

# Component Communication

6. Content Projection - Pass "html" from parent to child

# **Content Projection**



 With content projection I can pass from parent component to child component an entire template to process and display

#### Parent

#### Child

```
aComponent({
    selector: 'academeez-child',
    template: `
    <ng-content>⊄ng-content>
})
```

## ng-content



- By placing the <ng-content> tag, the Renderer will replace that tag with a projected content from the parent component
- The <ng-content> can get a select attribute which you can use to create multiple slots

#### Parent

#### Child

### AfterContentInit



- Angular provides a lifecycle hook **AfterContentInit** which will be called once when projected content finished initialising.
- You can change properties of the class in this hook

```
export class ChildComponent implements AfterContentInit {
  / **
     Called once
    when projected content finished initializing
  nqAfterContentInit() {
```

### **AfterContentChecked**



- There are cases when you want to perform some action based on projected content change. Angular provides you with AfterContentChecked for that
- This will run every change detection
- You can modify class properties in this hook

```
export class ChildComponent implements AfterContentChecked {
    /**
    * called every change detection
    * perform logic when projected content is changing
    */
    ngAfterContentChecked() {
    }
}
```

## Use case of content projection



- Component in angular needs to be reusable
- It needs to support plenty of use cases
- We often use ng-content as a way to configure how our component look while adapting it to different use cases.

## Summary



- We often take component like login form or register form and tend to duplicate them along different application
- Perhaps we can make a more generic login for all our apps?
- Perhaps we can customise it to be more generic and more fitting for all the apps using content projection
- ng-content can be used in the child to display template items passed between the component or directive tags
- AfterContent\* hooks can be used to know when the content projected is initialised or changed
- @angular/material often use ng-content patterns along with @ContentChild to create generic components.



# Thank You

Next Lesson: 7. aContentChild