**Functional Components vs Class Components**

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| **Functional Components** | **Class Components** |
| A functional component is just a plain JavaScript pure function that accepts props as an argument and returns a React element(JSX). | A class component requires you to extend from React. Component and create a render function which returns a React element. |
| There is no render method used in functional components. | It must have the render() method returning JSX (which is syntactically similar to HTML) |
| Functional component run from top to bottom and once the function is returned it cant be kept alive. | Class component is instantiated and different life cycle method is kept alive and being run and invoked depending on phase of class component. |
| Also known as Stateless components as they simply accept data and display them in some form, that they are mainly responsible for rendering UI. | Also known as Stateful components because they implement logic and state. |
| React lifecycle methods (for example, componentDidMount) cannot be used in functional components. | React lifecycle methods can be used inside class components (for example, componentDidMount). |
| Hooks can be easily used in functional components to make them Stateful.  example: const [name,SetName]= React.useState(‘ ‘) | It requires different syntax inside a class component to implement hooks.  example: constructor(props) {     super(props);     this.state = {name: ‘ ‘}  } |
| Constructors are not used. | Constructor are used as it needs to store state. |