Part 1

We should make separate files for each component

Folder structure.

Create directory name : src and put all code there.

As per norms (not necessary but due to society)

Create a directory name with components and place all components place in it.

We can use any extension it hardly matter initially

.js

.jsx

.tsx anyone we can use

But we are doing it now with

**.js** only

When we break the components in separate file

We have to import those methods like we imported the react in the first line to use them.

To use this file we have to import. And to import we have to export that function from the separated file we create.

Components

* Header.js
  + Import React from react
  + Const Header = () =>{}
  + export default Header;
* App.js
  + Import Header from ‘./components/Header’

We should not keep hard-coded data in the components file. (hard coded means data) .

2 types of exports

1. Default export (export only 1 file and write in the end)
2. Named export. (Export more than 1 variable, we have to write export with each function.

We can call default export like

Import React from ’react’

And name exports like (in curly braces)

Import { Menu } from ‘react’.

Can we use default export at the time of definition?

Part 2 Hooks

React Hooks

They are just normal js utilities function.

* useState
* useEffect

These are two most important hooks

There are more

* useReduce

**useState**

Scope of state variable: inside the component only in which that state is defined.

How to use it?

const listOfData = {‘a’,’b’,’c’}

This is normal js variable.

Same thing we can define with help of React hook useState.

Const [ listOfData ] = useState({‘a’,’b’,’c’})

Both are almost same

But when its come to update the values

When we will update the value of js it wont reflect on the dom directly.

Where as if we update the state variable then it will render the UI and reflect the changes immediately.

For that we have to pass another method with same name but adding set as prefix.

Not compusalty but just norms.

Reconciliation Algorithm (React Fiber)

Virtual dom is representation of Actual dom.

What is actual dom. Which contain all html tags is Dom.

React create a replica of dom that is called Virtual dom.

We perform optrations on virtual dom.

Virtual dom is actually react elements (JS Object) we have created.

Diff Algo

Find the Difference between old virtual dom & New old virtual dom.

So React Follow Diff Algo.

Like initially we showed 10 hotels then we filtered to 4, 6 hotels removed.

When you click react to remove data from the virtual dom, then it will compre the code

And differences of the code will be updated on origin DOM.

This complete process is known as React Fiber.

In React 16.

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Why react is fast?

Because it have dom manipulation. It use Diff Algorithm.

Const [a, setA] = useState(‘1’);

This is array di Structuring.

We can also do like

Const abcd = useState(1);

Const [a, setA] = abcd;