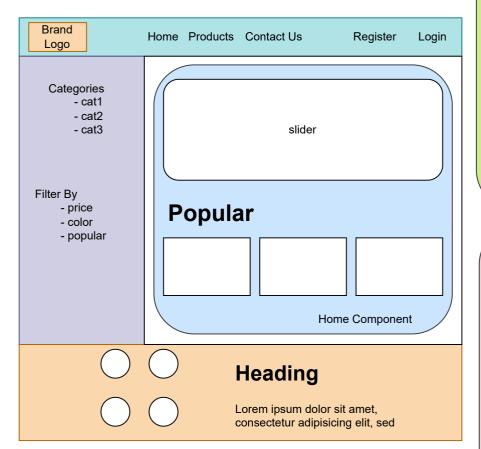
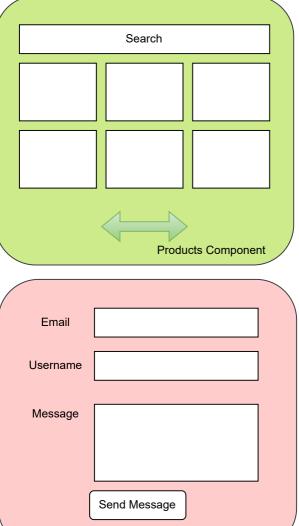
Angular

Day 1

Framework Open Source Component Based Application Single Page Application (Routing)



Library (React)



Contact Us Component

Cmd Commands

install angular: npm i -g @angular/cli check angular version: ng version

install node modules from package.json: npm i

run application:

ng server [-o] npm start

install bootstrap: npm i bootstrap

create new component : ng g c componentName --skip-tests

Angular Files

node modules (Folder):

contains all Modules (libraries)

package.json:

package-lock.json:
.gitignore:
read me file:
tsconfig. (3 files):
angular.json:
src (Folder):

Contains all Modules (libraries)
containe all modules Names with versions
modules dependencies names
tells what will not be used in version control
contains repo description for version control
typescript configuration files
Configuration for angular project
src (Folder):

Contains project files

Angular Component

ComponentName.component.html

ComponentName.component.css

ComponentName.component.ts

Template (Component Content)

Style

Logic (Behavior)

Create Component:

Way 1 (manually):

src > app > components > FolderWithComponentName

create component file (html,css,ts)

inside ts file create class

add decorator (selector, template, style)

inside app.module

=> in declarations add my component

way 2 (with angular cli):

ng g c ComponentName --skip-tests

Angular Component Communication

Binding

(one way binding)

.ts => .html

- interpolation binding {{ variableName}}
- property binding [src]="variableName"

.html => .ts

(two way binding) both (bidirection)

Install bootstrap: npm i bootstrap in angular.json: add in build (styles and scripts)

VS Code Extensions:

Auto Import Angular Language Service

Lab

Create following components

- navbar
- aside
- footer
- slider => read images from ts
- prodcus
- product card

index.html

<app-root></app-root>

app.component

```
@Component({
   selector: 'app-root',
   templateUrl: './app.component.html',
   styleUrls: ['./app.component.css']
})
export class AppComponent {
   title = 'Lec-Demo';
}
```

nav bar component

<app-navbar />

products component

<app-products/>

footer component

<app-footer/>

main.ts

```
platformBrowserDynamic()
.bootstrapModule(AppModule)
.catch(err =>
console.error(err));
```

app.module.ts

Day 2

Angular Component Communication

Binding

(one way binding)

.ts => .html
- interpolation binding {{ variableName}}
- property binding [src]="variableName"

.html => .ts
- event binding

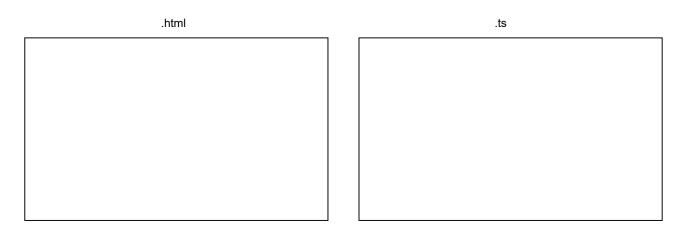
(two way binding)

both (bidirection) .html => .ts => .html

=> Normal way
 (event binding) + (interpolation or property binding)

=> FormsModule
 - add formsModule in app module

Event Binding



Directives

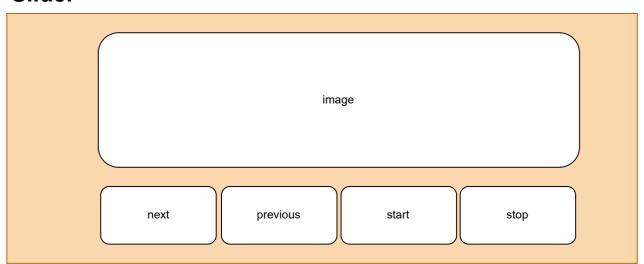
Component Directive

Structural Directive

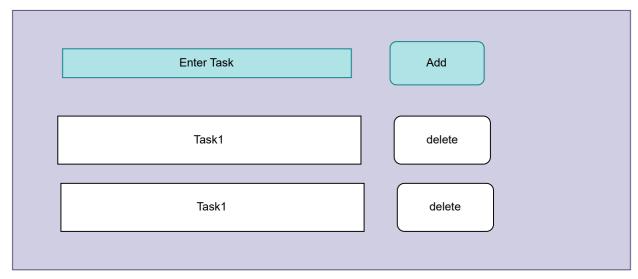
Attribute Directive

[ngclass] [ngstyle]

Slider



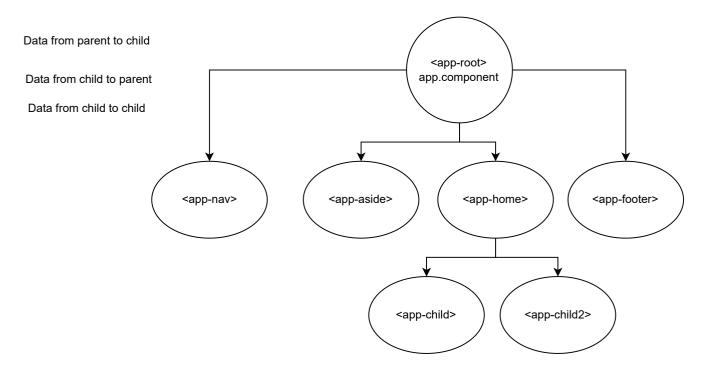
ToDo List



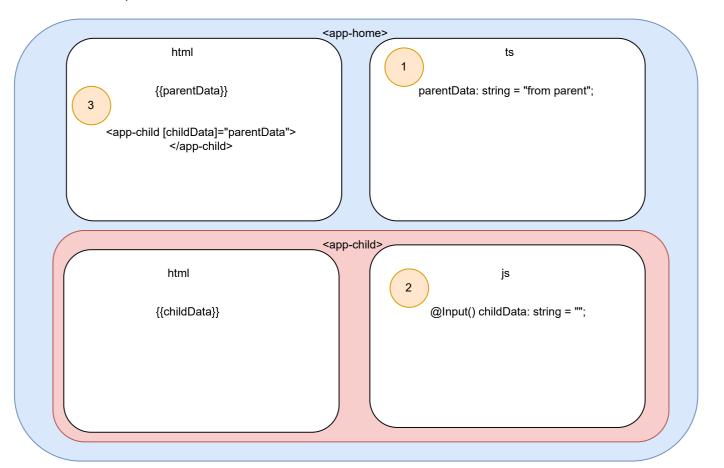
^{*}nglf *nglf else

^{*}ngFor *ngSwitch

Component Interaction



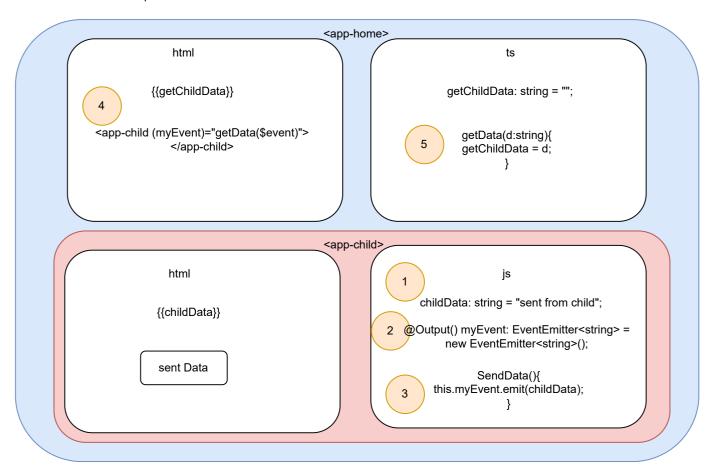
Data from parent to child



Generate Interface

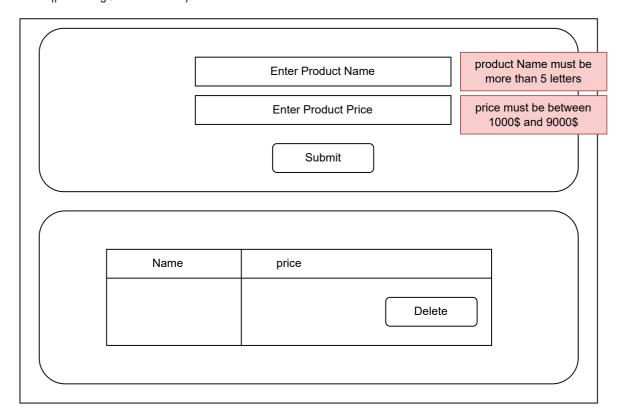
parent to child

- 1- @Input() varable in child
- 2- variable contain data in parent
- 3- in parent html . <app-child [inData] = "parentVar"> bind parent variable with child input

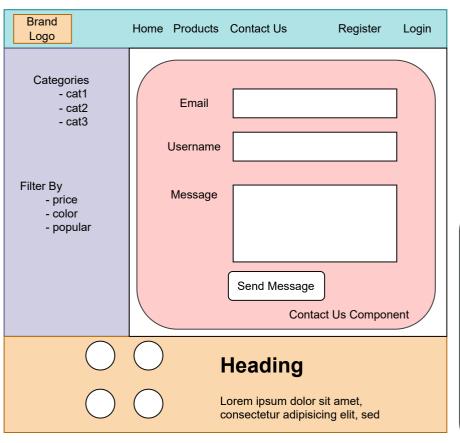


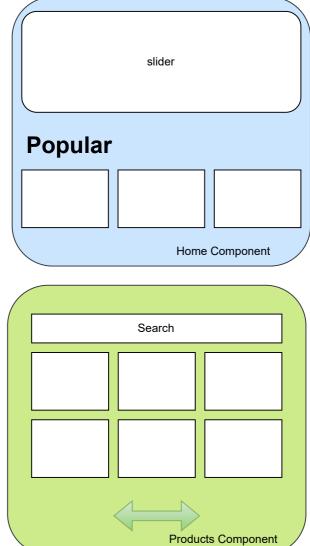
child to parent

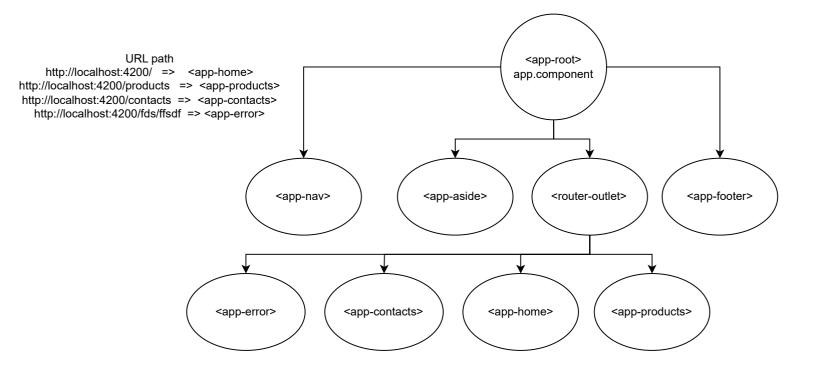
- 1- variable contain data
- 2- @output() event to send data outside component
- 3- think about emitting event (when click on button || inside ngOnInit Function)
- 4 in parent component:
- <app-child (myEvent)="parentFunction(\$event)">
 bind on event to get data
- 5- implement parent function and save data in component variable



Day 4 (Routing)







```
class A{
                                            class B{
Bb;
public A(B _b){
b = b;
}
```

A a = new A(new B());

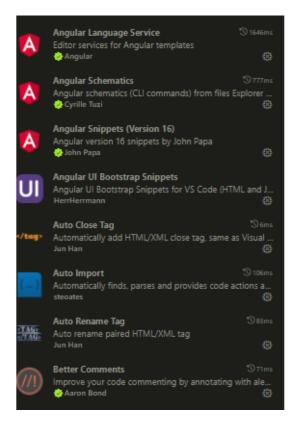
get all get by id add edit delete

ProductService Router Services

get data from routes

CLI Commands

ng g c componentName --skip-test ng g s serviceName --skip-tests ng g i interfaceName



Reactive Forms

Create Fake APi (json-server)

```
1-install json-server

npm i json-server
2- npm start => json-server --watch -p 3005 data.json
3- create data.json file with data you need in your app
```

Connect on api

```
1-create service => for each endpoint
2- import HttpClientModule => app.module
3- build service (getall, getByld, add, edit, delete)
```

Observables

```
error:

Complete:

Subscripe({
    next: (data) => {},
    error: (error) => {},
    complete: () => {}
})

ngOnDestroy(){
    unsubscripe();
}
```

next:

Guards

Task: Day6 => Form

```
Ecommerce
```

```
products => user(R) , Admin (CRUD)
```

user can add product to cart