# Angular Material – Owner\_Account

# Angular Material Installation

In this article, we are going to show you how to prepare our Angular project and how to install Angular Material in a few simple steps. But first thing first. Before we start with the Angular Material features, we need to create our project first.

So let’s dive right into it.

## Project Creation

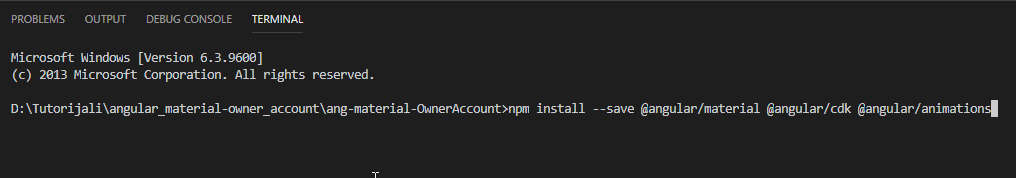
We are going to use Angular CLI through the entire project (and we strongly advise you to do the same), thus creating our project is no exception to that. So, let’s open the command prompt window and create our Angular project:

ng new ang-material-OwnerAccount

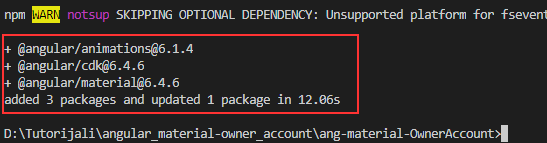
Once the installation is done, we are going to open the Visual Studio Code editor and open our project.

## Angular Material Installation

We are going to use npm to install required packages. Installing just Angular Material is not enough, we need to install CDK and Animations as well. So let’s do that first:



After installation finishes, we should see this result:



Now, we need to configure our animations, by importing BrowserAnimationsModule into the app.module.ts file:

import { BrowserModule } from '@angular/platform-browser';

import { NgModule } from '@angular/core';

import {BrowserAnimationsModule} from '@angular/platform-browser/animations';

import { AppComponent } from './app.component';

@NgModule({

declarations: [

AppComponent

],

imports: [

BrowserModule,

BrowserAnimationsModule

],

providers: [],

bootstrap: [AppComponent]

})

export class AppModule { }

To continue, let’s include the prebuild theme for Angular Material. The theme is required and we can choose one of the available pre-built themes:

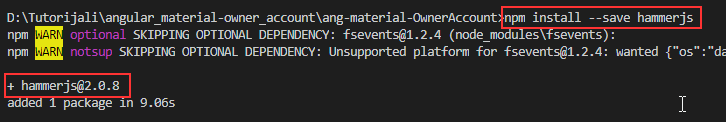
* deeppurple-amber.css
* indigo-pink.css
* pink-blugrey.css
* purple-green.css

To include a theme, we need to open the styles.css file and include the following line:

@import "~@angular/material/prebuilt-themes/indigo-pink.css";

The next step is to install the hammerjs library for the gesture support. In order to have a full feature of some components, we need to install it:

npm install --save hammerjs



After installation, we are going to import it as a first line in the maint.ts file:

import 'hammerjs';

And the last step is to add Material Icons if we want to. This is an optional step, but since we are going to use those icons, we are going to add them as well in the index.html file:

<!doctype html>

<html lang="en">

<head>

<meta charset="utf-8">

<title>AngMaterialOwnerAccount</title>

<base href="/">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="icon" type="image/x-icon" href="favicon.ico">

<link href="https://fonts.googleapis.com/icon?family=Material+Icons" rel="stylesheet">

</head>

<body>

<app-root></app-root>

</body>

</html>

## Creating Material Module

Even though we can import all the required components into the app.module.ts file, this is not recommended. A better solution is to create a separate module with all the required material imports, and then import that separate module into the app.module.ts file. That being said, it is time to do that:

ng g module material --spec false

This command will create a new folder material with the material.module.ts file inside. But this file is missing one thing and that’s the exports array. So, let’s add it:

import { NgModule } from '@angular/core';

import { CommonModule } from '@angular/common';

@NgModule({

imports: [

CommonModule

],

exports: [

],

declarations: []

})

export class MaterialModule { }

Finally, we need to import this MaterialModule int the app.module.ts file:

import { MaterialModule } from './material/material.module';

imports: [

BrowserModule,

BrowserAnimationsModule,

MaterialModule

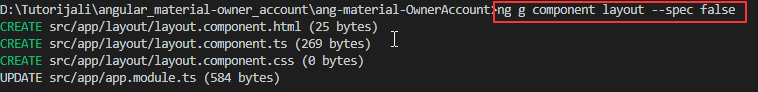
],

That is it. We have prepared everything we need to use the Material components, and without further ado, we are going to start using them.

## Creating the Layout Component

This component is going to be an entry point for our entire application, so let’s create it and import its selector inside the app.component.ts file:

ng g component layout --spec false

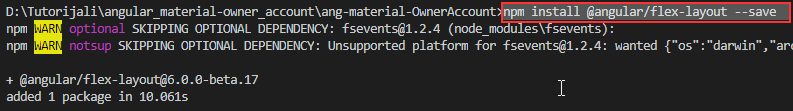


This command will create our component files and import it into the app.module.ts file.

### Angular Flax Layout

Before we modify the html component file, we need to install one more library @angular/flex-layout. We want our application to be responsive and for that purpose, we will use the mentioned library. So, let’s install it:

npm install @angular/flex-layout –save



And we need to register it inside the app.module.ts file:

import {FlexLayoutModule} from '@angular/flex-layout';

imports: [

BrowserModule,

BrowserAnimationsModule,

MaterialModule,

FlexLayoutModule

],

Now we can modify our layout.component.html file:

<div fxLayout="row wrap" fxLayoutAlign="center center" class="layout-wrapper">

<div fxFlex="80%" fxFlex.lt-md="100%" class="flex-wrapper">

<ng-content></ng-content>

</div>

</div>

As we can see, we use some angular/flex directives to create a responsive wrapper around our content. With the fxLayout element, we define the flow order of the child elements inside the container. The fxLayoutAlign will position children according to both main-axis and the cross-axis.

The fxFlex element resizes the child element to 80% of its parent, and if the screen goes below the medium than the child will take a 100% of its parent. If you want to read more about flex-layout, you can do that on this link: [Flex-Layout-Documentation.](https://github.com/angular/flex-layout/wiki/API-Documentation)

With the <ng-content> element, we are using angular content projection.

We have two more classes: layout-wrapper and flex-wrapper, so let’s implement them inside the layout.component.css file:

.layout-wrapper{

height: 100%;

}

.flex-wrapper{

height: 100%;

}

Excellent.

All we have to do is to remove all the content from the app.component.html file and introduce this component by using its selector:

<app-layout>

Application works.

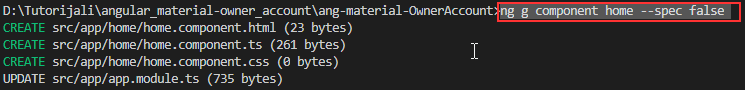
</app-layout>

We can start our application by typing ng serve and see that application truly works.

## Creating Home Component and Using Material Tabs

Let’s create the Home component file structure first:

ng g component home --spec false



Now, let’s modify the home.component.html file:

<section fxLayout="column wrap">

<div fxFlexAlign="center">

<p>Welcome to the Material Angular OwnerAccount Application</p>

</div>

<p>In this applicatoin we are going to work with:</p>

</section>

We need to modify the app.component.html file:

<app-layout>

<app-home></app-home>

</app-layout>

And we need to modify the home.component.css file:

section div p{

color: #3f51b5;

font-size: 30px;

text-shadow: 2px 3px 5px grey;

margin: 30px 0;

}

section div + p{

color: #3f51b5;

font-weight: bold;

font-size: 20px;

padding-bottom: 20px;

}

To use our first material component, the mat-tab component, we need to register it inside the material.module.ts file:

import { NgModule } from '@angular/core';

import { CommonModule } from '@angular/common';

import { MatTabsModule } from '@angular/material';

@NgModule({

imports: [

CommonModule,

MatTabsModule

],

exports: [

MatTabsModule

],

declarations: []

})

export class MaterialModule { }

And then to modify the home.component.html file:

<section fxLayout="column wrap">

<div fxFlexAlign="center">

<p>Welcome to the Material Angular OwnerAccount Application</p>

</div>

<p>In this application we are going to work with:</p>

<mat-tab-group>

<mat-tab label="Material Components">

<p>We are going to use different material components to create nice looking angular app.</p>

</mat-tab>

<mat-tab label="Consume .NET Core Web API">

<p>We will consume our .NET Core applicatoin. Basicaly, we will create complete CRUD client app.</p>

</mat-tab>

<mat-tab label="Fully responsive navigation menu">

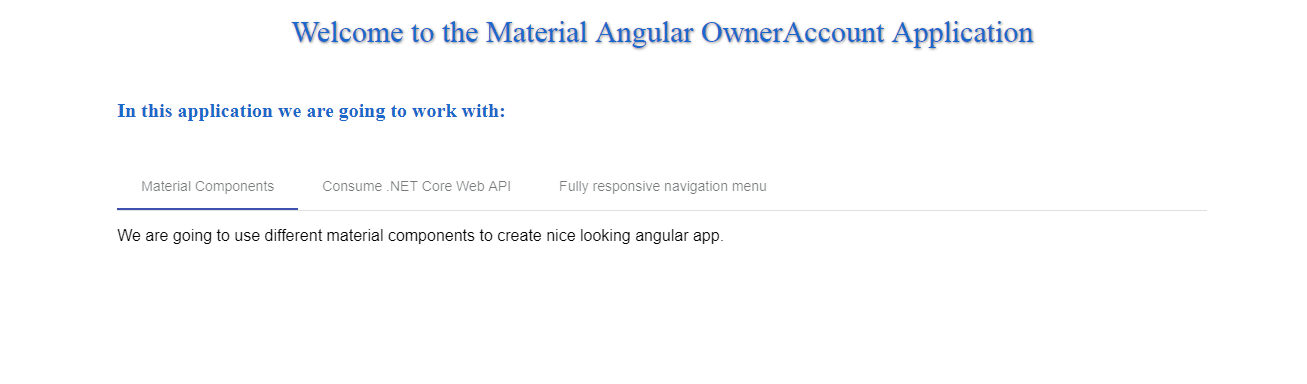
<p>By using material components, we are going to create fully responsive navigation menu, with its side-bar as well.</p>

</mat-tab>

</mat-tab-group>

</section>

Now, we can inspect our result:



## Additional Mat-Tab Features

First of all, let’s style our tab content a little more, to center our text inside every tab:

mat-tab-group {

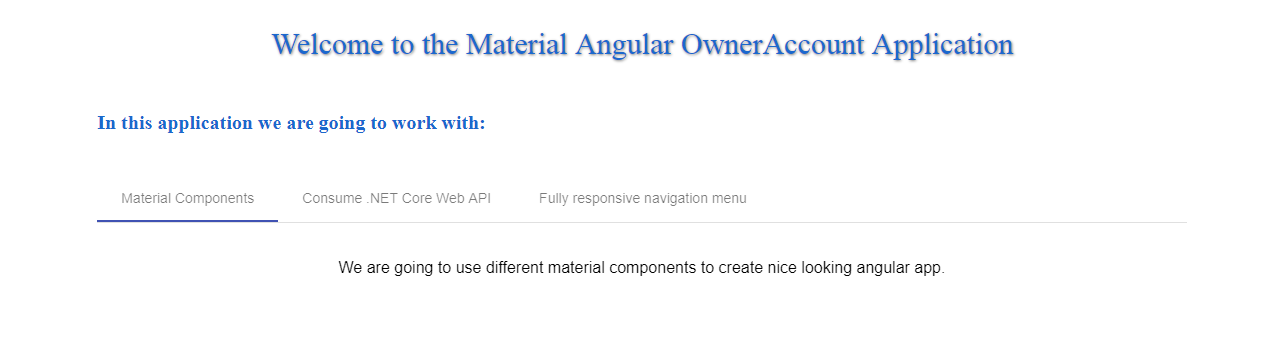
text-align: center;

}

mat-tab-group p {

padding-top: 20px;

}



This control has its own events. The selectedTabChange event is emmited when the active tab changes. The focusChange event is emitted when the user navigates through tabs with keyboard navigation.

So, let’s use the selectedTabChange event:

<mat-tab-group (selectedTabChange)="executeSelectedChange($event)">

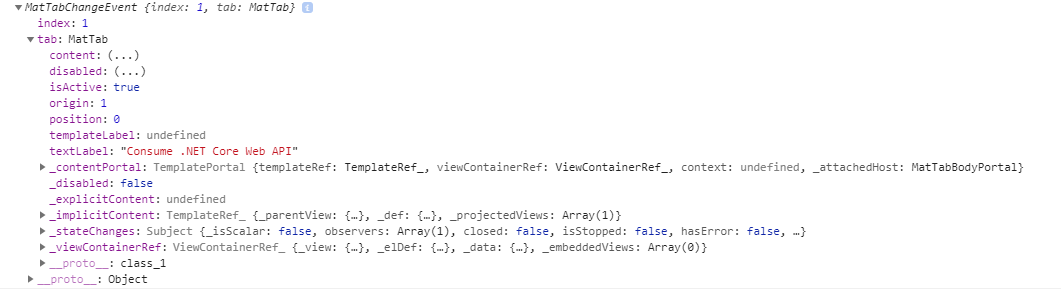
And we need to modify the home.component.ts file:

public executeSelectedChange = (event) => {

console.log(event);

}

Right now, as soon as we switch our tabs, we will see the event object logged into the console window:



## Conclusion

Everything looks great. We have our first material component and in the following articles, we will work with other material components as well.

In this article we have learned:

* How to prepare the Angular project,
* How to install Angular Material, CDK, and Animations
* The way to install and use the @angular/flex-layout library
* To work with the Tab Material component

In the next article, we are going to learn more about creating a navigation menu and menu side-bar with Angular routing.

# Angular Material Navigation Manu

Every application needs to have some sort of navigation, to enable users better navigation experience. Creating such a navigation menu will be our goal in this article. We have to use angular routing as well, and we are going to use it, but we won’t dive deep inside the routing concept. If you want to learn in more detail about angular routing, you can read this article [Angular Navigation And Routing](https://code-maze.com/net-core-web-development-part8/).

Because this series is all about angular material, this article won’t be an exception. We will mainly focus on creating a navigation menu by using different material components. Once we are done, we will have a fully responsive and functional navigation menu with the routing logic to support the complete process.

## Creating Routes

Let’s start with creating a new routing module:

ng g module routing --spec false --module app



Now, let’s modify the routing.module.ts file:

import { NgModule } from '@angular/core';

import { CommonModule } from '@angular/common';

import { Routes, RouterModule } from '@angular/router';

import { HomeComponent } from '../home/home.component';

const routes: Routes = [

{ path: 'home', component: HomeComponent},

{ path: '', redirectTo: '/home', pathMatch: 'full' }

];

@NgModule({

imports: [

CommonModule,

RouterModule.forRoot(routes)

],

exports: [

RouterModule

],

declarations: []

})

export class RoutingModule { }

Finally, let’s modify the app.compnent.html file to complete routing part for now:

<app-layout>

<main>

<router-outlet></router-outlet>

</main>

</app-layout>

We should be able to see our home component again, but this time it is served on /home route.

## Starting Navigation Development

Angular Material provides us with different components which we can use to create nicely styled, responsive and effective navigation in our app. But we need to start with something, aren’t we? So, let’s start with app.component.html modification by using the mat-sidenav-container component:

<app-layout>

<mat-sidenav-container>

<mat-sidenav #sidenav role="navigation">

<!--this is a place for us to add side-nav code-->

</mat-sidenav>

<mat-sidenav-content>

<!--in here all the content must reside. We will add a navigation header as well-->

<main>

<router-outlet></router-outlet>

</main>

</mat-sidenav-content>

</mat-sidenav-container>

</app-layout>

So, what we do is creating a container for our side navigation bar and specifying the part for our content. As we can see the <mat-sidenav> defines a place for a side navigation and the <mat-sidenav-content> defines a place for our content. We need to use the local reference #sidenav, and a little bit later, we will see why.

Of course, this won’t work. What we are missing is the module registration in the material.module.ts file:

import { MatTabsModule, MatSidenavModule } from '@angular/material';

@NgModule({

imports: [

CommonModule,

MatTabsModule,

MatSidenavModule

],

exports: [

MatTabsModule,

MatSidenavModule

],

Now, we should have a working application again with some grayish background. Let’s style this a bit in the app.component.css file:

mat-sidenav-container, mat-sidenav-content, mat-sidenav {

height: 100%;

}

mat-sidenav {

width: 250px;

}

main {

padding: 10px;

}

And let’s modify the styles.css file:

/\* for sidenav to take whole page \*/

html, body {

margin: 0;

height: 100%;

}

That is it. We have all prepared and it is time to start working on our navigation header component.

## Creating Navigation Header

To create a navigation header, we need to use the mat-toolbar element. But first thing first.

This component has its own module, so we need to register that module inside the material.module.ts file:

import { ..., MatToolbarModule } from '@angular/material';

imports: [

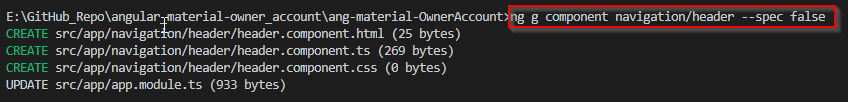
MatToolbarModule,

exports: [

MatToolbarModule,

After that, we are going to create a new header component:

ng g component navigation/header --spec false



Now it is time to include this component inside the app.component.html file, right above the <main> tag:

<mat-sidenav-content>

<app-header></app-header>

<main>

<router-outlet></router-outlet>

</main>

</mat-sidenav-content>

Then, let’s modify the header.component.html file:

<mat-toolbar color="primary">

<div fxHide.gt-xs>

<button mat-icon-button (click)="onToggleSidenav()">

<mat-icon>menu</mat-icon>

</button>

</div>

<div>

<a routerLink="/home">Owner-Account</a>

</div>

<div fxFlex fxLayout fxLayoutAlign="end" fxHide.xs>

<ul fxLayout fxLayoutGap="15px" class="navigation-items">

<li>

<a routerLink="/owner">Owner Actions</a>

</li>

<li>

<a routerLink="/account">Account Actions</a>

</li>

</ul>

</div>

</mat-toolbar>

Basically, we create our navigation with the menu icon (we still need to register its own module inside the material module), and the Owner-Account part that leads to the home component. As we can see, we use the fxHide.gt-xs directive, which states that this part should be hidden only on the screen that is greater than extra small.

We have another part of navigation which is positioned on the end of the navbar and hidden only for the extra small screen.

To continue, let’s register the MatIconModule and MatButtonModule inside the material module file:

import { ... MatIconModule, MatButtonModule } from '@angular/material';

imports: [

MatButtonModule,

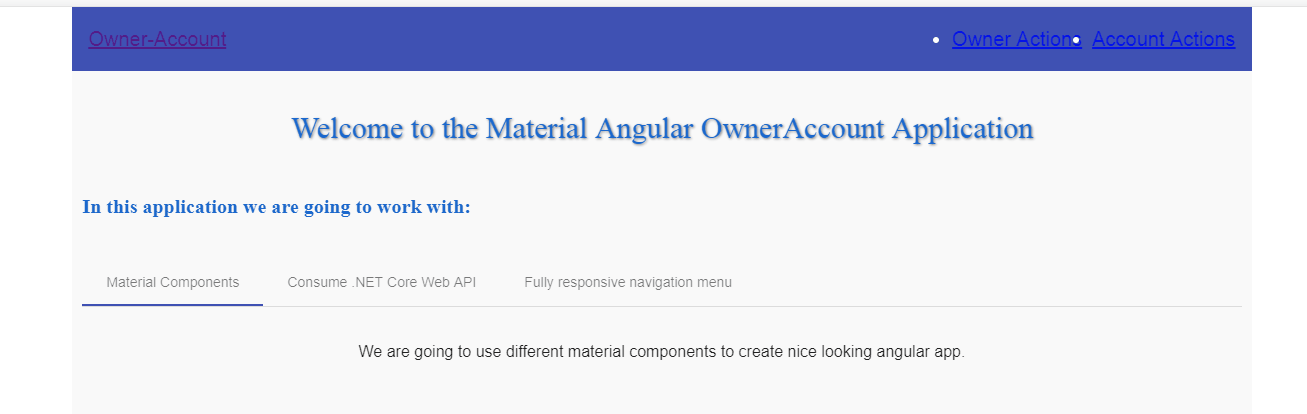
MatIconModule,

exports: [

MatButtonModule,

MatIconModule,

Right now, we have our menu that looks like this:



Looking beautiful right? :D :D Of course not, but we have our starting functionality in place and we are going to make it much nicer.

So, let’s continue and modify the header.component.css file:

a {

text-decoration: none;

color: white;

}

a:hover, a:active{

color: lightgray;

}

.navigation-items{

list-style-type: none;

padding: 0;

margin: 0;

}

mat-toolbar{

border-radius: 3px;

}

@media(max-width: 959px){

mat-toolbar{

border-radius: 0px;

}

}

Now if we look at our menu, it looks much nicer, isn’t it?



If we take a look at our icon button, we are going to see the onToggleSidenav()" event. We need to implement that inside the header.component.ts file:

import { Component, OnInit, Output, EventEmitter } from '@angular/core';

@Component({

selector: 'app-header',

templateUrl: './header.component.html',

styleUrls: ['./header.component.css']

})

export class HeaderComponent implements OnInit {

@Output() public sidenavToggle = new EventEmitter();

constructor() { }

ngOnInit() {

}

public onToggleSidenav = () => {

this.sidenavToggle.emit();

}

}

If you want to learn more about @Output directives, you can read [Angular Series Article About Decorators.](https://code-maze.com/net-core-web-development-part12/)

Finally, we have to react on this event emitter inside our app.component.html file:

<mat-sidenav-content>

<app-header (sidenavToggle)="sidenav.toggle()"></app-header>

<main>

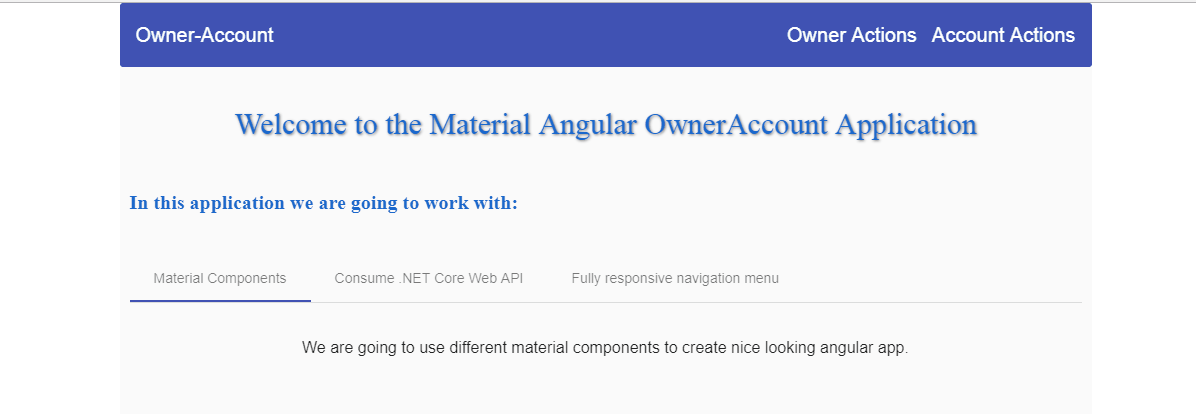
<router-outlet></router-outlet>

</main>

</mat-sidenav-content>

Now we see why we need the #sideNav local reference inside the mat-sidenav component.

Now let’s see how this looks like:



Excellent. Now its time for us to start working on the side-nav.

## Creating Side-Navigation

To create the side navigation items, we are going to use the mat-nav-list element that resides inside the MatListModule. So, let’s register this module first in the material.module.ts file:

import { … MatListModule } from '@angular/material';

imports: [

MatListModule,

exports: [

MatListModule,

Then let's create the sidenav-list component and modify the sidenav-list.component.html file:

ng g component navigation/sidenav-list -- spec false

<mat-nav-list>

<a mat-list-item routerLink="/home" (click)="onSidenavClose()">

<mat-icon>home</mat-icon> <span class="nav-caption">Home</span>

</a>

<a mat-list-item routerLink="/owner" (click)="onSidenavClose()">

<mat-icon>assignment\_ind</mat-icon> <span class="nav-caption">Owner Actions</span>

</a>

<a mat-list-item routerLink="#" (click)="onSidenavClose()">

<mat-icon>account\_balance</mat-icon><span class="nav-caption">Account Actions</span>

</a>

</mat-nav-list>

As we can see, we use the mat-nav-list as a container with all the anchor tags with mat-list-item attributes. We have the click event for every link, to close the side-nav once it's clicked, and we have an icon next to the link text.

Let’s continue by adding some styles to the sidenav-list.component.css file:

a {

text-decoration: none;

color: white;

}

a:hover, a:active{

color: lightgray;

}

.nav-caption{

display: inline-block;

padding-left: 6px;

}

And finally let’s modify the sidenav-list.component.ts file:

import { Component, OnInit, Output, EventEmitter } from '@angular/core';

@Component({

selector: 'app-sidenav-list',

templateUrl: './sidenav-list.component.html',

styleUrls: ['./sidenav-list.component.css']

})

export class SidenavListComponent implements OnInit {

@Output() sidenavClose = new EventEmitter();

constructor() { }

ngOnInit() {

}

public onSidenavClose = () => {

this.sidenavClose.emit();

}

}

That’s it. We can now open the app.component.html file and modify it to add the side-nav component:

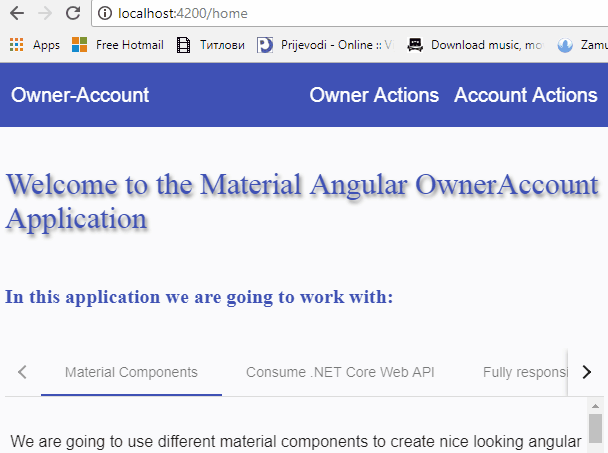
<mat-sidenav #sidenav role="navigation">

<app-sidenav-list (sidenavClose)="sidenav.close()"></app-sidenav-list>

</mat-sidenav>

In this code, we react on the event emitter form the sidenav-list component and close the side-nav by using #sidenav local reference.

Now, all we have to do is to take a look at our result:



## Multi-Menu in Side-Nav

There is one more thing we want to show you. For now, we only have a one clickable link per section, inside ou sidenav. But what if we want to have a menu item and when we click that menu item other options appear? Well, we are going to show you how to do that as well.

So, in the sidenav-list.component.html file, we need to add the following code below the last anchor tag:

<mat-list-item [matMenuTriggerFor]="menu">

<mat-icon>unfold\_more</mat-icon>

<a matline>Example</a>

</mat-list-item>

<mat-menu #menu="matMenu">

<button mat-menu-item (click)="onSidenavClose()">View profile</button>

<button mat-menu-item (click)="onSidenavClose()">Add contact</button>

</mat-menu>

For this to work, we need to register the MatMenuModule:

import { …, MatMenuModule } from '@angular/material';

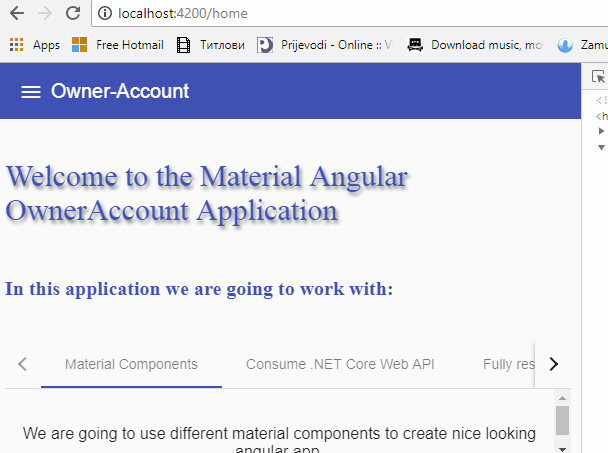
imports: [

MatMenuModule,

exports: [

MatMenuModule,

And the result:



## Conclusion

Awesome.

Now we have our own responsive navigation menu, built from scratch.

…

# Angular Material Table, Filter, Sort, Paging

We are going to divide this article into two major parts. First part will consist of creating environment files, HTTP repository service and creating new Owner module with lazy loading feature. As we can see, all of this is Angular specifics, so we won’t dive too deep into this sections. We already have our [Angular Series](https://code-maze.com/angular-series/) in which we talked about these topics in great detail. So if you are not familiar with these topics, we strongly recommend reading the mentioned series.

In our source code, we can find the folder OwnerAccountServer which contains entire .NET Core project, which we have created in [.NET Core Series](https://code-maze.com/net-core-series/). In the same folder, we can find the \_MySQL\_Init\_Script folder which contains initialize data for MySQL database. Just run that script in the MySQL database and you are ready to go.

The second part will consist of creating a material table and populating that table with data from our server. Furthermore, we are going to create the filter, sorting and paging functionalities for that data.

It’s time to start our job.

## Environment, HTTP and Owner Module

Let’s start with the environment files modification.

We are going to modify the environment.prod.ts file first:

export const environment = {

production: true,

urlAddress: 'http://www.ang-material-account-owner.com'

};

After that, let’s modify the environment.ts file:

export const environment = {

production: false,

urlAddress: 'http://localhost:5000'

};

Now let’s move to the service creation for sending the HTTP requests towards our server.

To do that, we are going to create a service file first:

ng g service shared/repository --spec false

After creation, we have to modify that file:

import { Injectable } from '@angular/core';

import { HttpClient, HttpHeaders } from '@angular/common/http';

import { environment } from './../../environments/environment';

@Injectable({

providedIn: 'root'

})

export class RepositoryService {

constructor(private http: HttpClient) { }

public getData(route: string) {

return this.http.get(this.createCompleteRoute(route, environment.urlAddress));

}

public create(route: string, body) {

return this.http.post(this.createCompleteRoute(route, environment.urlAddress), body, this.generateHeaders());

}

public update(route: string, body){

return this.http.put(this.createCompleteRoute(route, environment.urlAddress), body, this.generateHeaders());

}

public delete(route: string){

return this.http.delete(this.createCompleteRoute(route, environment.urlAddress));

}

private createCompleteRoute(route: string, envAddress: string) {

return `${envAddress}/${route}`;

}

private generateHeaders() {

return {

headers: new HttpHeaders({'Content-Type': 'application/json'})

}

}

}

Excellent. We have prepared our repository file. If you want to learn more about environment files, services, and HTTP, you can read it in the [Angular Series Article](https://code-maze.com/net-core-web-development-part9/) which covers all of these topics.

One more thing that we need to do is to register HttpClientModule in the app.module.ts file:

import { HttpClientModule } from '@angular/common/http';

imports: [

…

HttpClientModule

],

### Creating a New Owner Module

Let’s create a new Owner module, and the routes for that module as well:

ng g module owner --spec false

We are going to register this module into the main routing module but in such a way to support lazy loading:

const routes: Routes = [

{ path: 'home', component: HomeComponent},

{ path: 'owner', loadChildren: "./../owner/owner.module#OwnerModule" },

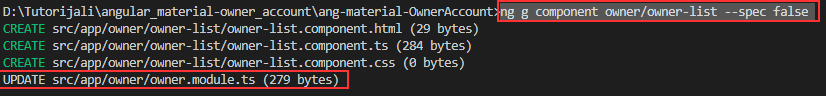
{ path: '', redirectTo: '/home', pathMatch: 'full' }

];

To read more about multiple modules in the angular project and lazy loading as well, visit [Lazy Loading in Angular](https://code-maze.com/net-core-web-development-part10/).

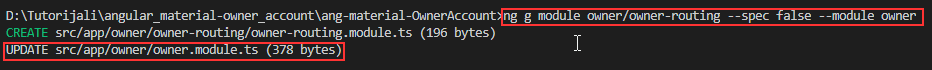
Right now, we have to create a new component to show the list of all the owners from the database:

ng g component owner/owner-list --spec false



We need to have a routing for the components inside this module, so let’s create a new routing module for the Owner module components:

ng g module owner/owner-routing --spec false --module owner



And let’s modfy that module file:

import { NgModule } from '@angular/core';

import { CommonModule } from '@angular/common';

import { Routes, RouterModule } from '@angular/router';

import { OwnerListComponent } from '../owner-list/owner-list.component';

const routes: Routes = [

{ path: 'owners', component: OwnerListComponent }

];

@NgModule({

imports: [

CommonModule,

RouterModule.forChild(routes)

],

exports: [

RouterModule

],

declarations: []

})

export class OwnerRoutingModule { }

Finally, to make all this to work, we need to modify our routes in the sidenav-list.component.html file:

<a mat-list-item routerLink="/owner/owners" (click)="onSidenavClose()">

<mat-icon>assignment\_ind</mat-icon> <span class="nav-caption">Owner Actions</span>

</a>

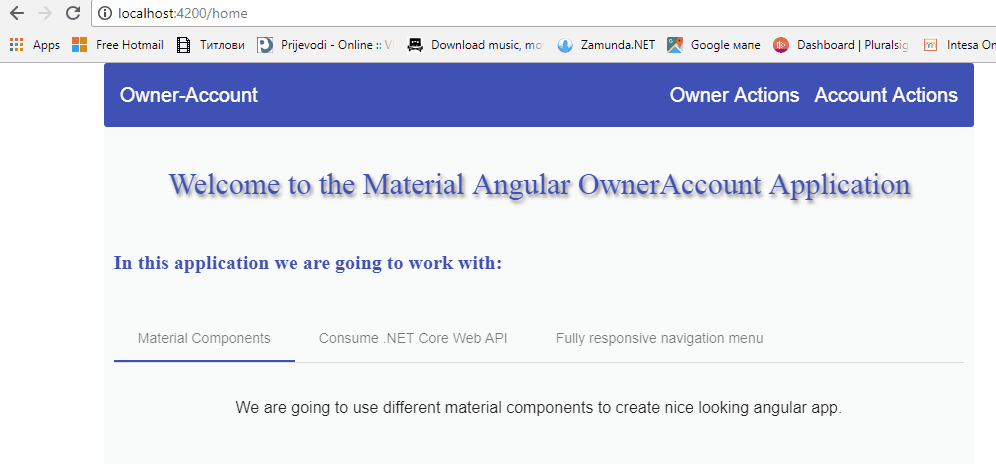
and the header.component.html file:

<li>

<a routerLink="/owner/owners">Owner Actions</a>

</li>

That is it. We can now check that all is good with our routing settings:



Excellent. Right now, we can dedicate our selves to fetching some data from the database and showing them inside the material table component.

## Using Material Table to Show Data

Because we have created another module in our Angular app, we need to import the Material module file inside the owner.module.ts file:

import { MaterialModule } from './../material/material.module';

imports: [

…

MaterialModule

],

When we create the Shared module, we will fix this code repetition (MaterialModule inside the App module and Owner module).

Let’s continue by creating the \_interface folder and inside it the owner.model.ts file:

export interface Owner{

id: string;

name: string;

dateOfBirth: Date;

address: string;

}

Because we want to use the material table component, we need to register its own module in the material.module.ts file:

import { …, MatTableModule } from '@angular/material';

imports: [

MatTableModule,

exports: [

MatTableModule,

Then, let’s modify the owner-list.material.component file:

<table mat-table [dataSource]="dataSource">

<ng-container matColumnDef="name">

<th mat-header-cell \*matHeaderCellDef> Name </th>

<td mat-cell \*matCellDef="let element"> {{element.name}} </td>

</ng-container>

<ng-container matColumnDef="date">

<th mat-header-cell \*matHeaderCellDef> Date of Birth </th>

<td mat-cell \*matCellDef="let element"> {{element.dateOfBirth | date}} </td>

</ng-container>

<ng-container matColumnDef="address">

<th mat-header-cell \*matHeaderCellDef> Address </th>

<td mat-cell \*matCellDef="let element"> {{element.address}} </td>

</ng-container>

<tr mat-header-row \*matHeaderRowDef="displayedColumns"></tr>

<tr mat-row \*matRowDef="let row; columns: displayedColumns;"></tr>

</table>

The mat-table element transforms this table to a material one. With the dataSource attribute, we provide a data source for our table that we want to show. Inside every ng-container tag, we define the column definition and the value to be displayed. Finally, in the last two tr tags, we define an order for our header columns and the row definitions. So, what we need to do right now is to create our datasource and displayedColumns properties in the ownerlist.component.ts file:

import { RepositoryService } from './../../shared/repository.service';

import { Component, OnInit } from '@angular/core';

import { MatTableDataSource } from '@angular/material';

import { Owner } from '../../\_interface/owner.model';

@Component({

selector: 'app-owner-list',

templateUrl: './owner-list.component.html',

styleUrls: ['./owner-list.component.css']

})

export class OwnerListComponent implements OnInit {

public displayedColumns = ['name', 'date', 'address'];

public dataSource = new MatTableDataSource<Owner>();

constructor(private repoService: RepositoryService) { }

ngOnInit() {

this.getAllOwners();

}

public getAllOwners = () => {

this.repoService.getData('api/owner')

.subscribe(res => {

this.dataSource.data = res as Owner[];

})

}

}

If we change the order of elements inside the displayedColumns array, it will change the order of the columns inside our table.

Right now, if we start our application and navigate to the Owner Actions menu, we are going to see a populated material table. But we are missing some styles, so let's add those in the owner-list.component.css file:

table {

width: 100%;

overflow-x: auto;

overflow-y: hidden;

min-width: 500px;

}

th.mat-header-cell {

text-align: left;

max-width: 300px;

}

Now we should have a better-styled table :

