Angular. Angular CLI. Components

Angular CLI

 The Angular CLI is a command line interface tool that can create a project, add files, and perform a variety of ongoing development tasks such as testing, bundling, and deployment.

Установка Angular CLI

npm install -g @angular/cli

ng new my-app

ng serve --open

Компоненты

- Представление части отображения на странице.
- Взаимодействует с отображением.

```
@Component({
    selector: 'hero-list',
    templateUrl: './hero-list.component.html',
    providers: [ HeroService ]
})
export class HeroListComponent implements OnInit {
/* . . . */
}
```

Template expressions



Взаимодействие между компонентами

```
import { Component, EventEmitter, Input, Output} from '@angular/core';

@Component({...})
class ChildComponent {
    ...
    @Input() userName: string;
    @Input() userAge: string;
    ...
}
```

Привязка к событиям дочернего компонента

```
import { Component, EventEmitter, Input, Output} from '@angular/core';
@Component({...})
class MyComponent {
 @Output() onChanged = new EventEmitter<boolean>();
```

Шаблонные переменные

```
@Component({
    selector: 'child-comp',
    template: `{{counter}}`
})
export class ChildComponent{

    counter: number = 0;
    increment() { this.counter++; }
    decrement() { this.counter--; }
}
```

ViewChild

```
@Component({
    selector: 'child-comp',
    template: `{{counter}}`
})
export class ChildComponent{

    counter: number = 0;
    increment() { this.counter++; }
    decrement() { this.counter--; }
}
```

ContentChild

Lifecycle Hooks

Hook	Purpose and Timing
ngOnChanges()	Respond when Angular (re)sets data-bound input properties. The method receives a SimpleChanges object of current and previous property values. Called before ngOnInit() and whenever one or more data-bound input properties change.
ngOnInit()	Initialize the directive/component after Angular first displays the data-bound properties and sets the directive/component's input properties. Called once, after the first ng0nChanges().
ngDoCheck()	Detect and act upon changes that Angular can't or won't detect on its own. Called during every change detection run, immediately after <code>ngOnChanges()</code> and <code>ngOnInit()</code> .
ngAfterContentInit()	Respond after Angular projects external content into the component's view. Called once after the first _ngDoCheck() . A component-only hook.
ngAfterContentChecked()	Respond after Angular checks the content projected into the component. Called after the ngAfterContentInit() and every subsequent ngDoCheck(). A component-only hook.
ngAfterViewInit()	Respond after Angular initializes the component's views and child views. Called once after the firstngAfterContentChecked() . A component-only hook.
ngAfterViewChecked()	Respond after Angular checks the component's views and child views. Called after the ngAfterViewInit and every subsequent ngAfterContentChecked(). A component-only hook.
ngOnDestroy	Cleanup just before Angular destroys the directive/component. Unsubscribe Observables and detach event handlers to avoid memory leaks. Called <i>just before</i> Angular destroys the directive/component.

Ресурсы

- https://angular.io/
- https://metanit.com/web/angular2/

Q&A