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Chapter - 09 Optimizing own App

CUSTOM HOOKS

- why? when? and How?

why should we build hooks?

* Reusability

* Readability

* Seperation of concerns (1) ATUPON

* Maintainability

-> Hooks are just normal javascript functions.

- functions are used to wrapup a logic and can theuse it anywhere we want to

Eg : In Booky je

filterndatal) is a function written seperately. We didn't write it between the cade because it bricaps modularity, Tremability & readability.

If I need to use this function anywhere else then, I can

6 Equat place to keep ne-mable functions :

- Make a folder utils (It's whicity, helper on common or whatever name).

I sovide cresse a file utilize and write the function filterbase () inside it and make it named export.

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Dany no of helperifunction can be kept inside utilings

- Advantage:

+ functions become neaderble & nousable

+ This makes our code morie festable because I can wrife separat
testages for this.

* maintainable because it is easy to allow

* Modularity means we've briefen down code into small preces and every pieces have it's own responsibility.

Let us take < Restaurantmenu/s component. Job of this component is to show restaurant menu.

in find out restaurant id (res Id)

(ii) get defails of the rustawrant from server.

(iii) to display.

we'll try to extract this logic. We will create a custom hask that will help us to get the nestawrant defails.

[NB: Create a hook with "use" name infrant of et]

* Create a custom hook use lestantiant

- D'create a new file raned use Restaurant. is

* coele

DNEXT PAOTE

```
Date .....
  const use Restaurant = (resta) => }
      const [restaurant, set Restaurant] = esse state (null);
     // Gret data from (API)
      useEffect ( 1) > & getRestaurant Info (); 3, [7];
     async function get Restaurant Infol 15
           const date = await felch (
            "https://www.swiggy..."+ mesed);
          const ison = await data. ison ();
           sefrestaurant (1807 dafa);
     Mrefurn restaurant Data
       neturn nestaugant;
 export default use Rectaurant;
Meanwhile, in < Restaurantmenul> 37
     Const Restaurantmeny = () => }
           const 3 nestay = use farams ();
          const yestawant = use se stawant (nes Id):
          return | Mesfaurant ? (< shimmer(/>):
                1, 3
```

export default Restaurantmenu;

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5	Next featuore:
5	Online & offline of annual of a shake a matter and
B	@) If the easer have no inferrnet connection, then it should show
	"You are offeine, check your internet connection". 31 Else it should show the date.
3	In Body is - Small and Ashard real allerge was a state of
9	The state of the s
	const Body = () => ? const is Online = use Online ();
9	if (! is Online) }
9	<pre> // // // // // // // // /</pre>
9	J, 2 = 10) Rosel 9 x 20
)	y circondition and y circonditions and a second
3_	Now we can create auton hook use online ().
	The first that the state of the
)	use On Cine. js J
	import & use State, use Effectly from "Heact"; Tuckson to
	const use On line = ()=> ? const [isonline, set Isonline] = 4 to State (titled;) or
	use Effect (1) => { offene window. add Event Listner ("online", 1) => {
	11. Set Is Online (true);
	window addition (is fine ("Offline, 1) => ? 3), -1:
	Spiraly networn iconline; Teacher's Sign
	export défauet use online;

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-> charge speed option (fast, &	low 361, offline)
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* cleaning caene	अर्थ के लेका अपना ने मान है
O whenever eventlistners is added	I, we should clean it up. E
@ [whenever you are going offli	Te & geoting back online,
eventustness is created only	once because we've empty
dependency array.	
· It is always a good practice -	to clear the event Ustreti
when we go of the component. O-	fremwice browsen will keep
hold flose.	€ 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1
o to do that of) INTEREST
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HARLOW, Remove Event	istner ("online" handle Double!
window. Temore Brend ice	1 () () () () ()
4	nen ("offline", handle offline)"
3, (1):	8
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For the whole wide, parcel cheater only one 'je fele In this file, all the code is bundled fogether. So the Size of first index. is file is large. But in production bundle size of this file should be small.

There would be a 100s of components in a large webrite like "make my frup" Suppose if all these are builled together in a single index. is fire, It will blast. It will make our app very

go to build a large-scale production ready application we should do =

"CHUNKING"

It is also called as of

- -> Synamic Burdling
- lary loading

we cannot bundle everything in our app.

- -> On Demand Loading
- -> Synamic Import

making a new different bundle in own App

Let us create "Instamant"

- D create an Instamont component
- In Appije file, do chuncking :-

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Dên Appijs file, do charping?

Appils : 7

Instead of importing like fuic:
import Instamant from "./components/Enstamont";
Do lazy loading a

const. Instanail = lazy (1)=> 5

return import (". /components | Enstancert");

So, now the index. is "file in dist forder worn't have code of imstamant. It is creefed as reparte file while loading This is called ON-DEMAND LOADING.

"when you are loading your component in demand,
treact tries to suspend it"

So when instamorf is loaded for the first fine, we see an entired menage on signeen. This is because, instament file took 27 ms to get loaded. But react fries to render it before it get loaded. Thet's why ermon.

Solution for fuis

"Suspense" - D we can wrap instance inside suspense

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3	à patr : "/instamort",
7	- Promers mean for concern framework in
1	element:
1	< Suspense>
1	cInclamart(>
1	c/suspense
9	4' 1'
1	77 47 77 223
	React now knows fact when there is a suspense, what well be
9	loaded. paras and the and all largers to be the tradent to
3	1 Agreement address to the forest to the control of
3	In the intermediate time, a shimmer should be shown.
3	So, there is a proof known as "fallback".
3	So, write : 7
3	
9	= Suspense fallback = g <shimmer 3="" ==""></shimmer>
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	(ndisamethin) To stolung -
770	OB:
0	* Never ever dynamically load your component intill another
	* Never ever dynamically load your component inside another component.
-	
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