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Component Lifecycle/Hooks

- ✓ Constructor
- √ ngOnchange
- √ ngOnInit
- √ ngDoCheck
 - ngAfterContentInit
 - ngAfterContentChecked
 - o ngAfterViewInit
 - o ngAfterViewChecked
- √ ngOnDestroy

Life Cycle Hooks

constructor(DI)

ngOnChanges

ngOnInit

ngDoCheck

ngAfterContententInit

ngAfterContententChecked

ngAfterViewInit

ngAfterViewChecked

ngOnDestroy

called before any hook to inject dependency
called after a bound input property changes
called once the component is initialized
called during every change detection run
called after the ng-content has been projected into view
called every time projected content has been checked
called after component(child) view has been initialised
called every time component(child) view has been checked
called once the component is about to destroy

What are Component Hooks/Lifecycle?

- Every component in angular has a life-cycle, a series of stages that goes through from initialization to destruction
- Life-cycle hooks events occur at each stage. As a result, we can use these hook events various stages of our application to achieve fine control over the components.
- Hooks can implement by using interfaces

what is constructor?

- it is special method which will invoked automatically whenever object is created
- > it is typescript feature not angular
- > it is used to dependency injection (di)
- > it executes in first of hooks after that start hooks

example;

```
export class UsersComponent implements OnInit {
    firstName:string;
    Dl
    constructor(private userService: UsersService) { }
    ngOnInit() {
        this.firstName = this.userService.fetchData();
        }
        initialization
}
```

What is ngOnInit?

- > Called on initialization
- OnInit is a lifecycle hook that is called after Angular has initialized all data-bound properties of a directive.
- > ngOnInit() method to handle any additional initialization tasks.
- ➤ This hook is called when the first change detection is run on the component.

Example

```
export class BComponent implements OnInit {
  ngOnInit() {
  console.log("ngOnInit called")
  }
}
```

Difference between constructor and ngOnInit

| constructor | ngOnInIt |
|----------------------------------|-----------------------------------|
| Should use only for dependency | Should use for handle any initial |
| injection | logic that need to be executed |
| It is part of typescript | It is part of angular framework |
| Binding not happened till we can | Binding with the UI is done |
| access only variables | So can access all data bound |
| | properties |

Life Cycle Hooks constructor ngOnInit ngAfterContentInit ngAfterViewInit ngOnDestroy ngOnChanges ngDoCheck ngAfterContentChecked ngAfterViewChecked

ngOnChanges

- this method is called once on components creation and then every time changes are detected in one of the component input properties
- It Receives a Simplechanges Object as a parameter which contains information regarding the which of the input properties has changed- in case we have more than one – current and previous value

ngDoCheck

- During the change detection, when angular checks components input properties for change, it uses === for dirty checking.
- For arrays/object this means the references only are the dirty checked, since product array isn't change. Hence ngOnchange will not execute for that the solution we can use ngDocheck
- Detect and act upon changes that angular cant or wont detects its own
- Called during the every change detection run, immediately after ngOnchanges and ngOninit