

Component Life-Cycle

Component Life Cycle:-

All Components and Directive have their life cycle as Angular creates, updates and destroy them.

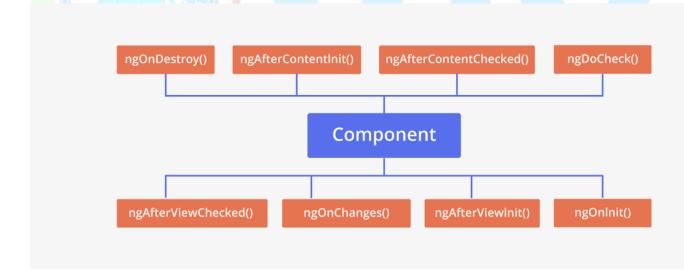
Angular life cycle hooks begin with the instantiation of the component class by Angular.

Once the component instance is destroyed, and its displayed template is removed from the DOM object, the lifespan terminates

Angular provides some key Interfaces which provides hooks to handle the sensitive events. Like form initialization, getting data from services, and as soon as component life cycle ends. We need to close the resources and perform cleanup activity.

Note: - constructor is not a life cycle hook, it is a typescript feature.

Life Cycle Hooks:-





Component Life-Cycle

1. ngOnInit():-

ngOnInit hook get invoke just before view is render on browser window.and just after class constructor and ngOnChanges hook get executed.

This hook is invoked once in component life span.

ngOnInit hook is mostly use for initialization purpose.

2. ngOnDestroy():-

ngOnDestroy hook get invoke just before component complete its life span (removed from DOM object)

This hook is invoked once in component life span.

Using this hook we can perform cleanup activities.

3. ngOnChanges():-

ngOnChanges hook invoke just after class constructor and just before ngOnInit hook get invoked.

Also if there is change detected in input property then this hook get invoked again.

This hook accept argument type of SimpleChanges.

4. ngDoCheck():-

ngDoCheck hook is invoked just after ngOnInit hook get executed.

As similarly ngOnChanges, ngDoCheck also get invoked whenever changes are detected.

5. ngAfterContentInit():-

ngAfterContentInit hook is invoked just before first ngDoCheck.

It can be use at the time of content projection.

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Component Life-Cycle

6. ngAfterContentCheck() :-

ngAfterContentCheck hook will be invoke after every ngDoCheck.

7. ngAfterViewInit():-

ngAfterViewInit will be invoked after first ngAfterContentCheck.

8. ngAfterViewCheck():-

ngAfterViewCheck will be invoked after ngAfterViewInit and after every subsequent of ngAfterContentCheck.

Example: -

1. Snippet of app.component.html.



Component Life-Cycle

2. Snippet of parent.component.ts.

```
src > app > parent > 🐧 parent.component.ts > 😭 ParentComponent
       import { Component, OnInit } from '@angular/core';
      @Component({
         selector: 'app-parent',
         templateUrl: './parent.component.html',
         styleUrls: ['./parent.component.css']
       export class ParentComponent implements OnInit{
  9
        constructor()
        console.log('Parent Constructor..!')
 11
 12
 13
        className:string='';
        flag:boolean=true;
       name:string;
       ngOnInit(): void {
         console.log('Parent ngOnInit..!')
        this.className="Complete Java Classes..!"
       ChildFlag()
 21
          if(this.flag)
           this.flag=false;
          }else{
           this.flag=true;
```



Component Life-Cycle

3. Snippet of parent.component.html.

4. Snippet of child.component.ts.

```
src > app > child > 🐧 child.component.ts > ધ ChildComponent
      import { Input,SimpleChanges,ContentChild,ElementRef } from '@angular/core';
      import { Component, OnDestroy, OnInit,OnChanges ,DoCheck,AfterContentInit} from '@angular/
      @Component({
        selector: 'app-child',
        templateUrl: './child.component.html',
        styleUrls: ['./child.component.css']
      export class ChildComponent implements OnInit,OnDestroy,OnChanges,
 10
                                           DoCheck, AfterContentInit{
       constructor(){
        console.log('Child Constructor..!')
       @Input() name:string;
       @ContentChild('parentContent') parentContent:ElementRef;
      count:number=0;
      intrval:any;
       ngOnInit(): void {
        console.log('Child ngOnInit...!')
       this.intrval= setInterval(()=>{
         this.count++;
         console.log(this.count)
        },1000)
```



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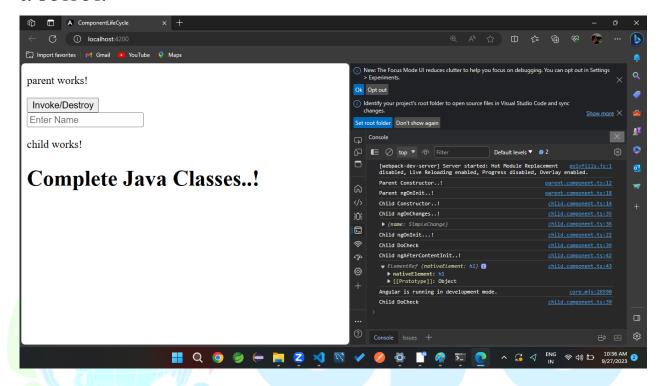
```
ngOnDestroy(): void {
    clearInterval(this.intrval)
    console.log('Child ngOnDestroy...!')
}
ngOnChanges(changes:SimpleChanges)
{
    console.log('Child ngOnChanges..!')
    console.log(changes);
}
ngDoCheck(): void {
    console.log('Child DoCheck')
}
ngAfterContentInit(): void {
    console.log('Child ngAfterContentInit..!')
    console.log(this.parentContent)
}
```

5. Snippet of child.component.html.



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6. OUTPUT:-



Complete Java Classes