



Angular

Tahaluf Training Center 2021













Services

Angular services is intended to exemplify business rationale and information with various components of Angular.





In order to Create services:

In terminal:

ng generate services Folder_name/Service_name

or

ng g s folder_name/service_name





Generate new services called home

```
PS <u>C:\Users\User\Desktop\angular\portalApp</u>> ng g s services/home 
CREATE src/app/services/home.service.spec.ts (347 bytes)
CREATE src/app/services/home.service.ts (133 bytes)
PS C:\Users\User\Desktop\angular\portalApp>
```





Example

In the home service define a string and read it in home component .

In home.service.ts

```
export class HomeService {
    message: string = "This is from home service"
    constructor() {
    }
}
```





> To read this services from home component.

First: define an object of services in **home.component.ts** as a parameter of the constructor

In home.component.ts

```
constructor(private router: Router,
public homeServices : HomeService) { }
```





Then in home .component.html





Exercise:

Read the home service from login component and if the user logged successfully ,update the message to "You are logged In"





Solution:

In login.component.ts define an object of the services

```
constructor(private spinner: NgxSpinnerService,
private router: Router,
    public homeservices: HomeService)
{
}
```

In login.component.html

```
<h2>{{homeservices.message}}</h2>
```





Solution:

In login.component.ts in submit function:

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





Now, we will define an array in home services called selectedCourse, and if the user enter for the type of this course, will navigate to profile page and load the data for this course.

In the homeServices.ts:

```
selctorCours :any ={};
```







In Portal-card.ts:

```
showCoursePorfile(){
    this.homeservice.selctorCours = {
        typeLang: this.typeLang,
        description: this.description,
        subtitle: this.subText
    }

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





In profile.component.ts: define the home services .

```
constructor(public homeServices: HomeService) { }
```

In profile.component.html:





- The goal of creating the service is to reduce the writing of code and arrange it so that we reach the best practices.
- > So all the logic must be written inside the service.





- The logic in home component is the array so, remove the array from home component and rewrite it in home services.
- Update the home.component.html

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





- ➤ The logic of the login component, create a new services called auth.
- Remove the submit body from login.ts and rewrite it in auth services.

Nots: You can defined services or package inside another services like NgSpinnerServices and Route package.





In auth services.ts:

```
constructor(private spinner: NgxSpinnerService,
    private router: Router,
    private homeservices: HomeService) { }
login(email: any, password: any){
    console.log(email, password)
    //Go to Loader
    this.spinner.show();
    setTimeout(() => {
        this.spinner.hide();
        this.homeservices.message = "You are logged In"
        //go to the home page
        this.router.navigate(['client']) }, 2000)
```





In login.component.ts:

```
submit(){
this.authServices.login(this.emailFormControl,
this.passwordFormControl)
}
```











- Pipes are a feature in Angular. They are a simple way to transform values in an Angular template (In html tags).
- There are some built in pipes like date using | date, uppercase using | uppercase and lowercase using | lowercase.





Built in Pipes in angular:

- 1. date which return formatted date.
- 2. uppercase which return upper case formatted.
- 3. lowercase which return lowercase formatted
- **4. percent** which convert a value to a percentage





Example for using date pipes:

```
In homeServices.ts:
```

```
typeLang: 'HTML',
subText: new Date(),},
```

In Portal-card.component.html:

```
<mat-card-subtitle>{{subText | date}}</mat-card-
subtitle>
```





Example for using uppercase pipes:

```
In homeServices.ts:
```

```
{
    typeLang: 'HTML',
    subText:' html',},
```

In Portal-card.component.html:

```
<mat-card-subtitle>{{subText | uppercase}}</mat-card-
subtitle>
```





Example for using percent pipes:

```
In homeServices.ts:
```

```
{
typeLang: 'HTML',
subText: <mark>55</mark>,},
```

In Portal-card.component.html :

```
<mat-card-subtitle>{{subText | percent}}</mat-card-
subtitle>
```





- Since there are built in pipes , you can also make a custom pipe.
- > The syntax to generate new pipes is:

ng g p folder_name/pipe_name





Generate a new pipeline called dateFormate inside a Pipes folder

```
PS C:\Users\User\Desktop\angular\portalApp> ng g p Pipes/dateFormat CREATE src/app/Pipes/date-format.pipe.spec.ts (204 bytes)

CREATE src/app/Pipes/date-format.pipe.ts (225 bytes)

UPDATE src/app/app.module.ts (832 bytes)

PS C:\Users\User\Desktop\angular\portalApp>
```





To use the pipe and module from different modules we will generate a shared module contains all modules and pipes which is used from another modules

```
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> [
```





Inside dateFormat pipe:

```
transform(value: string, ...args: unknown[]): unknown {
    const date=new Date(value);
    //day/month/year

const formattedDate=`${date.getDate()}/$
{date.getMonth()+1}/$ {date .getFullYear}`;
return formattedDate;
}
```







```
In home services
    typeLang: 'HTML',
    subText: new Date(),},
And in portalCard.component.html:
<mat-card-subtitle > {
    subText | dateFormat
</mat-card-subtitle >
```

