## > RTK (Redyx Tooker)

TI ACHON

createSlice? - Configure store? Topogració mide sea moitole Taction Creators to when small bloss create Action # 10 was 10% use Dispatch ? Col- production use Selector ?

How to connect React With reduce footkit ? If we use RTK-then, is we need redux ? yes, we need Package for communication but them redust and RTK. · Action creation (usho creates action)

=> Redux

of pure function which creates an action Reduxis a pattern and library for managing and "actions". It serves as a centralized store for State that needs to be used across your entire application, which with rules ensuing that the state can only be updated in a predictable tashion.

Redun maint topics stower is robser sigt gow of

(1) Action (what to do ?)

(2) Reducer (Flow-todo?)

Store Cobject which holds the State of the applications who testing

4) Functions associated with the store like create Store(), dispatch (action) and get State ()

which Component readjupdate dated in

the redun one store.

of can be used while

I S RTK (Redux Tooked)

Action

Actions are plain javascript objects that have a Etype feeld. Actions only tell what to do, but they don't tell have to do ? ....

en- gretwin &

Stylest publifyer Incrementions at walt 194 5 miles payload: number 177 ser ser je

reduce and Pik. · Action creator (who creates action)

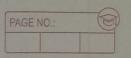
A pure function which creates an action. easure and provide how weating to a cubel

export const inchamber = (num) 722 est arote hosible topretwing cones for "inosto"

all was sense bow of type? Increment all to the primine labore Alpayload; number della

Action creator is reusable, partable and easy Reduced (Sabotana) results (S)

· Reducers are functions that take the current state and action às arguments, and retwin



# ex- const initialState = 0;

const change Number = (state=initial state, action) =>

Switch (action. type) {

Case "Increment": return 8 tate + action. Payload;

case: "DEcrement": return state-1;

défault: return state;

4

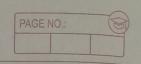
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#### 3 Store

- · The reducers that make up your app.
- e It's important to note that you will only have a single store in a seedua application.
- · Evory Redua store has single root reducer function.

ex for creating redux store-

-> imposit { create Store } from "redux"; const store = create Store (rootReducous);



ex- court suffat fact = 0;

# Reduct Pounciples:

const change Numbers (state = initial state, u

- O Single source of truth

  The global state of your application is stored
  as an object inside a single store
- 2) State is Read-only

The only way to change the state is to dispatch an action.

- 3 Immutability, one-way data flow, Predictability, of outcome.
- Dechanges in are made with pure reducer
- > RTK
- -> Slices in RTK?

A function that accepts a "Slice name", an initial State, and an object of neducer functions, and automatically generates action creators and action types that correspond to the neducer and State.

- · Slice le nothing but it is a part of
  - that creating & lice, we can see actions of that stice consider.

    That created automatically behind the scenes slice actions (1997)

## => exterareducers in RTK:-

• If we want that any micro-reducer or ministeducer of a slice is can be used inside another slice then we can use the concept of "extrakeducer". That is we can share a micro reducers of a slice between multiple slices if the task is same related to each other

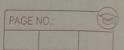
#### OR

- then we reducers.
- reducers then use "entra Reducers"
  - extraReducer is referencing the actual oxiginal microReducer that we create in slice 4 if we create in slice 4 if we create actual oxiginal microReducer then extraReducer will give us error because it was referencing to it.
- Thank 2 Slices i.e, adminstice and userslice, it is in adminstice has list of adminstant and userslice has list of users. 'clearuser' reducer (mioro) delete au the users and same thing are want in adminstice where the same logic is implemented for deleting all user from adminstice. Then we can make mioroskeducer of worstice is defined to be as extra keducer in the stace of a user.

  and then we can neuse the same logic for clearing value of state in adminstice also.

  for clearing value of state in adminstice also.

  -80, it only shore the logic of the code water execution depends on listouch().



· createAction() is a action creator and action creators creates action object.

=> createAction() function in RTK:-

• We have seen that 'extrakeducer' is helpful and increases code reusability by sharing the logic of the 'reducer' present inside a slice to other slices's reducers.

but if the main original reducer will be deleted or removed from the code then it will throwwan error because the extrapeducer is pointing to the main actual reducer of the slice that code is shared and if the main/original reducer removed then to which to de, the extrapeducer will points or references.

- For solving this Problem, we have createAction()
function— (for Creating actions using createAction()
make folder 'actions' and 'index. is' inside that folder
for defining/using this function.

- import & created ction of from " @ redux; 8/700/kit".

export const deleteuser = createAction "delete users")

ond export for entropeduces in stice

• we have created action for that reducen used in entrakeducear. so no worry if the main oxifinal reducer of slice removed from code. Can charter wanted courtien action action type (which we will use in entra)

wed in extra reducer extra reducer function

we can import deleteusers from actions/index. is to to. User the dispatch () and pass this deleterseers! inside the dispatch. · Now we can import this 'deleteuser' & to in the any slice where we are writing entrakeduces code. - import { deletelser & from' ... - laction | index' deleteuren · en entra Reducor is used in object of createstice after reduces just like another Key-value paix - extra Reducers (builder) & no need to pass name of nicro-reducer here builden add Case (delete Users, () => } metwin (1) metwin (1)

of thix & is the main stealer when the suit - and also now, we don't to emport that particular micro-reducer from this slice like - export const Edeletersers & = Slice Names actions

no need to export like

secause now our deleteuser is totally independent.

Note: When we used create Action() function in the index file inside 'actions' folder then when we create action object and exported it in a single then & line. so, the left part side is wed for export & import while the argument or string passed in create Actions, method, that string is used in slice file where we write code entra in add case ? function.