Lifecycle hooks

- Component instance has lifecycle hooks which can help you to hook into different events on components.
- lifecycle ends when component is destroyed

 lifecycle Hooks Every nook has a intertace for it
- * ng On Changes
- * ngoninit
- * ng Do cheek
- *ng AfterContentInit
- ng A fler content Checked
- * ng Affer Viewlait
- * ng Afterview checked
- * ngon Destroy

These are called after a component is intialized.

- Constructors should not have any blocking code its hould be in ngOn(nit

* Component Communication:

- to facilitate communication of components.

Three ways-

- 1. Using@Input and@Output
- 2 Using @ viewchild and @ Contentehild
- 3. Using services
 - 1. @ I rput and @ Output

lets say 2 have 2 components nooms and nooms-list and you want to peur a list of nooms from nooms component to rooms-list and display them in table there.

la rooms-list-component to

export down Room List Component implements ownit {

> @ Input () rooms: Roomust[] = [];

make this rooms property as valid that property on approprilist selectes constructor () { }

ا کالت در ایمتالی ا

```
ngunumer. voia {
3
Now in nooms-list-hom.
   change name som Roomlist to norme.
Now in your parent component ie- noms
 Inside nome component wind
  Lapp-room-list [rooms] = "nomlist" > </ app-nomlist>
    Rooms — Parent/Smart component
-knows where to get data from
   Roomelist - child/Dumb component
                just needs to know what to render
Since the child component does not know now to
perform actions it can ack parent to do by puesing data
back to parent. Here is where we need @ Output
In noms-list-component to
 @ Input rooms: Room List [] = [];
@ Dutputa) selected Room = new Event Emitter < Room List > ();
 Selectroom (room: Roomust) &
       this . selected Room . emit (mom) - emit /give data back to parent
                                    who has subscribed to this event
In room-457 -component. 4tm
 Add felcet Roum option for from in table and on Click
 call to Felethoum (nom)
Incide nom.companent.to
selectRoom (nom: Roomlist)?
        this selected Room = toom;
        console. Log (norm (json);
  3
In noom. component-htm
 Ldiu>
               [rooms] = "roomlist" du ays & event
 < app-roome-list
        (selected Room) = "selectroom ( $event)" > </app-nooms-vist>
```

You can also print the details on your webpage. Alone code vill leg on console.

* Change Detection

- -It is the process through which Angular checks to see whether your application state has changed and if any DOM needs to be updated
- -Angular runs its change defection periodically so that changes in data model are reflected in an application's view.
- -change detection can be toiggered either manually or through an asynchronous event.
- By default, angular will run change detection on each and every element.
- -You can optimize this by skipping parts of your application and running change detection only when necessary.

In your rooms-list component. to under @ Component ({ {

change Detection: Change Detection Stoategy. On Push

3)

- * Before using onPush you have to satisfy below requirity-*— OnPush can be applied only in case I am not modifying some data internally in the component tow? Use Input and Output
- *- Immutability we should always return a new instance. In case you are modifying the object return a new instance.

K this, nomlist push (norm); - 3 modifying in place

this room list = [... this roomlist, room];

spread operator.

assigne the previous list + new el to the object

* ng On changes:

-can be applied only on component/directive which has laput property

export does nombist implements on changes?

ngonchanger (change: Simpleehanger): void &

consoletog (changes)

;f (changes['title'])
}

this. title = changes['title']. currentvalue. to Upper(ox();

3

* ngDocheek:

-hardly used very costly

- will be executed everytime you raise an event irrespective of where this component is implemented, it will listen to any changes that have happened inside your entire application.
- DD NOT USE with Ngonchange on same component
- can be used to detect some changes which are not controlled anywhere.

* View child: - Decorator