EPISODE 5: LET'S GET HOOKED

- We can build everythinng we built in react using html also.
- But in react we can build it with less code.

PART 01:

In this part we will clean all the mess in code of episode 4.

lets seperate each component into differnt file

TYPES OF EXPORT:

Default Export:

- For every component there is only one default export.We export at end of the component.

```
> components > JS Header.js > default
1    import { LOGO } from "../utils/constants";
2
3  v const Header = () =>{
4  v     return(
5  v        <div className="header">
6  v            <div className="logo">
7                    <img id="logo" src={LOGO} alt="logo"/>
8                </div>
9  v            <div className="nav-items">
0  v              <ul>
1                      <li>Home</li>
2                      <li>About us</li>
3                      <li>Contact Us</li>
4                      <li>Cart</li>
5                  </ul>
6
7                </div>
8
9            </div>
0        )
1    }
2    export default Header;
```

Naming Export:

- We use it when we need to export more than one variable or component from a file.

```
export const RECIPE_IMAGE = "https://media-assets.swiggy.com/swiggy/image/upload/fl_lossy,f_auto,q_auto,w_660/"
export const LOGO ="https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQwv45iAbWWwD5glterGTBIO6Q6pnjukcFkGw&usqp=CAU"
```

We can even use naming export for Components but we prefer default export.

TYPES OF IMPORT:
Default Import:
Syntax:

import Component from "path"

```
import ReactDOM from "react-dom/client";
import Header from "./components/Header";
import Body from "./components/Body";
```

Naming Import :
Syntax:

import { Variable } from "path"

```
import { data } from "../utils/data";
```

PART :02

REACT HOOKS:

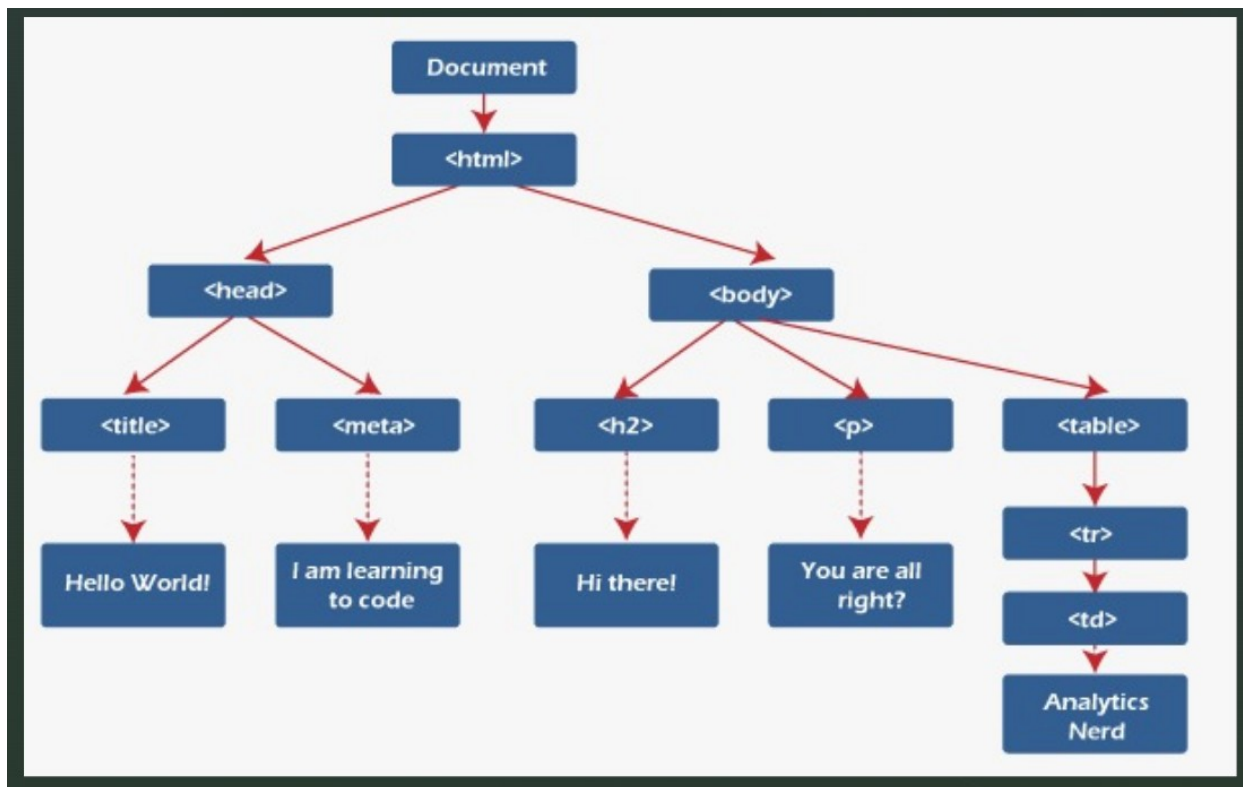React hooks are the normal javascript utility functions

1.useState() :
- used to create state variables(scope is inside that particular component)
- Whenever the state variable updates the react rerenders the component
- **RECONCILATION ALGORITHM(REACT FIBRE):**
- React uses reconcilation algorithm
- In React16 a new algorithm is came out to update the DOM it is <mark>*RECONCILATION ALGORITHM*</mark>
- *DOM* is nothing but the html structure.The below structure is DOM

- React have **virtual dom** , virtual dom is nothing but the object form of the actual DOM
- This virtual dom is used to update the UI that matches the most recent tree.
- Whenever the state variables are changed the virtual dom is also changes , it checks the previous dom with the new dom and only

- the differences between the doms can be found with the help of diff algorithm.
- React is faster because of efficient dom manipulation
  syntax of useState:
  const [variable,setVariable] = useState('')
- variable holds the value.
- SetVariable changes the value whenver this is done the reconcilation is happened with the help of diff algorithm.
- const [variable,setVariable] = useState('') it is nothing but the array destructiong
  ex: const arr = useState(data)
  const [variable,setVariable] = arr