**REACT – COMPONENTS, STATE, PROPS**

* What is components in react? Explain the difference between functional components and class components.

Components are in dependent and reusable bits of code. They server the same purpose as javaScript functions, but work in isolation and return HTML. Components come in two types, class components and function components, in this tutorial we will concentrate of function components.

**Functional component**

* Functional components is a plain javascript, you do not have a choice to set the state in functional component.
* There is no render function we are using in functional components.
* Functional components only accept the props as an argument.
* Functional components are sometimes called stateless components.

**Class Component**

* Class components we have a feature to set the set state in component.
* In class components, we have a render function which is use to return the react element.
* In class components, we have both options use the props and set the state also.
* Class components are sometimes called stateful components.
* Explain the concept of state in react and how it is used to manage componentdata.

In react, state is a javascript object that stores data about a component and how it should render. State can change over time in response to user actions, system events, or other factors, and when it does, the component re-renders. This allows developers to create interactive UIs by enabling components to respond to user input.

* **State initialization:** the usestate hook is used to initialize state, and an initial value can be provided.
* **State updates:** the setstate function is used to update the state of a component.
* **State management:** some state management libraries for react include redux, recoil, and Mobx.
* **Component re-rendering:** react only re-renders the parts of the page that have changed, which helps avoid unnecessary re-rendering.

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