

React

* Overview & Introduction to React →

- Definition → A javascript library for building user interfaces:
↓
basically means front-end
- Was developed at Facebook in 2011.
→ Made Public in 2013.

* Features → ① Declarative
② Component Based
③ Learn Once, Write Everywhere
④ Single Page apps...

* There are two types of Programming →

① Declarative → We are just bothered about what work is to be done and not how it is been done.

② Imperative → We are more into that how that particular work has to be done.

→ `document.querySelector("h1").style.color = "red";`

Previously we used to do →

* var head = document.createElement("h1");
head.textContent("Main heading");

XX — This is imperative — XX
Programming.

Every detail is been provided how are we creating an element, how the text is been written for that element.

But,

In react,

we simply return the value inside the function.

return (<h1> main heading </h1>)

~~JSX~~
Combination
of JS and HTML

② Component - Based...

→ Suppose we have a header in a website and it consists of six different pages, so in order to get that same header in all 6

Page No. _____
Date. _____

Pages we will be writing the same code again and again. So, in order to avoid this we use "Components".

- We will create one header-component with all the detailing present inside it and we will be using that 'header-component' in all the other pages as well.
- It provides us code-reusability, due to less no. of code it will execute much faster. Cleaner code.
- Now, if we want we can have a component inside a component as well.

* for ex → Header Component can have Header Menu Component or Header search Component acc. to the use case, and then that particular component can be used as per the user requirement.

③ Learn Once, Write Everywhere.

React JS
(Web development)

React Native
(App-development)

Q) Single-Page Apps → We just have a single page and rest of the things are done with javascript only. (i.e., all navigation is been controlled by JS).