

Let's Get Hooked

Best Practice in Industry to make different files for different component. Not in one App only.

* Try to make the Component file exact as component Name.
It will help others to understand.

* Some developers used `.jsx`^{extension} for component but it hardly matters use `.js` or `.jsx` extension whatever you want. `.js` we will use here.

* After creating different components ~~for~~ files for diff. diff. component. Now where we using that component (in App.js) Now we have to import e.g. Header.js file in App.js.

Before importing we have to export Header files first so that we can import.

* export default Header;
↳ Name of component.

Always first export then import

{ We have two ways of exporting }

import Header from './component/Header';
↳ path of that component.

* Body and Restaurant Card is at same level. So path when we import restaurant card in Body path changes.

* We can import anywhere to and export to anywhere.

* Whenever You have hard coded data never ever put that data in component file.

Also hard coded string should not be in component file.

You can use const.js or utils.js or config.js file.

* It's good habit to use all the constant name in Capital letters.

There are two ways of exporting.

- ① default export which we have seen → In one file only 1 default export is allowed.
- ② Second way is used when we have to export multiple things from single file

Named Export.

```
export const CDN_URL = "...";
```

Importing a Named Export.

```
import { CDN_URL } from "../utils/components";
```

↓
need to use { } when importing named export because CDN_URL is JS variable.

React Hooks

Normal JS utility function.

Two most used Hooks are:-

- useState() → Used to Generate ~~Super~~ powerful state variables in React.
- useEffect()

* Use State

To use this we have to import from React.

Named Import should be used to Import use State.

import { useState } from "react";

Creating state variable → it maintain state ☒

React Variable → ~~use~~ const [listOfRestaurants] = useState([]);

Normal JS variable → let listOfRestaurants = [];

use state gives array as result on calling.

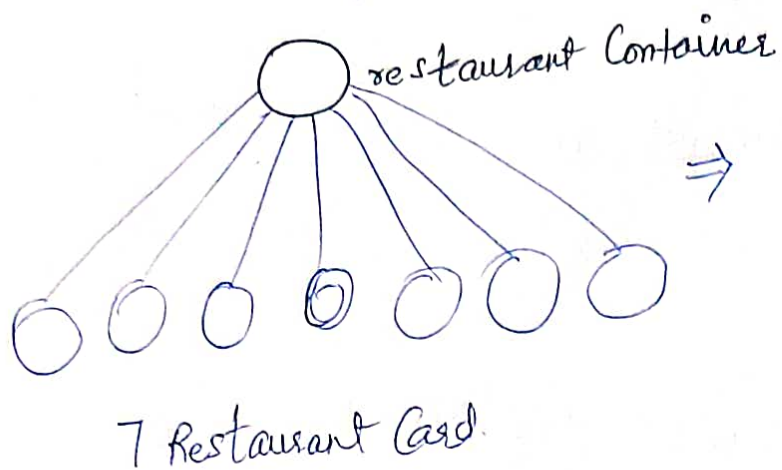
Whatever we pass will take variable

→ We can use React variable like Normal JS variable
const [listOfRestaurants, setListOfRestaurants] = useState([]);

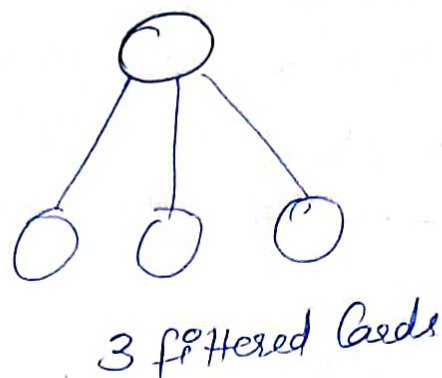
Whenever a state variable updates React re-renders its component

React is keeping Your UI layer in Sync with Data layer.
That's why React is fast.

Reconciliation Algorithm : (React Fiber) → React 16 →



⇒



Virtual DOM

It is a representation of Actual DOM.

<div>

<div>

!

→ Actual DOM.

{ Virtual DOM.

div

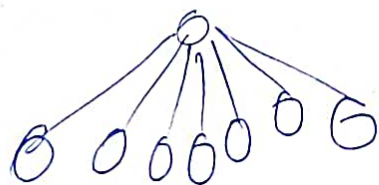
==

}



Diff Algorithm

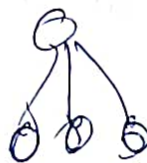
It finds out the difference b/w two Virtual DOM and then updates the UI.



7RC

OnClicked

⇒



3RC

* React is fast because it is doing Efficient DOM manipulation.
React can efficiently find out the difference b/w Virtual DOM
and updates the UI.
↓
by diff Algorithm.