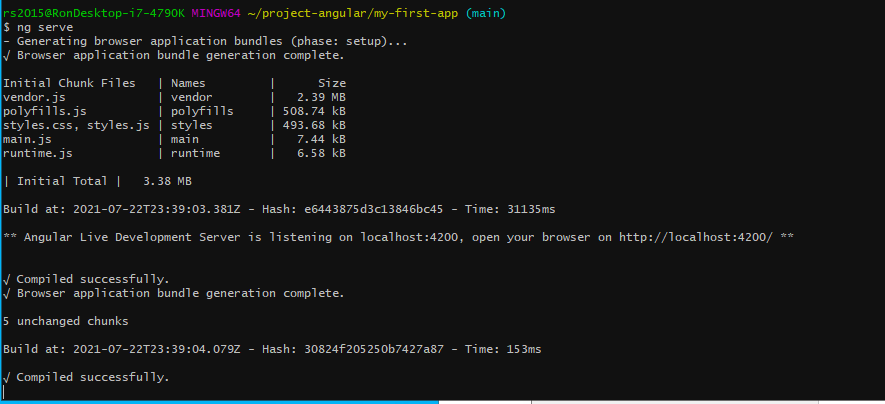


Now run the angular web server on the project

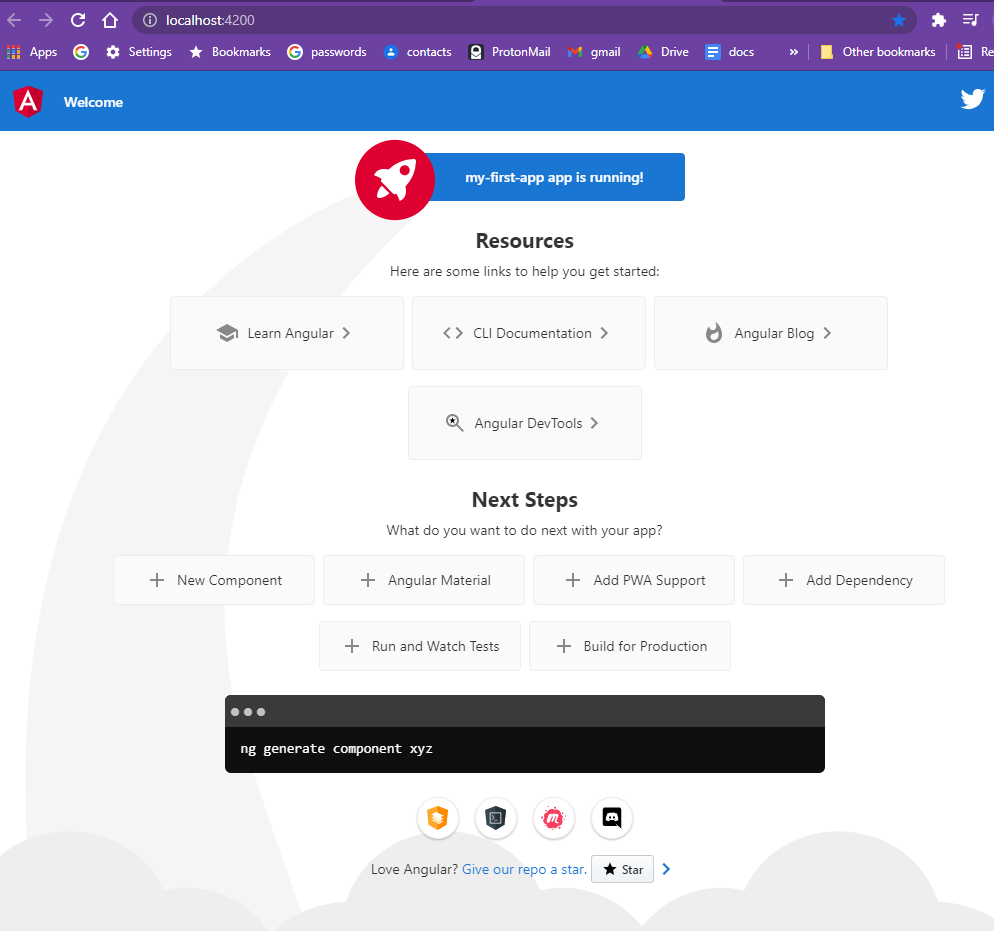
cd my-first-app

ng serve

eventually, after about a minute, it should finish compiling:



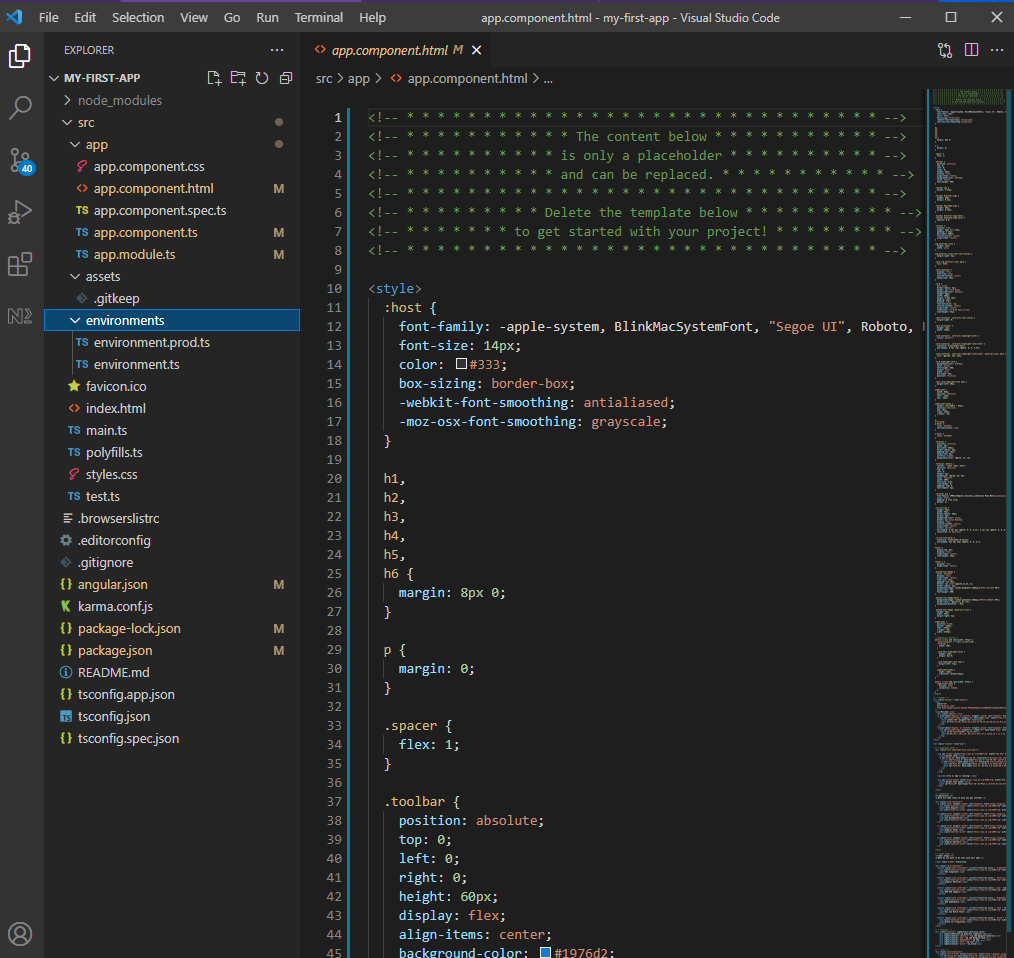
Type <http://localhost:4200/> in chrome and the following web page should appear (Angular is acting as the server)



**Chap 7 Editing the First App**

Install VSCode (or other IDE)

Open folder in VSCode. You will see a whole slew of files that angular created



Copy my-first-app folder to my-first-app-chap-7 and open with VSCode

Open a terminal window and build the node\_modules folder

|  |
| --- |
| npm install |

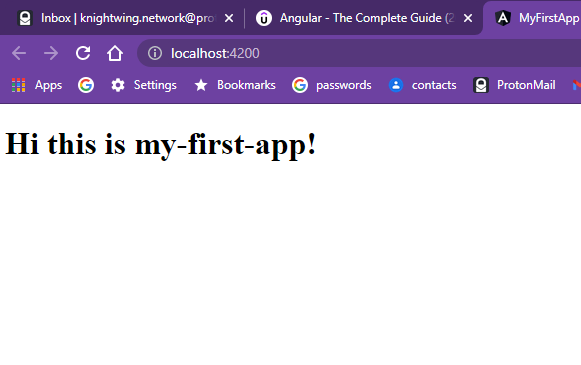
Edit the html file by deleting everything and writing below

|  |
| --- |
| <div >    <h1>Hi this is {{ title }}!</h1>  </div> |
|  |

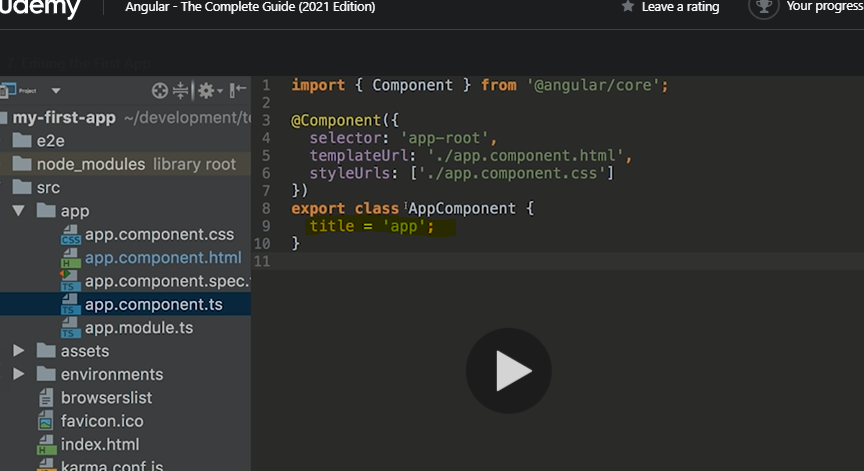
Now compile and runthe web server

|  |
| --- |
| ng serve |

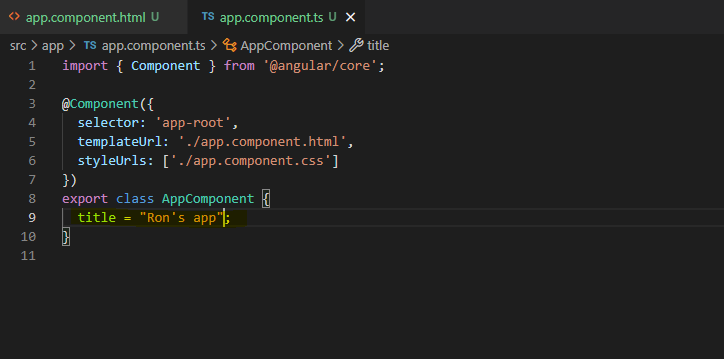
Type <http://localhost:4200/> in chrome



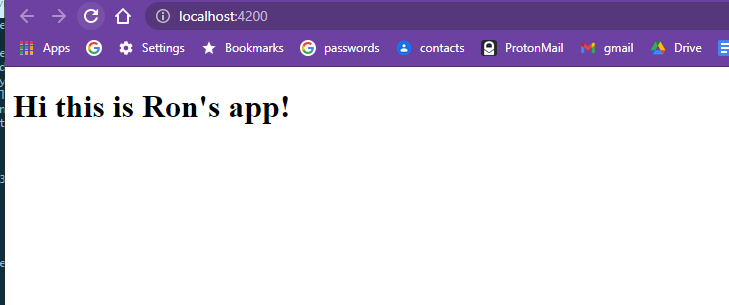
Variable title used in the html file above is set as shown below



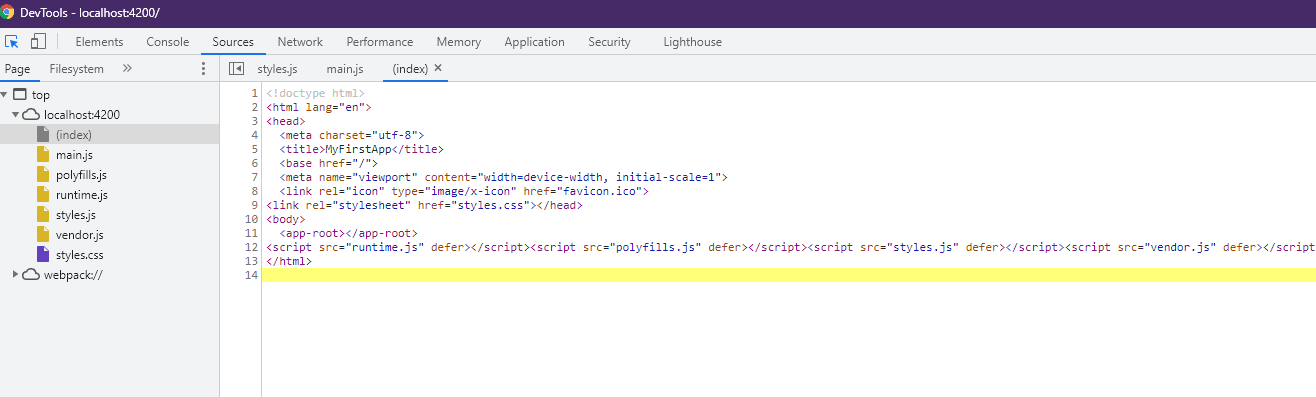
Change the title variable as shown below

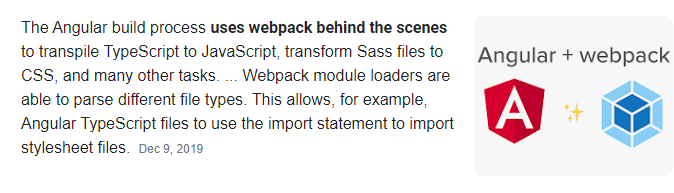


And the web page will automatically update

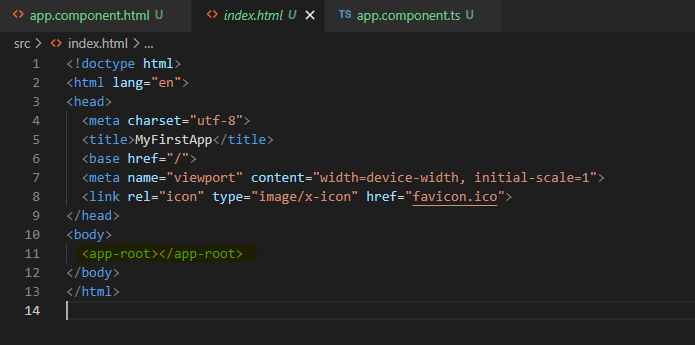


Hit F12 to see source code in browser. Notice that the index.html is just a bunch of scripts: angular creates code dynamically. Also notice webpack listed on the left. Angular uses wbepack!



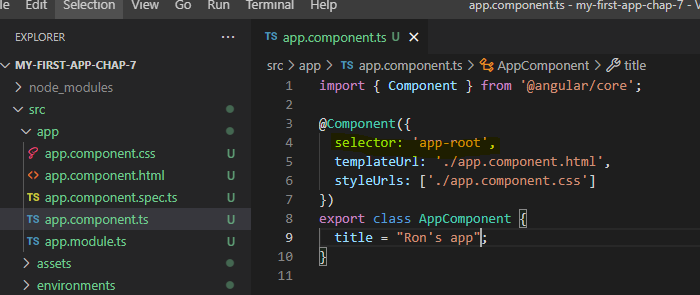


Also notice the use of custom html tag app-root

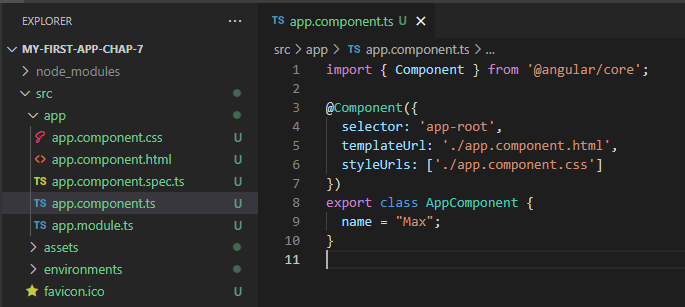




This is defiend inside the Angular component definition for app



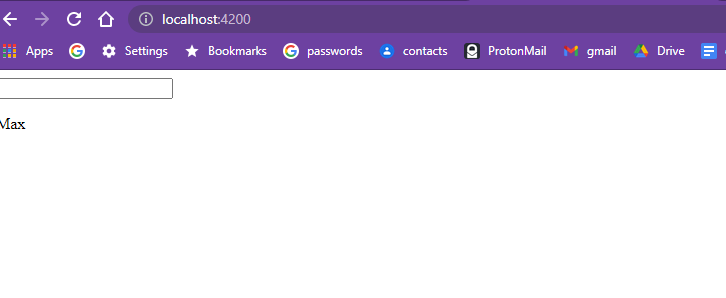
Now change the variable title to name and give it a new value shown below in the ts file



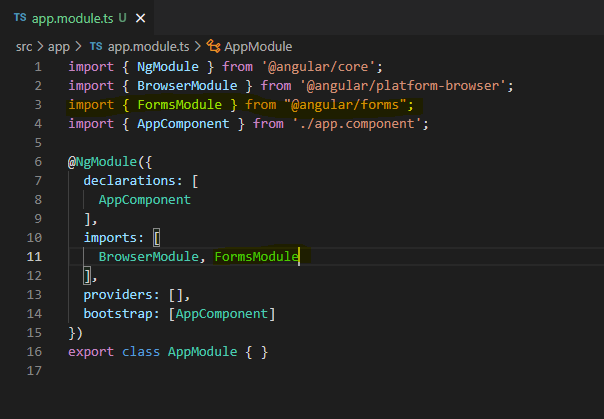
Now change the html file:

|  |
| --- |
| <input type="text">  <p>{{ name }}</p> |
|  |

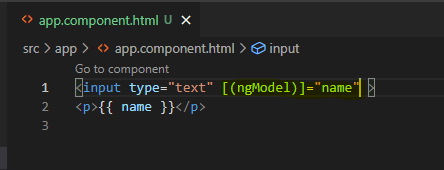
Result is



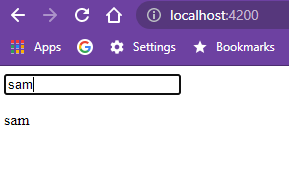
Now add FormsMoldule to src\app\app.module.ts



Now add [(ngModel)]=”name” to input which bind the input value to the variable name



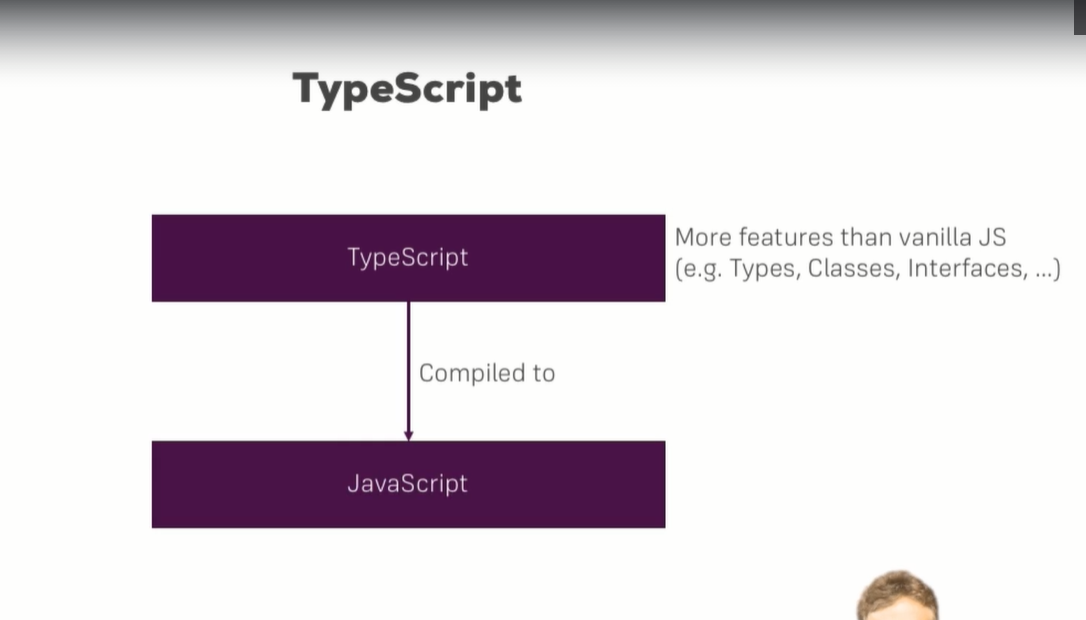
Reuslt is as follows and it automatically updates as you type!!



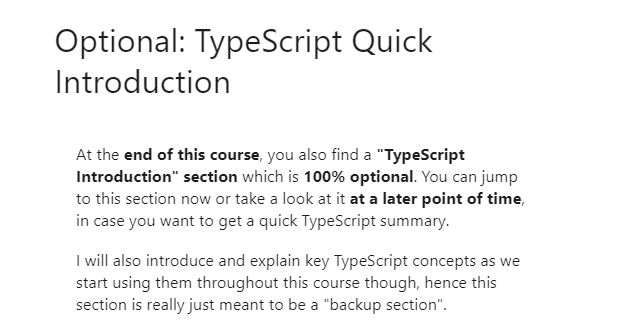
**Chap 8,9 no code**

**Chap 10 What is TypeScript?**

A super script of JavaScript and is compiled to JavaScript



**Chap 11 Optional TypeScript Intro as appendix**



**Chap 12 A Basic Project Using Bootstrap for Styling**

Copy project and open in vscode

|  |
| --- |
| npm install |

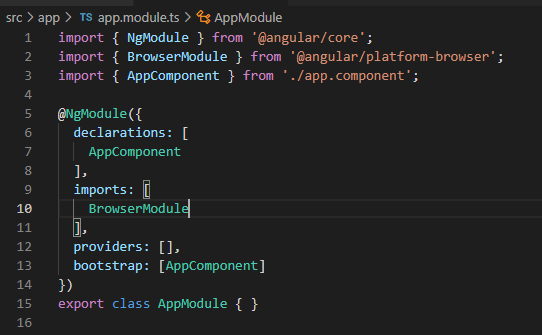
Now install bootstrap 3

npm install --save bootstrap@3

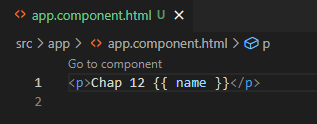
add bootstrap to the project json

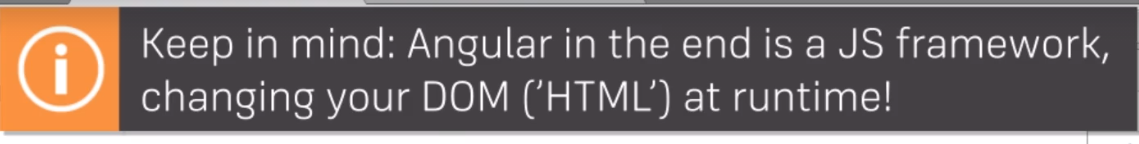
|  |
| --- |
| my-first-app\angular.json |
| {    "$schema": "./node\_modules/@angular/cli/lib/config/schema.json",    "version": 1,    "newProjectRoot": "projects",    "projects": {      "my-first-app": {        "projectType": "application",        "schematics": {},        "root": "",        "sourceRoot": "src",        "prefix": "app",        "architect": {          "build": {            "builder": "@angular-devkit/build-angular:browser",            "options": {              "outputPath": "dist/my-first-app",              "index": "src/index.html",              "main": "src/main.ts",              "polyfills": "src/polyfills.ts",              "tsConfig": "tsconfig.app.json",              "assets": [                "src/favicon.ico",                "src/assets"              ],              "styles": [                "node\_modules/bootstrap/dist/css/bootstrap.min.css",                "src/styles.css"              ],              "scripts": []            },            "configurations": {              "production": {                "budgets": [                  {                    "type": "initial",                    "maximumWarning": "2mb",                    "maximumError": "5mb"                  },                  {                    "type": "anyComponentStyle",                    "maximumWarning": "6kb",                    "maximumError": "10kb"                  }                ],                "fileReplacements": [                  {                    "replace": "src/environments/environment.ts",                    "with": "src/environments/environment.prod.ts"                  }                ],                "outputHashing": "all"              },              "development": {                "buildOptimizer": false,                "optimization": false,                "vendorChunk": true,                "extractLicenses": false,                "sourceMap": true,                "namedChunks": true              }            },            "defaultConfiguration": "production"          },          "serve": {            "builder": "@angular-devkit/build-angular:dev-server",            "configurations": {              "production": {                "browserTarget": "my-first-app:build:production"              },              "development": {                "browserTarget": "my-first-app:build:development"              }            },            "defaultConfiguration": "development"          },          "extract-i18n": {            "builder": "@angular-devkit/build-angular:extract-i18n",            "options": {              "browserTarget": "my-first-app:build"            }          },          "test": {            "builder": "@angular-devkit/build-angular:karma",            "options": {              "main": "src/test.ts",              "polyfills": "src/polyfills.ts",              "tsConfig": "tsconfig.spec.json",              "karmaConfig": "karma.conf.js",              "assets": [                "src/favicon.ico",                "src/assets"              ],              "styles": [                "src/styles.css"              ],              "scripts": []            }          }        }      }    },    "defaultProject": "my-first-app"  } |

Remove the FormsModule from app.module.ts

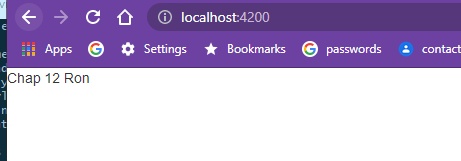


Change app.component.thtml file to

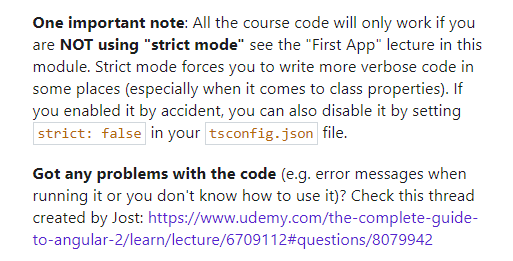




Run ng serve



**Chap 13 About Course Code**



<https://www.udemy.com/course/the-complete-guide-to-angular-2/learn/lecture/6655698#questions/8079942>

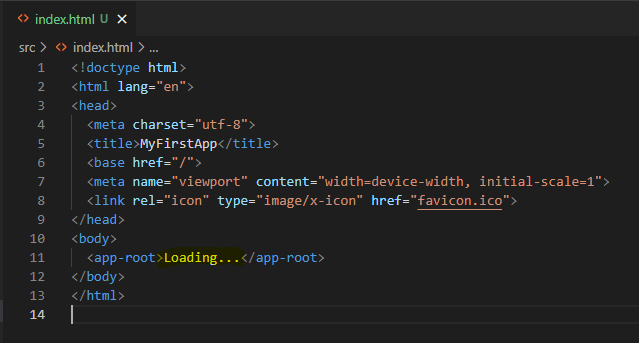
**Chap 14 Intro – no code**

**Chap 15 How an Angular App gets loaded and started**

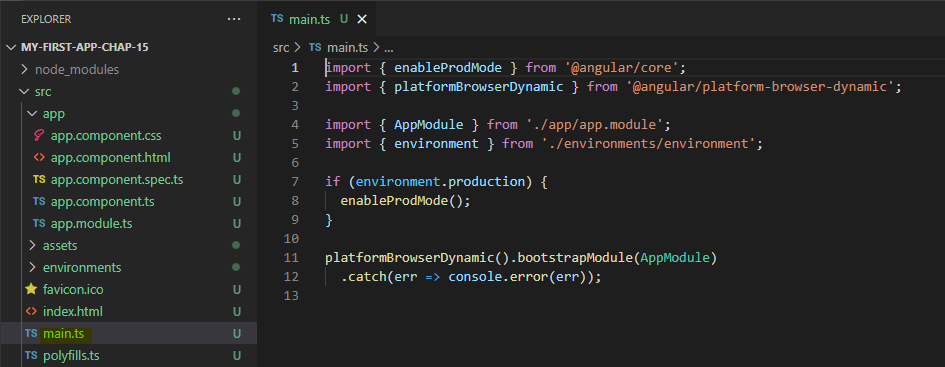
Copy project and open in vscode

|  |
| --- |
| npm install  ng serve |

Add Loading… to the index.html



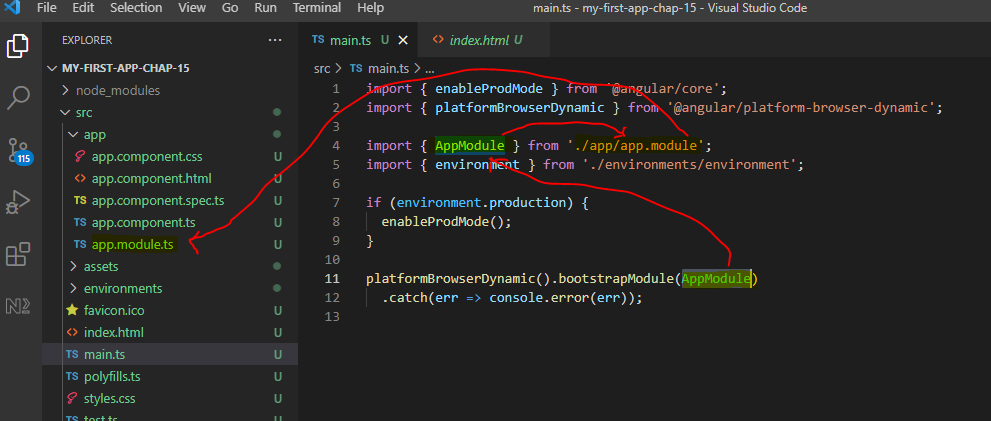
The first script executed is main.ts



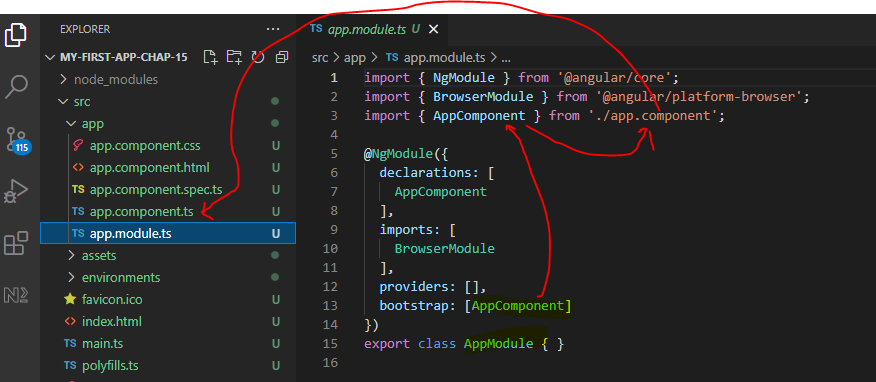
The line

platformBrowserDynamic().bootstrapModule(AppModule)

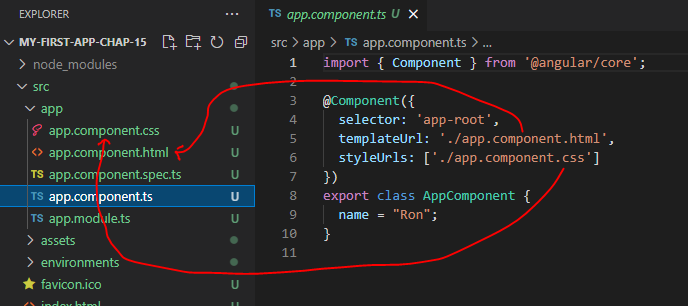
causes the module to be loaded



Inside app.module.ts the bootsrap array lists all the components used, in this case AppComponent



The app.component.ts file then calls out the html and css files of the component



**Chap 16 Components are important**

Angular is based upon components

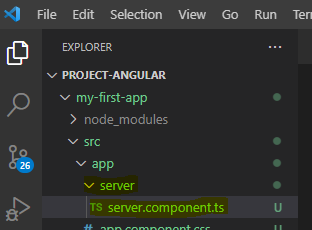
**Chap 17 Creating a component**

Copy project and open in vscode

|  |
| --- |
| npm install  ng serve |

Time to create a component named server

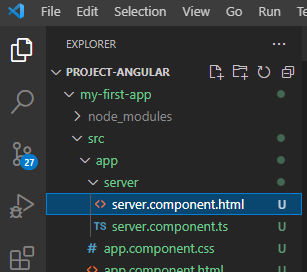
Add a folder and file as shown below, as a sub-folder of app



Enter file contents

|  |
| --- |
| src\app\server\server.component.ts |
| import { Component } from '@angular/core';  @Component({    selector: 'app-server',    templateUrl: './server.component.html',  })  export class ServerComponent {} |

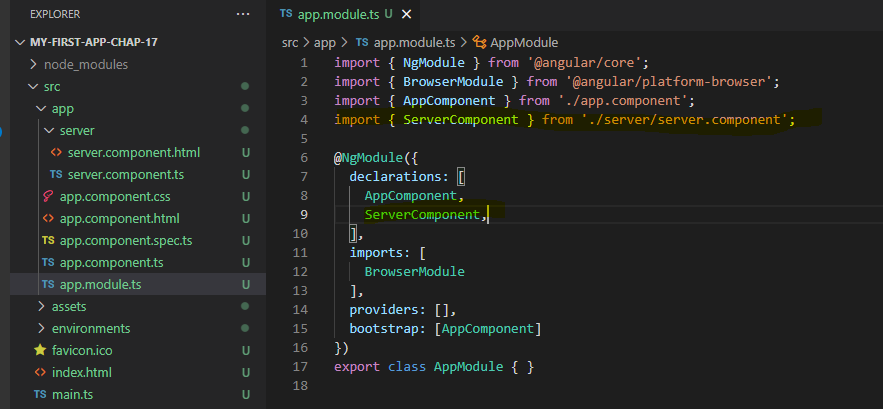
Create a blank file as shown below



**Chap 18 Understanding the role of AppModule and Component Declaration**

Continue with chap17 version of code

Now we need to declare our server compoinent in the app.module.ts



Complete through chap 18