Custom Hooks

Caston Hook is not mandatory but it is ill make your code more readable, more usable and medular.

5 breaking into small component so that It is Priore out comporar havive third own responsibility.

Custom Maks are nothing but Utility function or single.

helper function so best place to create the Custom Hork's Walls.

- > Separate file for Separe Mosk
- => Name the file exactly same name as Hork
- > Name of Mark should start with "use"

In one code hopse Retainent Meine Card is having two responsibility Son - Cathing dates

So we have fetched data using Cution hook which makes Restaurant Menu card single Responsibility and now 9+ is more modular and more testable

To write any Hook first finalize the contract is I/P to the Hook La O/P of the Hook

Notes Provided by Akshay Pain is having all centent for His Cecture.

Please refer that.

Burghing Chunking Code splitting Dyramic Birdling Casy loading On Demand Loading. To do this we are not importing Our Group B like praises.

impost Grocery from ". / components/Group," We will impost using lasy function This lagy function takes the callback function and that careback for impost uses
impost function and that impost of fakes

How wayd imposing the path. Const Corocery = lasy(1) => impost (". / components/Grocery");

To work this we have to use Suspende , we will wrap one component into surpense.

When we click on Growy code of Growy is not there
it takes some time to fish but Reart is so fast that
it that the it throws error. Superce will solve it
We will wrop our Gruny Component in Swpen se

E posts: "/growy", element: (<Suspense fallback = { < h1> loading ... < / h1> }> CoTThe time when Goding of 1711 </sus perse> from the free buck. cede

Jo D9kHa Hoi W. Rista Hou

TAILWIND CES

Command to Install Cailwind Css

npm install - D tailwinders posters

Little Towa Scarpt.

If we have to give any hard coded value than we consuce [] to porvide the value

e.g. width of a or px is not available
we cause w-[200px]

This lecture is more practical. So have less NeAes.

DATA IS THE NEW OIL

Higher Order Component

It's a function which takes a component and returns a component.

Offer enhancing.

Higher order functs / component it returns a funct / component and component is a function that return some piece of JSX.

Accordin => Which we can expand and collapse
Accordin Meader
Accordin Title
Accordin Body.

lifting the State

In au APP All Restaurant Catgories are maintaining their own state. and are uncontabled component.

should collapse, for this we have to give power of deciding collapse and show to their parents instead of each child returned category. By lifting the state: Now, Parent component and called as is controlling the child component and called as

Controlled Component.

By doing this we want to make should houges
in & parent from child he can't do this directly
in & parent from child he can't do this directly
but we can do this from indirect way.

In child we will occus this or proper and change it.

const hide show list=0=>{

setting show Index);

= Leaen more from Notes of Akstey Saini

Son A MAI

Strang State Blw Components

Sometimes you want the state of two components to always change together. To do it revove state from both of them move It to their closest common parent, and their passit down to them via props. This is known as lifting state up, and It's one of the most common things you will do writing react ode.

Controlled & Uncontrolled Component

- It is cummon to call a component with some local state "un controlled".
- In certicul you may say a component is controlled when
 the important information in it is deiven by props
 rather than its own local state. This lets passent
 component fully specify its behavior.

Props Doilling

Usually you will pass in formation from a pasent component to a child component what props. But passing peops can be come verbose and in convenient by you have to pass them through many components in the middle, or if many components in the same information. Context lets the pasent component make some informations available to any component in the tree below - no mother how deep without passing explicitly through to profit

Read More Rom Notes by Akshay Saini

There is some data which we needed anywhere mous app.
for that we use lentest.

Contest is like some global control Object. Which can be acced the anywhere in the object.

We wast put that data in Context which we needed any where In over Application. E.g. User Name.

We did not put all the date in poof context Aherwise what's the use of poops then

Creating a Content

Import Ecreate Context } from "reaut")

Const User Context = create Context({

logged In User: "Default User",

});

export default User Context;

To use It we use hook. Named as excuse Contact} const { logged Iniser } = use Context (clses Contact); concole leg (legged Inlier); How to use this Confort 9n Class bused Components: In class based components we don't have horter. We use Contest Logged In Usea JSX which is hailed < User Context. Consumer > Call tack on and this {(data) >> console.log (data)} con back in get ones of the data. Luser Context. Consumer > How to Update Context Const Applayout = () => { const [User Name, set Oser Name] = use State(); use Effect(1) ⇒ { const date = { nome! "Akstry Soin", set User Name (data, name); 3, CD); 9000

```
return
    < UserContext. Provider value = ({ logged Invier: userName};
   11 Default
       { // Akutay Saini */} wropped whole Appro Sowhole Approl Name
updated value

 class Name = 'app">

       < User Context. Provider value = { { logged In User: "Hon Muck"}}>
                               e wropped Header and updated only
         $ 4 Hon Muck #/3
                                     that will have provide whe
            < Header />
         «Vees Confest. Bovilles»
       <artit/>
     4liv>
    < vice Context. Porrider >
   >,
31
```

REDUX

- * Redux is not mandatory in your application.
- * Redux and React are different liabrianes.

 ** Redux is not the only llabrary for stake Management eng zustand.
- I Redux offers easy Petrugging.
- ⇒ Redux is a predictable State Container for JS Appr.
- * Rober Work in date layer. It is used to managing and centralising application state.

 Redux Toolkit

Kedy Toolkst

The redux trother parkage is intended to be the standard way to write Redux Logic. It was originally created to help address these common concern about Kedux.

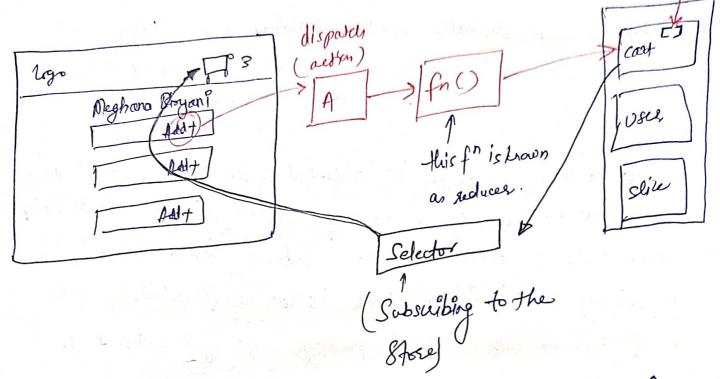
- * Configuring a Redux store is too complicated.
- * I have to add a lot of parkager to get Redux to do anything useful
- * Redux requires too much boiles plate code.

Using Redux me are building our own Cart

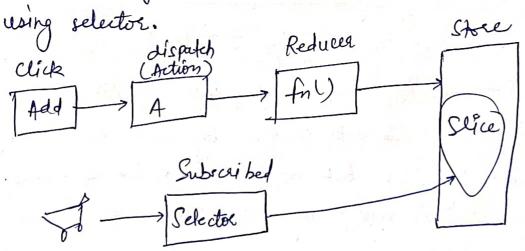
- > Redux stre is kind of like very big Is object with 107 of dota înside 9t and it is kept in global central place.
 - * Is it good to keep all the dots inside big \$500 Redux stree? les 9t is absolutely fine. but so that our Redux store does not be come very of very durnsy we have clicer in side Redux Store.

that Whotever you wants to do there can be a slice for it in Rodun.
Stree.

When we click on Add+ button 9+ will dos patch an action and then 9+ calls a function and then 9+ calls a function and then function mainty the data not the slice. And are slice will be updated.



If the data inside the Cast Changes, My Header component will update automatically. Hot is why we called Subscribing to the Are. My Header Component has subscribed to the use of the using selector.



```
What we gonna do
 - Install @ reducijs/toolfest and react-reduce
  - Build our store
  - Connect our stree to our app.
      Will create Plice (cart-Slice)
      dis patch (action)
   - Selector.
(monard
npm i @ reduxis/tosisit
npmi seat-redun
                           we will pass our store as props.
   < Provider store = { }>
                                 Imported from read-redux
      < | Provider >
    To create our store newill use configurestore
                                                imposed from
                                                Quedux js/tool)ut.
                             createstice({3):/
    To create Silce we use
      It take some configurations
       const cout slice = creates lice ({
             name: cast,
             initialState: 2
                Items:[]
             reducers: { action
                add Item: ()=>{}
```

We export action and reducers from this slike.

Export const { add Ikm, remove Isem, clear (art) = cart spice. actions; export default cart slice. reducer;

Explanation of Code:

remove Ifem: (State, action) => { / me are mutating the state state. splice (actions. payload, 1);

This code is part of Redux reducer function, specially an action handles for remove

Redux Reduces

In Redux, a reducer is a function that taken the current Date and and action as erguments and returns a new stake. Reducers are used to specify how the application's state changes In response to action or sent to the store.

Parameters

Stat: This represents the werent state of the part 9 the Redux store managed by this reducer

This contains the index of the Item that should be removed from the state away. The 'payload' property is

where the data passed with the action is stored. State splice (action. payload, 1): no. of elements to henore. specificathe start irden This is an array method that changer the contents of an array by removing or replacing existing elements and los odding news elements In place. no. of elements to remove Similarly State grice Cartier. payload index, 1, actions. payload . Hem)? 4 New 9km that will be inserted at the specifies the start index specified Index. at Mhich to hegen changing that array. Const appStore = configure Store ({ reducer: { This is over whole main Appreducerand this reducer contains small cart: cart reduces reducers from slice. Il Subscribing to the store using a Selector. peningstore une store une Const cast time use Selector ((store) => store. cart. items); Cese Selector flook gives

awast the store

We have use Dispatch () hook for dispatching an action.

Whenever you are using Selector. Make sure you are subscribing to the sight postion of the stree. If you don't subscribe to the right postion of the store it will be a big performance is sorted. iscule.

const store = use Selector, ((Store) => store); } this is very const Cart Items = Store. cart. 9 tems; (es efficient const Cart Items = Store. cart. 9 tems;

const store = use Selector ((store) =) store west. Hems) I'mill De appared only when His change, Horaly to do wish other shile Here we have nothing to do with whole stree we have meaning from carrolice of store. If anything changes in

sare my store væidse got affected. We need to subscribe the selected possion of the state.

=> reducer for one big reducer

I reducer for solve having multiple reducers.

-> While exprosing we use reducer because exposing single reducer.

* In Vanilla (older) Reduse > Don't Mujate State.

- Prohibited 9n Vanilla redu state. items. put (aution, payload); but vally in new Reduce - Toolkit. So, In vanilla we do same like Toolk9 4. new State. Hems. push (action. payload); In Redux Tortleit 9th, new State. Hems. push (action. payload); using Immer library.

In Redux Toolkit, we have to mutate the State, and don't have to return anything earlier returning is mandatory

Immer

Immer is a fine package that allows you to work with immutable state In a more convenient way.

State = []; — "It will not works because we are not mutating the state we are changing the reference.

In Redua

console. log (state) — It will not woods
compole. log (current (state)) — current comes flor @ redox to sitet.

Al While clear east - Redux for 19st says eather mutak the state or return a new state.

(state. 9 tems. length = 0;)

Return & 9 tems: [] };

This new Object will be replaced inside original state.

of Redux dev Ports

Ly Very helpful in debugging
Ly It basically give consolering of every thing we are doing and also more we can do.