Chap OT - Finding the Path

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Ashraya KK @ ashrayaa

Note:

- Never ocalé a component, inside a component
- · You can compose the component
- · Never unité a usestate inside an if else lon of for loop.
- · UseState is a hook that react gives to create local staté variable inside a functional component. So, never use usestaté outside a functional component (it world make sense).
- · We can use more than one use Effect, according to the usecase.
- To store the images locally, weate a folder assets' & images can be kept inside ut.

H.W:- Why CDN is a greatplace to host images?

CDN is faster. If caches the image It networks very fast and have 100% uptime. It optimises (imgs are already optimized when we put Eg: - 8 wiggy uses CDN into CDN).

SHIMMERUI

Const Shimmer = () =7 { retwin (<div classname = "restaurant-List"> { Array (10). fill (""). map ((e,index) (<div classname = "shimnes cond");

(/div >)))

(/div >))) o version is a hook that sexulps in const Local state variable imide affeilbrins expost défault shimmer;

- NB: A deflican and many mount or mes six a · When you're building an app, be concious about what packages are you using.
- · You should use a big packages when you've complex things to do

Eg:- If you have to brild a lot of big and lengthy forms in your app, in which each and every input box have their own heg Ex check, pattern check, validation etc.

So, instead of building all the components on your own, we can use a package, (npm package), a library) known as :-[FORMIK]. It's a open source library. You anove React-Hook-Form instead of FORMIK. ROUTING - Finding the path of different pages of own

- For that we use a library or npm package called React Router.
- Install this package

mpm i react-router-dom

Make an 'About-js & Contact. js pages To chick the 'About' on homepage and to move to the About page, we first have to create a routing configuration.

-D import {create BrowserRouter} from "react-router-dom";

This is a function we get from react muter-dom It will help us create routing.

-D To create the routing, do:-Const app Router = create Browser Router ([Here, I will element: < Applayout />, define where My app will get loaded with /path". path: "/about", This is where we ireale element: < About /> Routing configuration - Danie Danke There are multiple Routers. Read Doc create Browser Router is the most recommended route for all React Router web projects. This alone work, we need to provide This approcition to over app. For that there is a component Router Provider which is coming from react-router dom. Impost at.

- And render this Router Provider in your App. 15. root render (< Router Browder router = Eapplouty/>); D'react-router-dom' cis a powerful library which shows gives us a better UI for showing us this everor pages. Create an evror page of your own Error is"
and pass this and pass this component to own router config. 2 path: "/", element: < AppLayout />, error element: <Error/>, If there is on ever in the path, it will load the ever element. To show more information about the ever ein the emorpage, react-router-dom' gives us {Use Route Error }. Impost this in Error. js. impost { Use Route Emol from 'react-nowtes-dom'

Use Route Emos is a hook: which won't allow that red-colour evver to come in consoles It catch all the nouting evers and we can Show those error to the user. From 12 10 10 miles on 30 south small impost & use Route Error } from "react-router-dom"; const Emr = () => { and any has Const err = Use Route Error (); const 3 return (<div> < h1 >00ps / Something went wrong </hD Zn27
{err.status +":"+err.statusText} </h2> ein the enorpage </ri> expost default Error;

- Problem with anchor tag

It will reload the entire page when it is clicked. It disrupts user experience and can result un a Slower page load time. This cause problems for Single-page applications (SPAs)

Single Page Applications (SPA)

- D'Keact apps are SPAS

-D Having SPAs will not reload, It will not make network call when we are changing pages

-DLoads a single HTML page and dynamically update the page in response to user interaction without reloading the entire page.

This approach allows for faster navigation and a more seamless user experience.

Two types of Routing

O Client-side nouting ② Server-side nouting

Server-Side Louting

I all our pages come from Server.

I make a network call, get the html, is, css
and loads the whole page.

Client-side Rowling - Daynamically update content of SPA in response to change in URL.

Do don't do full page reload. - React-nonter dom' gives { Link} Import { Link from "react-router-dom"; < Link to = "/about" > About 4/liz </Link> DTo keep Header & Footer Stick on to every page, Change the routing config. ie, to make the about page children of 2 App Layout / 7 do 3 7 Const appRouter = create Browses Rouses ([element: < App Layout/>. error element: < Error/7 children: [2 path: "about" element: < About />,

-> Const Applayout = () => ? < Header > <Outlet/> < Footer/> -> React-nouter-dom gives auess to Outlet. This outlet will be filled by the configuration. So, all the children will go inside Outlet. awarding to the noute. DYNAMIC ROUTING -> process of rendering components cin response to a change in the application's URL. > If the route to restaurant menu page is like path: "/restaurant/:id" dignamic element: LRest Menu/> Cit can be anything)

To read the 'id' passed in URL, react-vonter-dom' gives us { use Params }. It's the nouting parameters. Const Rest Menu = () => } const params = UseParams (); const {id} = params; return (to Eid} <div> <h17 Restaurant id: 1234 4/h17 <h27 Namasle 4/ h27 2/div export default Rest Meny; I We will be having the id Inside params. Making am API call in Restaurant Detail Page: 7 Use Effect(€) => { getRestaurant Info (?; 3,[]);

```
async function get Restaurant Info () 3
      const data = fetch ("https:// "tid);
       const json = await -dd data json ();
-> < Rest Menu/> component, at last will be like 87
      import { use Effect, use State} from "react"; import { use Porrams } from "react-router-dom";
      impost { IMG-CON-URL from "../constants";
      impost Shimmer from "./Shimmer";
      Const Restaurant Menu = () => {
         const {resId} = useParrams();
          const restaurant, set Restaurant = use State (null);
           vseEffect(() \Rightarrow 3
                 get Restaurant Info ();
             g, []);
          async function getRestaurant Info () {
             const data = await fetch (
               "https://www.usl="+ resId);
              const json = await data json ();
          3 setRestaurant (json. data);
```

```
return [restaurant ? ( < shimmer/>): (
  Zdiv>
    <h1> Restaurant id : {resId} < h1>
     < h2> { restaurant. name } < | h27
      < h3> { restaurant. area } < | h3>
       < h3> {restaurant. city } < / h37
      < h37 { restaurant. augRahng} </h3>
  import [IMGI_CON_URL] from ". Svib/> 13"
    <a href=" " remained from " , shipman " , Vilos
      <h1> Menu </h1>
      <l
       3 Object. values
           restaurant 2. menu 2. items).
           .map ((item) => (
            Key = { item. id } > { item. named 
      export default Restaurant Menu;
```