React (Day-12)

Redux Toolket Lightes used to stone state & data Le works on data layer of the application.

MOSE: React and Redux are different lebraud.

J. Redux, is not compulsory, et can be used] when there is a vietair, and only I When 1877 ill ocquired.

- premaked of nedex : zuchand, necoil, etc.

- Our application becomes laive to debug very redux Caralley: grédux des tools)

so what exactly, is reduce? so. greders is veed with other Is Ubravies 600, but popularly vsed with great.

-> So, we'll be very Real-Redux & Redux Tooker so, we'll se Manita pides is the older way of withy geldus; " the latest ways by ving

pedeix Tool kit, along with React Redux the

Redux 1001kit is me erandard préact 8 gredux. way to wife pedux loped. state in in

- Redux Louis recoy complicated and visid to come with a huge learning wither with 15 15 word

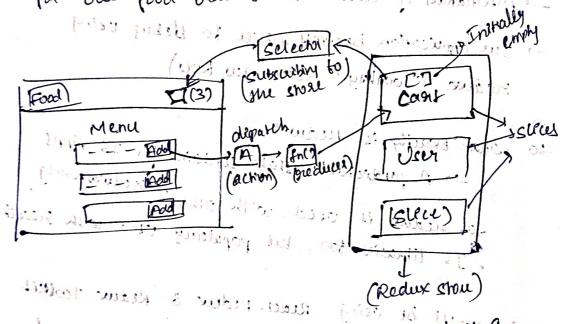
in the close believe the

- Redux Toolkit was created to help address

 Three eommon concerns about Rederx;
 - * Redux chore config is too complicated
 - It Have be add lot of packages to make Redux do anything Oreful.
 - * Redup siquires too much boilesplak code.

* So cets -4mg to moleus and the siedler webitecher:

for our food ordering suppression to



- Pedux stou es beka a beg object mat stour a not et data & staru & allow, all comportents. to access produce me data (stare).
- redux chois devided ento stres for different ou project. Ex: (cast, Usu, Theme, etc)
- we can't update the data on choice directly,

 To we (despatch an action) which calle a

 (neduces function). which will update the data

 on the stort. Ex: Adding event to cart.

- spritarly, we can't gread larieu the data from store directly, we need to (subcaibe to me stone) using a (selector). - Subscribing to me chou means, our component will now be dynamic with the data on the chose & ion be updated with the data Ly hetis say our header subraibes to the Store, men care will show items dynamically from me data received theough me store - ou component well be en syne with me store: on subsuibly to the chose using selectors. -> [Aricin] >1 A which calls Add an action might reduces It dispatches function substracts when we cuck on add button 11 Fly Composited wife would opdate the sua d'ou gildux short Selection Header component K Ou header component beens a which has county is selectories selectories consisted to donat materia eministrel d me sou go, now we will be choing? * Install @ nedw/toolkert and near-grader * Build ou store & Build our store to our app to silce coast elle). se dispatch (action) * selector (subseribe to shore)

```
(onliquity, creating & certify up our erose
                       is the of adjusting of bette the white
- creat a stou: -
                                                                               ushi a Estimi.
           emport frantique story from aquadus set too let.
      constrappeton = configuration (1);
            export defaut appsion;
   D'ap whichaeu component neede she access to store,
          ropph, Proudde Mai de la de la
                                 when it was instance in was
          emport d'espovider y from great-redux!
           emport appsion from total appsion
           const App = () =) d
              // Some loped hooks
                   grehun ( Mei dantes

Providu store = Lappstou) sub 11. ( sous
  12 Blet 10 22/1 Parovidu>
- creat stru, config, inefal state, greducus)
       emport d'exeausier pon Oneduxis/tooket); et
       const constea = containestell Cd
                    name: cout, image of Joy to some
                      entral State: Live have the distribution there is
                                     ofems: []
                                                                                        nois the plan a
                    greduces: 1
                                    add Trem: (esall, altion)=51
                                           grav. Preme. push Calkon payload.);
                                    clearcait; (stare) = 2
                                                    state itims, length = 0;
```

```
export const dadd Item, xlear land j = construe ection;
  export default construsteducer,
 Us Exporting action & reducers
L'actions to vere en components which will
      eventually dispatch & call reducer.
its greduced to add in the appener
  to let apperone l'entral should mas about
    the cartilleid. and policy of some
                    , ide 1332 etc. 1st such i sund sou , oc
 import L configuestore? from and sedus je / koolkit sie
 import carreducer from reassure 35, 11000 1000
  cout appshore = configure should dive and assistances
        cent: contreduction april:
   cont: contreament everes sent meil riedures 600
            11 like mis &
      11 like mis interpeducer series into sus sus of
   expart default app chairman is of which is
             explanation is a sentition on a constant s
  In any warponent, you can vie "celebol!
   Subsaibing to the chall?
  const coursterns = vie Selectri (cochou) => stou. cart. 9 kmi);
     (2001: Ly rlow we cen on mis)
De Using despaich and calling reduce:
    In any component, on any event; we can despatch
      an aetron which well call a reducer.
  const despatch = pre Digratch(); light use Dispatch const hand UAdd I tem = ( etem) => 1
           despatch (add I tem (; tem)); Jadd I tem - que dules
                                       brom cartilles
```

* Now hardle Add Themes can be wild an an. a callback function for any levent begence in a component. 289711 THE A NORTH FAITHFA < button on click = d(c) => handle Adol fem (Plen) }> 27 button des = literation phononiers with the set of the of resulterantible taken NOH: All bridging behoven gieurt & 100 from my sudux Pe done by 'sreat-gredux' . which should SO, we have Provider, use sellett, ose Disparcheofton guar-redux mois francistas button dak All we reduce function the like configure Chou, Creanstice one impared from accounts / toolbit things about sedux; Some importing 1) Be very coveful and conscious while cuscailing to the test store with a control of the part Plens. so change to cart i seme will result in: changing 1 9re- Frencheins our subsuited component. Ex: const const constens = oseSelector (choises show, cart, Flore); - But, of we cubiains to the whole some and - But, Pl then use the cast steme 3-2111/8/18000 12/100 const store = vielleur (choici=) store); doing const courprem = crox: cart. Flem ; might work exactly came as about example pend ist will even wood to fere Hopester adds tenet Hamily

- But there will be a lot of performance. gap behoen me first & second examples.
- In me client one, we are subscribed to she whole store, in so many change to the show (used, them, exciting they wist) well affect our component desulting in unrecessary grender cycles

Li vonich void dégrade out app pirformanu.

- -> So, It is emportant to note that, not should only subsaine to the pair of school mat concerni ora component, "supri" su traffic "
- 2) Prese might be confusion regarding visage de singular physial forms of payroods take action 8 greduci. en store & chee confég. defend those keywords in that way & we should evernember of that way.

- ouduier en exon config

- soudniers en clice vonfig -s rudurer (cantstru. reducer) in export (etil)
- -> actions (cartsuchactions) in expor (evu)
- 3) Peniously (Truditionally) in ranilla Redux, modifying me etale in reducer was prohibited as me-state das inmistable.

so, will hard, to do something, like, add Ilem (Nau, action) =1 L const new State = . [... state]; newstate. atkonspush (achor payload) INI of gichuma newstatis man sice is soit we had to Equal a copy of stall, modity the copy & then seehen the copy from reduce. - But now Pr. redux toolbit, we no longer and mohibited from mutaking the stall. - Infact, we "have" to modify me state. en , sieduces. By the way leven now reduce tool with performs the logic of modifying Promutable stall but the now abstracts that logic verng Immer's will be to the story / Parkage mail allows woods in that cong First Charles is to work with enne vernmutable state in cilies mon convenient coay. - Co rue vohole provens du old way of handling immutable state migredux : ERU carried out, but betiend the scenie. Is we as developer ean directly mutate the sson en the reducer function.

NOH: In the reduce punction, if you want to debug and use console. log to log the Stall, et will gree some object which perit in meadable etream.

Li Proxy (object)

Co, we can log the state on greadable Stream Using " werent"

=> concole, log (current (stati));

Moll: Regarding mutaking the state:

-, we can do it like this (which wrive)

(?) state. Hems. Longth = 0

-1 09 Uke this 600 :-

(ii) giehen fiseme: []}.

I suchuning the updated rature to the Hase.

- but not like this: -

(311) State Premi = []

Li mis will just change me repunne of me weal variable esales to an emply away from the original exall.

(1) Redux des tools (for beller debugging experience Mole: Explore: and & lot of feature & ophony)

(ii) RTK QUERY (for advanced data fetching capability and caching options)