## 7. Finding The Path

useEffect

How useEffect called?

```
import { LOGO_URL } from "../utils/constants";
import { useState, useEffect } from "react";

const Header =() =>
{
    const [btnName, setbtnName]=useState("Login ")

    useEffect(()=> {},[]);
```

Every time when component render useEffect called

Dependency array changing the behaviour of it's render

In the useEffect dependency array is not mandatory only callback function is mandatory

```
//if no dependancy array => useEffect is called on every render
//if dependancy array is empty = [] => then useEffect called on only initial render (just once)
// if dependancy arrat is [btnName] => called every time btnName is updated

useEffect(()=> {
   console.log("useEffect called");
},[btnName]);
```

Dependency array Not mandatory field

```
If Don't put - render every Time when component render

If Empty - called on only initial render( just once when component render first time)

If put something - only called when dependency changes

Eg . if our dependency is on btnName so every time btnName

changes our useEffect will called
```

#### useState

Best practises:

Never create the useState outside the component
Always call the useState on the top
Never use our useState hook or create your state variable inside the if else
Never create the useState variable inside the if else statement or inside the condition or inside the normal function

#### React-router DOM

Installing React-router-DOM command:

```
npm i react-router-dom
```

### 1. Import createBrowserRouter

## 2. Routing Configuration

Import browser router, it's take list of path Path is nothing but object and it contains two things

- 1. Path
- 2. element

We don't have about us page so just create Page means a big component and it has collection of components

```
import {createBrowserRouter, RouterProvider} from "react-router-dom";
```

RouterProvider is provides to this routing configuration to our app

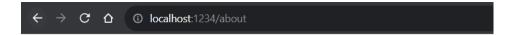
Earlier we rendering our AppLayout directly

```
const root = ReactDOM.createRoot(document.getElementById("root"));
root.render(<AppLayout/>)
```

Now instead of this we will write

```
const root = ReactDOM.createRoot(document.getElementById("root"));
root.render(<RouterProvider router={appRouter}/>)
```

So after putting that path it's working



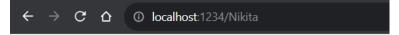
## **About Us**

Food Ordering Application by Nikita!

```
← → C · ① localhost:1234/contact
```

## **Contact Us**

/any path



# Opps!!!

**Something Went Wrong!!** 

Import all components in app

React -router-dom gives the access of hook is useRouteError

Whenever we see a Function starting with use that means it's hook

Using the useRouteError giving the more information of error

```
Opps!!!

Something Went Wrong!!

404: Not Found

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```

### Revision of error

If we have Error component give the

- 1. Path
- 2.errorElement

If this path has error it will catched it and show on the page

## Puting Configuration inside the children

Whenever their is the change in the path so this outlet will be filled with the children according to the path

We trying to build this

```
{/* if path="/" */}
<Body/>
{/* if path="/about" */}
<About/>
{/* if path =/contact */}
<Contact/>
```

So when '/' then body will be filled in the outlet , When '/about' then About will filled in outlet and similarly Contact also filled in the outlet

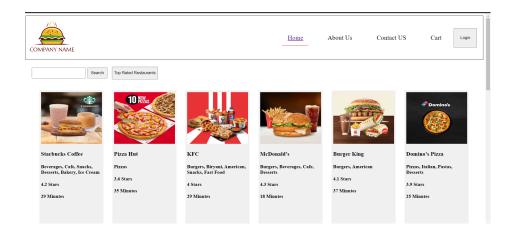
## app.js

Outlet is filled with the component that is passed as children into parent (appLayout)

Outlet will be replaced by Another component according to the path

## Header.js

Never use anchor tag here because



When we clicked on that page whole page will get refreshed

Their is magic that we do in react

We don't want to refresh our whole page but still we move to new route

We can navigate to the new page without reloading the whole page

We can navigate to different page without reloading the whole page

## Header.js

```
import { LOGO_URL } from "../utils/constants";
import { useState } from "react";
import { Link } from "react-router-dom";
```

Link component work exactly same as anchor tag but our whole page will not refreshed

It's does not reload the whole page it's just fetches the data or changing the components

That's why our application are known as single-page-Application

There are two types of Routing in Web Applications

- 1.Client side Routing
- 2. Server side routing

#### **Server Side Routing**

We have index.html and all html css Javascript files

And when we click on anchor tag it will reload whole page

When we click on anchor tag of html file Its make network call , fetches that html and render on the page , that is server side Routing

Means we make network call and that page suppose about.html) coming from server that is server side Routing

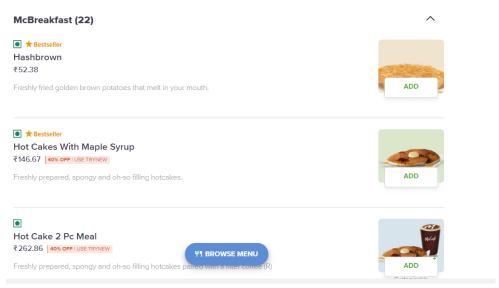
## **Client side Routing**

Using react in Link tag is Client side Routing we are not making any network call Because all the components are already loaded into our app , when we load the app for the first time it already has the code for About Us , when we go to about Us page it's just loads that components it's not making network call

It's only network call made when we Fetch the API , we not fetching new page so that's why it's known as Client side Routing

## **Dynamic Routing**

We trying to making like this page



Creating RestarantMenu Component

## creating/adding one more route

Here we want this id should dynamic According to the restaurants it should be changed



Here instead of menu we want Actual restaurant data for that need to fetch from API

#### Fetch the data

Store the data - useState [so whenever state variable update it will automatically update the UI]

### Fetch the data

```
useEffect(()=>
{
    fetchMenu();
},[])

const fetchMenu= async()=>{
    const data= await fetch(
        "https://www.swiggy.com/dapi/menu/pl?page-type=REGULAR_!
);
    const json = await data.json();
    console.log(json);
};
```

Store the data - useState

```
const [resInfo, setResInfo]=useState(null);
```

## Showing Shimmer UI

## Showing data on UI

Need to destructure this

### Destructuring

```
const {name,cuisines,costForTwoMessage } = resInfo?.cards[0]?.card?.card?.info
```

#### Problem:

```
Initially resinfo is null
const [resInfo, setResInfo] = useState(null);
```

And we finding name inside it so it's giving error So getting this error

#### Solution:

```
const { name, cuisines, costForTwoMessage } = resInfo?.cards[0]?.card?.card?.info;
if(resInfo===null) return <Shimmer/>;
                   <div className="Menu">
                                                        {cuisines.join(", ")} - {costForTwoMessage}
                                                                                                                                    Rice
                                                                                                                                      Rice () 11/2 (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2) (11/2)
```

## Paste this line on top like this:

```
if(resInfo===null) return <Shimmer/>;
const { name, cuisines, costForTwoMessage } = resInfo?.cards[0]?.card?.card?.info;
return(
  <div className="Menu">
     h1>{name}</h1>
      {cuisines.join(", ")} - {costForTwoMessage}
             Rice
             Biryani
             Diet Coke
```

## For dynamically showing items on GMA



#### McDonald's

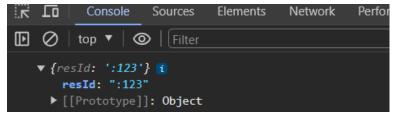
Burgers, Beverages - ₹400 for two

- Hashbrown
   Hot Cakes With Maple Syrup
   Hot Cake 2 Pc Meal

Here iterating from itemCards we can use map function

Here in api url only difference in restaurant ID

So we need to read (use) resID so for that we use **useParams** Hook



So params is an object with this resID

So instead of param we can write resID (destructuring)

```
import {useState, useEffect } from "react";
import Shimmer from "./Shimmer";
import {useParams} from "react-router-dom";

const RestarantMenu=()=>
{
    const [resInfo, setResInfo]=useState(null);

    const params=useParams();
    console.log(params);

    useEffect(()=>
        {
            fetchMenu();
        },[])
```

Pass API url instead of restaurantId number pass resId

### Before

```
72.8296252&restaurantId=<u>23663</u>&catalog_qa=undefined&submitAction=ENTER"
```

#### After

```
16&lng=72.8296252&restaurantId="+resId+"&catalog_qa=undefined&submitAction=ENTER
```

Link is a component which is giving to us by react router dom which is special component and behind the scenes Link is using anchor tag

("https://www.swiggy.com/dapi/menu/pl?page-type=REGULAR\_MENU&complete-menu=true&lat=19.2183307&lng=72.9780897&restaurantId=221810&catalog\_qa=undefined&submitAction=ENTER"

We need to Link all restaurant so put Link tag

```
JS RestarantMenu.js U

JS RestarantMenu.js U

JS Body.js U X

JS constants.js U

JS Header.js

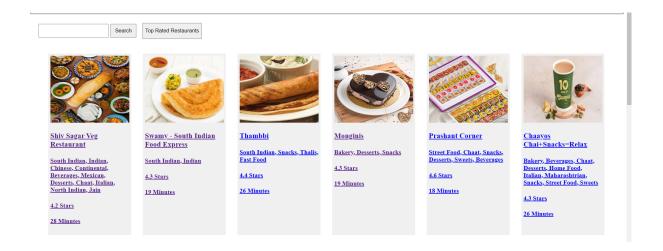
7.Finding The Path > src > Components > JS Body.js > [@] Body > ② FilteredRestarants.map() callback

1 import RestaurantCard from "./RestaurantCard";

2 import {useEffect, useState} from "react";

3 import Shimmer from "./Shimmer";

4 import { Link } from "react-router-dom";
```



Now able to go particular restaurant menu page