Angular: WDay4

- -? Component interaction
- -? Validation (Reactive Form Modules)
- -? Routing (SPA)

Steps to install bootstrap:

- 1. npm i bootstrap
- 2. Use bootstrap by adding relative path for bootstrap.css in styles.css as import Or angular.json in styles "Path Must Start by node_Module"
- 3. Close Run and Run again

Note -?

If you don't need style and test files while creating component use this command

```
ng g c name -- skip-tests - -inline - style
```

Another way to send data from child to parent Old way: 2 way binding Bind from html like this by [(ngModel)]

```
<input [(ngModel)]="name"
type="text" class=</pre>
```

New way: by using reference

```
<input #name type="text" class="form-control</pre>
```

Then send 2 references to add function

```
(click)="Add(name.value, age.value)">
```

```
Add(name:string, age:string){
let newStudent= {name:name, age};
this.myEvent.emit(newStudent);
}
```

Ecma script syntax

```
Add(name:string, age:string){
  let newStudent= {name, age};
  this.myEvent.emit(newStudent);
}
```

Angular Component lifecycle "gaya mn el core "

- 1. constructor
- 2. ngOnchanges→ know any change apply on property with type input "executed awel ma el component t3mel reload "
- 3. ngOnInit—> draw the view of the component and fetch API
- ngOnDestroy→reload another component or change it by another one Usefulle while close the connection with database or memorization

ngOnChanges →take parameter from type changes: SimpleChange This object has contains from 3 things

- 1. Current value (at first ==undefined)
- 2. First Change (at first ==true until do change)
- 3. Previous value

Note:

Talama ana m3arfa student ezan m5 nafe3 m3aha el dot notation \rightarrow use subscript notation

```
// this.allStudents.push(this.student);
if(changes["student"].currentValue){
```

Validation [Reactive Forms Module]

Need to connect between html and typescript to apply form validation by Reactive forms module

1. Form group (create instance -> new form group take object)//all properties that you need

```
formValidation=new FormGroup({})
```

2. Add to object all properties

```
formValidation=new FormGroup({
    name:new

FormControl("Rehab",[Validators.required,Validators.minLength(3)]
),
    age:new

FormControl(22,[Validators.required,Validators.min(20),Validators
.max(40)]),
    email:new

FormControl("test@gmail.com",[Validators.required,Validators.email])
    })
```

Add it in appmodule.ts in imports part

4. Connect each input in the form by property in ts

```
<input formControlName="name" type="text" class="form-control"
id="name" placeholder="Enter your name">
```

Note form validation object contains

- Controls (contains all controls in the form and each one also contains error, status, value...)
- Errors
- Status (VALID or INVALID)
- Value (object contain all inputs in the form)
- Valid (true or false)

Routing (single Page Application)

- Need external module called [Router Module]//add it in appmodule.ts in imports part
- Configuration(m3 kol path → reload its component)

In app.component.html which component need to display ??
 By <router-outlet></router-outlet>//display based on pathUrl

Ι

	1st Load	run Time
MPA	☆	
SPA		☆