



ANGULAR – LIFE CYCLE HOOK

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Angular lifecycle hooks

- A component in Angular has a life-cycle, a number of different phases it goes through from birth to death
- Once Angular loads the components, it needs to check the input properties, evaluate the data bindings & expressions, render the projected content etc to start the process of rendering the view
- Angular also removes the component from the DOM, when it is no longer needs it.
- The Angular life cycle hooks are nothing but callback function, which angular invokes when a certain event occurs during the component's life cycle



Angular lifecycle hooks

This is list of life cycle hooks, which angular invokes during the component life cycle, Angular invokes them when a certain event occurs

- ngOnChanges
- ngOnInit
- ngDoCheck
- ngAfterContentInit
- ngAfterContentChecked
- ngAfterViewInit
- ngAfterViewChecked
- ngOnDestroy

Life Cycle of a component begins, when Angular creates the component class. First method that gets invoked is class Constructor.

Angular lifecycle hooks

ngOnChanges –

- The Angular invokes ngOnChanges life cycle hook whenever **any data-bound input property of the component or directive changes**.
- Input properties are those properties, through which parent communicates with the child component
- The change detector checks if such input properties of a component are changed by the parent component. If it is then it raises the ngOnChanges hook

```
ngOnChanges() {  
  console.log("AppComponent:ngOnChanges");  
}
```

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ngOnInit–

- The Angular raises the ngOnInit hook, after it **creates the component and updates its input properties**. It raises it after the ngOnChanges hook
- This hook is **fires only once** and immediately after its creation
- We can add **any initialisation logic** for our component in this method

```
ngOnInit() {  
  console.log("AppComponent:OnInit");  
}
```

Angular lifecycle hooks

ngDoCheck – The Angular invokes the ngDoCheck hook event during every change detection cycle. This hook is invoked even if there is no change in any of the properties.

ngAfterContentInit– ngAfterContentInit Life cycle hook is called after the Component's projected content has been fully initialized

ngAfterContentChecked– ngAfterContentChecked Life cycle hook is called during every change detection cycle after Angular finishes checking of component's projected content

ngAfterViewInit– ngAfterViewInit hook is called after the Component's View & all its child views are fully initialized

ngAfterViewChecked– The Angular fires this hook after it checks & updates the component's views and child views

ngOnDestroy– This hook is called just before the Component/Directive instance is destroyed by Angular. You can Perform any cleanup logic for the Component here.