# **Angular Content Projection with <ng-content>**

### Concept

Content projection in Angular allows developers to pass content from a parent component to a child component using the <ng-content> directive. It enables flexible and reusable components by allowing dynamic content injection.

### **Use Cases**

- Reusable UI components (e.g., cards, modals, tabs)
- Dynamic content injection
- Customizable component structures

## **Implementation**

### 1. Basic Single Slot Content Projection

Example where the child component allows dynamic content injection.

```
<app-card>
This is projected content inside the card!
</app-card>
```

### **Child Component:**

```
<div class='card'>
    <ng-content></ng-content>
</div>
```

#### 2. Multi-Slot Content Projection

```
<app-panel>
    <div header>Panel Header</div>
    <div content>Main Panel Content</div>
</app-panel>
```

### **Child Component:**

# **Pros and Cons**

Pros	Cons
Enhances component reusability	Cannot manipulate projected content directly
Supports flexible UI structures	Limited control over injected content

# **Best Practices**

- Use named slots (`select` attribute) for better control
- Provide default content when necessary
- Avoid excessive nesting
- Utilize `@ContentChild` for content manipulation

# **Common Errors & Fixes**

Error	Solution
Content not appearing	Ensure ` <ng-content>` is present</ng-content>
`select` not working	Use correct attribute selectors