Angular

Tahaluf Training Center 2021

شركة تحالف الإمارات للحلول التقنية ذ.م.م.
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Chapter 5

1. Shared Module
2. Working on home page
3. Input and output

Shared Module

To use module, pipes , services from different modules we will generate **a shared module** contains all modules ,services and pipes which is used from another modules

Example :

```
PS C:\Users\User\Desktop\angular\portalApp> ng g m shared
CREATE src/app/shared/shared.module.ts (192 bytes)
PS C:\Users\User\Desktop\angular\portalApp>
```

Shared Module

In shared module , import all module and declared all component or pipes you will used more than one module.

```
imports: [
  CommonModule,
  MatFormFieldModule,
  FormsModule,
  ReactiveFormsModule,
  MatInputModule,
  MatButtonModule,
  MatProgressSpinnerModule,
  NgxSpinnerModule
],
```

And you must export these module in export array :

```
exports : [
    MatFormFieldModule,
    FormsModule,
    ReactiveFormsModule,
    MatInputModule,
    MatButtonModule,
    MatProgressSpinnerModule,
    NgxSpinnerModule
  ]
```

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Working on home page

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- Before started , we will generate new module for the client called client module .
- The propose of this module is if the client entered to the website successfully (valid email and password in login page) he will go to home page .

Working on home page

- Generate new module called **client**.

```
PS C:\Users\User\Desktop\portalApp> ng g m client --routing
CREATE src/app/client/client-routing.module.ts (249 bytes)
CREATE src/app/client/client.module.ts (280 bytes)
PS C:\Users\User\Desktop\portalApp>
```

Working on home page

- Inside client module , will generate new component called home component

```
PS C:\Users\User\Desktop\portalApp> ng g c client/home
CREATE src/app/client/home/home.component.html (19 bytes)
CREATE src/app/client/home/home.component.spec.ts (612 bytes)
CREATE src/app/client/home/home.component.ts (267 bytes)
CREATE src/app/client/home/home.component.css (0 bytes)
UPDATE src/app/client/client.module.ts (356 bytes)
PS C:\Users\User\Desktop\portalApp>
```

Working on home page

Since the auth module is loaded in in app module , client module will loaded in .

In auth –routing.module.ts

```
 {
    path:'client',
    loadChildren : ()=> import('../client/client.
module')
    .then((m)=>m.ClientModule)
  }
```

Working on home page

- In client –routing.module.ts inside routes array add the default routes.

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

Working on home page

- If the user logged successfully the button submit will navigate it to the home page , so in **login.component .ts :**

```
submit(){
//Go to Loader
this.spinner.show();
setTimeout(() => {
    this.spinner.hide();
    //go to the home page
    this.router.navigate(['client'])
}, 2000)
}
```

Working on home page

- Now we will add the toolbar from angular material website .

- Add the import module in shared.module .ts :

```
import { MatToolbarModule } from
'@angular/material/toolbar';
```

Import the **MatToolbarModule** in import section :

In shared.module .ts :

```
imports: [
    CommonModule,
    ClientRoutingModule,
    MatToolbarModule
]
```

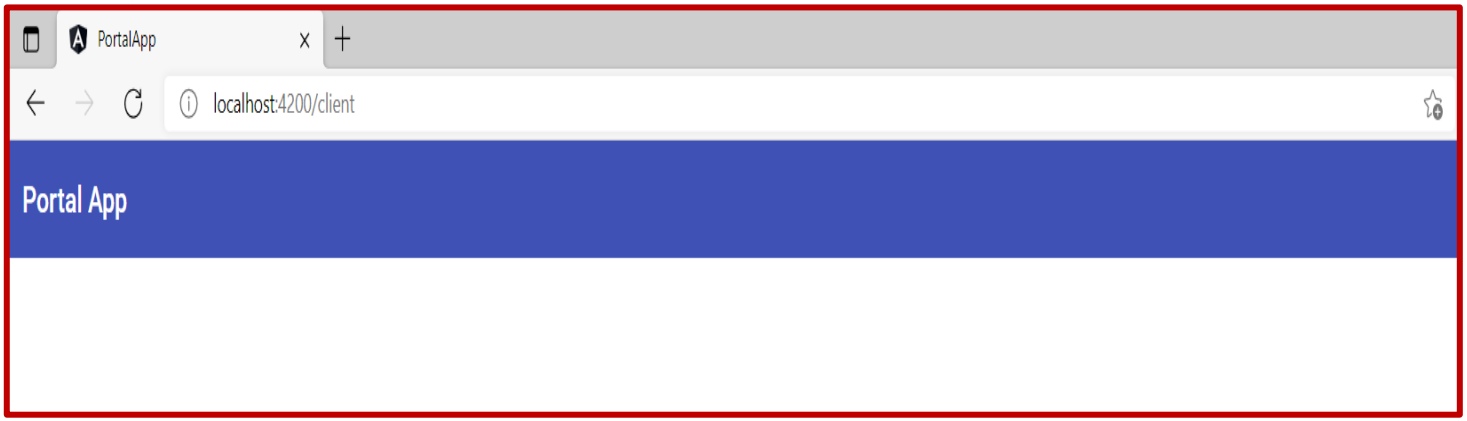
Working on home page

In Home.component.html :

```
<mat-toolbar color="primary">
<mat-toolbar-row>
<span>Portal App</span>
</mat-toolbar-row>
</mat-toolbar>
```

Working on home page

- The result will be :



Working on home page

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- We will go to add card in home page , before that we will define the **Reusable component** .
- **Reusable component : the component which is created for one time and use in more than one component**

Reusable component

- Generate a reusable component inside home component called PortalCard .

```
PS C:\Users\User\Desktop\angular\portalApp> ng g c client\home\PortalCard
CREATE src/app/client/home/portal-card/portal-card.component.html (26 bytes)
CREATE src/app/client/home/portal-card/portal-card.component.spec.ts (655 bytes)
CREATE src/app/client/home/portal-card/portal-card.component.ts (294 bytes)
CREATE src/app/client/home/portal-card/portal-card.component.css (0 bytes)
UPDATE src/app/client/client.module.ts (694 bytes)
PS C:\Users\User\Desktop\angular\portalApp>
```

Reusable component

- Inside PortalCard component will creates cards for our PoratlApp example so we will go to angular material and import the pakage of cards in **shared.module.ts :**

```
import { MatCardModule } from
'@angular/material/card';
```

- And import `MatCardModule` in import section .

- In PortalCard.component.html :

```
<mat-card class="example-card">
<mat-card-header>
<div mat-card-avatar class="example-header-
image"></div>
<mat-card-title>Front end </mat-card-title>
<mat-card-subtitle>HTML</mat-card-subtitle>
</mat-card-header>
<img mat-card-image
src="https://www.onlinecoursereport.com/wp-
content/uploads/2020/06/shutterstock_153031724-
1024x768.jpg" alt="Photo of a Shiba Inu">
```

Reusable component

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```
<mat-card-content>
<p>
The HyperText Markup Language, or HTML is the
standard markup language for documents designed to be
displayed in a web browser. It can be assisted by
technologies such as Cascading Style Sheets (CSS) and
scripting languages such as JavaScript..
</p>
</mat-card-content>
  <mat-card-actions>
    <button mat-button>LIKE</button>
      <button mat-button>SHARE</button>
    </mat-card-actions>
    </mat-card>
```

In PortalCode.component.css

```
.example-card  {
        max-width:  400px;

}
.example-header-image  {
background-
image:  url('https://www.onlinecoursereport.com/wp-
content/uploads/2020/06/shutterstock_153031724-
1024x768.jpg');
        background-size:  cover;

}
```

Reusable component

- Call PotalApp component in home component and repeat it eight times
  Add this code **in home .component .html**

```
<div class=container>
      <div class="cards">
          <app-portal-card></app-portal-card>
          <app-portal-card></app-portal-card>
          <app-portal-card></app-portal-card>
          <app-portal-card></app-portal-card>
          <app-portal-card></app-portal-card>
          <app-portal-card></app-portal-card>
          <app-portal-card></app-portal-card>
          <app-portal-card></app-portal-card>
      </div>
  </div>
```

home .component .css

```
.container {
    width: 98%;
    margin: 0 auto;
    margin-top: 40px;
}

.cards {
    display: flex;
    flex-direction: row;
    justify-content: space-evenly;
    flex-wrap: wrap;
}
```

Input and output

- Change the title , sub title and paragraph for each card .

- So, we will sent a permitter from home page component to portalCard components .

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- Change the home page component to :

```
 <app-portal-card typeLang="Front End"
subText="HTML" description="The HyperText Markup
Language, or HTML is the standard markup language
for documents designed to be displayed in a web
browser. It can be assisted by technologies such as
Cascading Style Sheets (CSS) and scripting languages
such as JavaScript.. "></app-portal-card>
```

- To call typeLang , subTest and description in PortalCard component .

- Define this variable in typescript file In PortalCard.ts inside class :

```
@Input()typeLang:string | undefined;
@Input()subText:string | undefined;
@Input()description :string|undefined;
@Input()photo: string | undefined
```

In PortalCard.component.html

```
<mat-card-header>
<div mat-card-avatar class="example-header-
image"></div>
<mat-card-title>{{typeLang}} </mat-card-title>
<mat-card-subtitle>{{subText}}</mat-card-
subtitle></mat-card-header>
<img mat-card-image
src="https://www.onlinecoursereport.com/wp-
content/uploads/2020/06/shutterstock_153031724
-1024x768.jpg" alt="Photo of a Shiba Inu">
<mat-card-content>
<p> {{description}}</p>
 </mat-card-content>
```

OR you can use array to do this , so in home.component .ts

```
export class HomeComponent implements OnInit {
    data: any[] = [{
    typeLang: 'Front End',
    subText: 'HTML’,
    description: 'The HyperText Markup Language, or
HTML is the standard markup language for documents
designed to be displayed in a web browser. It can be
assisted by technologies such as Cascading Style
Sheets (CSS) and scripting languages such as
JavaScript.. '
    },
```

Input and output


```
{
   typeLang: "Back End",
   subText: "C#",
    description: " C# (pronounced see
sharp)[b] is a general-purpose, multi-
paradigm programming language encompassing
static typing, strong typing, lexically
scoped, imperative, declarative, functional,
generic, object-oriented (class-based), and
component-oriented programming
disciplines.[15]"
    }

    ]
```

Input and output

In home.component .html

```
<div class=container>
<div class="cards">
<app-portal-card
[typeLang]="data[0].typeLang"
[subText]="data[0].subText"
description="data[0].description"></app-
portal-card>
<app-portal-card
[typeLang]="data[1].typeLang"
[subText]="data[1].subText"
description="data[1].description"></app-
portal-card>
```

- Update home component and use less code using for loop in html
- Syntax :

<*ngFor=“let variable of array-name”>

In home.component.html

```
<div class =container>
<div class ="cards">
<app-portal-card *ngFor ="let card of data"
[typeLang]="card.typeLang"  [subText]="card
.subText"  description="card.description">
</app-portal-card>
</div>
</div>
```

Write Event

If the user click to the Language will navigate to the profile for this language .

Exercise

Generate new component in client module called profile and give it a route

Solution

```
PS C:\Users\User\Desktop\angular\portalApp> ng g c client\profile
CREATE src/app/client/profile/profile.component.html (22 bytes)
CREATE src/app/client/profile/profile.component.spec.ts (633 bytes)
CREATE src/app/client/profile/profile.component.ts (279 bytes)
CREATE src/app/client/profile/profile.component.css (0 bytes)
UPDATE src/app/client/client.module.ts (780 bytes)
PS C:\Users\User\Desktop\angular\portalApp>
```

Solution

In client-routting.module.ts

```
const routes: Routes = [
    {
        path: '',
        component: HomeComponent
    },
    {
        path: 'profile',
        component:ProfileComponent
    }
];
```

In home .component.ts

```
goToprofile(){

this.router.navigate(['profile'])
}
```

Update home component

```
<div class=container>
  <div class="cards">
<app-portal-card *ngFor="let card of data"
[typeLang]=“card.typeLang"
[subText]=“card.subText"
description=“card.description"
(openProfile)=" goToprofile()"></app-
portal-card>

    </div>
</div>
```

In portalCards.component.ts add in the class

```
@Output()openProfile=new EventEmitter();
```

And add this function to call openprofile method

```
showCoursePorfile(){
    //call openProfile method();
    this.openProfile.emit();
}
```