



Episode 5 - Lets Get Hooked



Best Practices

- 1) Keep code in separate files
- 2) Don't write all the code in one file
- 3) All the code of a project is kept in src folder.
- 4) Whenever you have a hardcoded data don't keep it in the same file as a component
- 5) Don't keep the image src link in the component file. Create a separate file in utils/common folder

```
const CDN_URL = "https://...."  
const LOGO_URL = "https://...."
```

Snake Case

Types Of Exports

- 1) Default Export → In a file it can be written just once to export one main function
Eg :- export default Button;
- 2) Named Export → For multiple exports Named export is used
Eg :- export { PrimaryButton, SecondaryButton };

More Examples

Default Export / Import :

```
export default component;  
import Component from "path";
```

Named Export / Import :

```
export const Component  
import { Component } from "path";
```



React Hooks

React Hooks is a normal javascript function which is given to us by react which comes with some superpower

useState() → Superpowerful state variable

const [list, setList] = useState([])

↑ ↑

state variable state function

Filter on Button click

const [listOfRestaurant, setListOfRestaurant] = useState([{"..."}, {"..."}])

<button onClick={()=>{}}

 const filteredList = listOfRestaurants.filter(
 (res) => res.data.AvgRating > 4
);

 setListOfRestaurant(filteredList);
 }}

Data from api or
Hardcoded Array of objects

A normal JS variable will not update the UI but a JS state variable does.
It will keep the UI in sync with the variable. It will re-render the dom
very fast with that component

React Algorithm

Reconciliation Algorithm → It will be used whenever there is some change
in UI

Whenever you have something in UI react create a Virtual UI for it.

Virtual DOM is a representation of actual DOM in the form of a JS Object

The overall React Element gets converted into an Obj which is the
Virtual DOM

Diff Algorithm → It finds out the difference between 2 Virtual doms -
The updated Virtual DOM and the previous Virtual DOM
Then re-renders it & update the actual dom

Incremental Rendering

The ability to split rendering work into chunks & spread it out over multiple frames

Why React is fast?

Because it is doing a lot of efficient dom manipulation because it has a virtual dom. It can efficiently find the difference between 2 virtual dom and update only the changed portion in the actual dom using Diff and Reconciliation Algorithm.

Other ways of Writing useState Hook

```
const arr = useState(reslist)
```

```
const [listOfRestaurants, setListOfRestaurant] = arr
```

// This is array destructuring

Or

```
const arr = useState(reslist);
```

```
const listOfRestaurants = arr[0];
const setlistOfRestaurants = arr[1];
```



One way data binding

The data can come from or update from one place but not from the other way

Eg. Can send a value to input from code but can't update the input from UI when using a JS variable instead of state variable

What is a hook?

Hook is a normal function. Like useState hook returns an array first element of array is state variable and second element is a state function



Search logic

// Code

```
function filterData( searchText, restaurants ) {  
    const filterData = restaurants.filter((rest) =>  
        rest.data.name.includes(searchText)  
    );  
    return filterData;  
}  
  
filterData(searchText, Restaurantlist);
```

Shimmer VI

// Code

```
{ Array(20).fill().map((s, index) => {  
    return (  
        <div>  
        </div>  
    )  
})  
}
```

Style the Div
Accordingly

