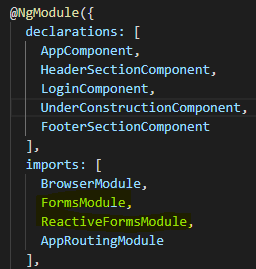
1. Adding form module

Before adding form validation you must register formsmodule and reactiveformsmodule to app.component.ts

import { FormsModule, ReactiveFormsModule } from '@angular/forms';



1. Adding css to angular 4

<https://loiane.com/2017/08/how-to-add-bootstrap-to-an-angular-cli-project/>

1. Port 4200 is already in use. Use '--port' to specify a different port

This is what I used to kill the progress on port 4200

sudo kill $(sudo lsof -t -i:4200)

You could also try this:

sudo kill `sudo lsof -t -i:4200`

For windows users:

Port number 4200 is already in use. Type below command in cmd:

netstat -a -n -o

And then, find port with port number 4200 by right click on terminal and click find, enter 4200 in "find what" and click "find next": Let say you found that port number 4200 is used by pid 18932. Type below command in cmd:

taskkill -f /pid 18932

1. Observable

<https://medium.com/@luukgruijs/understanding-creating-and-subscribing-to-observables-in-angular-426dbf0b04a3>

1. Subject

<https://medium.com/@luukgruijs/understanding-rxjs-subjects-339428a1815b>

1. Understanding rxjs BehaviorSubject, ReplaySubject and AsyncSubject

<https://medium.com/@luukgruijs/understanding-rxjs-behaviorsubject-replaysubject-and-asyncsubject-8cc061f1cfc0>

<https://javascript.tutorialhorizon.com/2017/03/23/rxjs-subject-vs-observable/>

1. Promise Example

<https://medium.com/@balramchavan/using-async-await-feature-in-angular-587dd56fdc77>

<https://fullstack-developer.academy/promises-in-javascript/>

|  |
| --- |
|  |
|  | |  | | --- | |  | | Declare var fetch: any; | |  | |
|  | export class PersonService { |
|  |  |
|  | async getPersonFullNameUsingAsync() { |
|  | let response = await fetch('./data/person.json'); |
|  | let person = await response.json(); |
|  | console.log(`${person.firstName} ${person.lastName}`); |
|  | } |
|  |  |
|  | async getPersonFullNameWithTryCatch() { |
|  | try { |
|  | let response = await fetch('./data/person2.json'); |
|  | let person = await response.json(); |
|  | console.log(`${person.firstName} ${person.lastName}`); |
|  | } |
|  | catch(e) { |
|  | console.log('there was an error'); |
|  | console.log(e); |
|  | } |
|  | } |
|  |  |
|  | getPersonFullNameUsingThen() { |
|  | return fetch('./data/person2.json') |
|  | .then((response: any) => { |
|  | return response.json(); |
|  | }) |
|  | .then((person: any) => { |
|  | console.log(`${person.firstName} ${person.lastName}`); |
|  | }) |
|  | .catch((e: any) => { |
|  | console.log('error') |
|  | }) |
|  | .then(() => { |
|  | console.log('finally'); |
|  | }) |
|  | } |
|  | } |

1. Importing Icons
2. **Glyphicons**

npm install --save glyphicons

## Include in your app

### require

var icons **=** require('glyphicons')

### import

import icons from 'glyphicons'

1. **Ngx-icons**

**https://www.npmjs.com/package/ngx-icons**

$ npm install --save  ngx-icons

**Import the module**

*//...*

**import** { FontAwesomeModule } **from** 'ngx-icons';

@NgModule({

*//...*

  imports: [

*//...*

    FontAwesomeModule

  ],

*//...*

})

**export** class AppModule { }

**If you're using**[Angular CLI](https://github.com/angular/angular-cli)**, add CSS to styles inside the .angular-cli.json**

"styles": [

    "styles.css",

    "../node\_modules/font-awesome/css/font-awesome.css"

],

1. Hosting angular app in iis

<https://blog.angularindepth.com/deploy-an-angular-application-to-iis-60a0897742e7>

1. the-term-ng-is-not-recognized-as-the-name-of-a-cmdlet

The first path in the path variable needs to be the NPM path. Opening the Node.js command prompt I found that the ng command worked there. I dug into the shortcut and found that it references a command to ensure the first Path variable is NPM. To Fix:

1. Right Clicked on My Computer (windows)
2. Selected Advanced System Settings
3. Clicked "Environment Variables"
4. Made the FIRST variable listed %AppData%\npm

Once I did that I was able to close powershell and reopen and all worked.

1. Validation in the angular app

<https://codecraft.tv/courses/angular/advanced-topics/basic-custom-validators/>

<https://dzone.com/articles/how-to-create-custom-validators-in-angular>

1. Directives

<https://www.bennadel.com/blog/3367-matching-multiple-selectors-on-the-same-element-creates-a-single-directive-instance-in-angular-5-0-0.htm>

<https://hackernoon.com/custom-directives-in-angular-6-building-a-google-places-autocomplete-4b418ee674ce>

<https://www.positronx.io/angular-7-directives-component-structural-attribute-directives/>

<https://appdividend.com/2018/09/17/angular-directive-example-tutorial/>

https://scotch.io/@ibrahimalsurkhi/match-password-validation-with-angular-2

<https://scotch.io/tutorials/how-to-implement-a-custom-validator-directive-confirm-password-in-angular-2>

<https://stackoverflow.com/questions/38582293/how-to-declare-a-variable-in-a-template-in-angular>

1. Integrating google place-map

<https://hackernoon.com/custom-directives-in-angular-6-building-a-google-places-autocomplete-4b418ee674ce>

1. For integrating we have to create google developer accountAfter that install

npm i --save-dev @types/googlemaps

1. Add script to index.htm

l**<script src="https://maps.googleapis.com/maps/api/js?key=YOUR\_API\_KEY&libraries=places" async defer></script>**

1. Created a file as **index.d.ts**
2. Added following definition as below

/// <reference path="../node\_modules/@types/googlemaps/index.d.ts" />

declare module 'googlemaps';

1. Referred inside directive as below

import {} from 'googlemaps';

1. Best approach
2. To create common shared module

Add the following items into (**component,pipe,directive**) **Declaration section** and **Export Section** of shared module .

1. Import Shared module into required Components .

<https://stackoverflow.com/questions/40413838/angular2-include-module-of-components-rather-than-all-components-separately>

1. Angular best practices

<https://medium.com/@spp020/44-quick-tips-to-fine-tune-angular-performance-9f5768f5d945>