

Lists , Hooks , Api Project

1) How do you render a list of items in React? Why is it important to use keys when rendering lists?

- The key attribute helps React identify which items have changed, are added, or are removed. To give the elements in the array a consistent identification, keys should be assigned to them.

2) What are keys in React, and what happens if you do not provide a unique key?

- React uses the index value of each item as a default.

3) What are React hooks? How do `useState()` and `useEffect()` hooks work in functional components?

- Hooks allow function components to have access to state and other React features. `useState` is used to manage state within a component, allowing you to store and update data. `useEffect` is used to perform side effects in a component, such as updating the document title, fetching data, or subscribing to events.

4) What problems did hooks solve in React development? Why are hooks considered an important addition to React?

- Hooks allow users to encapsulate and reuse logic across different components without using higher-order components or render props, leading to cleaner and more modular code.

5) What is `useReducer` ? How we use in react app?

- React `useReducer()` hook is a state hook used often as a versatile alternative to `useState()`.

6) What is the purpose of `useCallback` & `useMemo` Hooks?

purpose of the useCallback hook is to prevent unnecessary renders in your React application. useMemo used to communicate something of immediate importance to people within a business or organization.

7) What's the Difference between the useCallback & useMemo Hooks?

- useMemo is used to memoize values or computations, helping to optimize expensive calculations or data transformations. useCallback is used to memoize callback functions, reducing unnecessary re-creation of functions and optimizing component re-renders.

8) What is useRef ? How to work in react app?

- React, useRef is a hook that allows you to create a mutable reference object. This object can be used to access and manipulate DOM elements, store values that persist across renders without triggering re-renders, and more.

9) What is the Context API in React? How is it used to manage global state across multiple components?

- React Context API is a feature that allows you to share data across the component tree without having to pass props down manually at every level.

10) Explain how createContext() and useContext() are used in React for sharing state.

- To share state across React Components with Context we will first create a context with createContext Method. We will be using the useContext() hook to access and modify the state in the child components.