REACTJS

1. PROPS:-

Props are arguments passed into Reacts components. We use props in React to pass data from one component to another i.e. From a parent component to a child component. Props stands for properties. It is read only.

1. COMPONENT LIFE CYCLE:-

Like humans, React Components do go through a defined lifespan of birth, life and death. This is known as life cycle of a react component. There are 3 main phases in the life cycle of a react component.

1) Mounting

2) Updating

3) Unmounting

1) Mounting: -

The Mounting phase begins when a react component instance is created and ends when it is inserted into the DOM.

2)Updating: -React has five built-in methods that gets called, in this order, when a component is updated:

* getDerivedStateFromProps()
* shouldComponentUpdate()
* render()
* getSnapshotBeforeUpdate()
* componentDidUpdate()

The render () method is required and will always be called, the others are optional and will be called if you define them.

## 3)Unmounting:-

The next phase in the lifecycle is when a component is removed from the DOM, or *unmounting* as React likes to call it.

React has only one built-in method that gets called when a component is unmounted:

* componentWillUnmount()

**HIGHER ORDER COMPONENTS**

A higher-order component (HOC) is an advanced technique in React for reusing component logic. HOCs are not part of the React API, per se. They are a pattern that emerges from React’s compositional nature.

Concretely, **a higher-order component is a function that takes a component and returns a new component.**

const EnhancedComponent = higherOrderComponent(WrappedComponent);

Whereas a component transforms props into UI, a higher-order component transforms a component into another component.

HOCs are common in third-party React libraries, such as Redux’s [connect](https://react-redux.js.org/api/connect) and Relay’s [createFragmentContainer](https://relay.dev/docs/v10.1.3/fragment-container/" \l "createfragmentcontainer" \t "_blank).

In this document, we’ll discuss why higher-order components are useful, and how to write your own.