

TOP 10 **REACT** INTERVIEW QUESTION!



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1. What is React? State some of its key features.

React makes it painless to create interactive UIs. Design simple views for each state in your application, and React will efficiently update and render just the right components when your data changes.

Some of the key features of React are:

- React is used for server-side rendering.
- React has uni-directional or one-way data flow or data binding.
- React makes use of virtual DOM instead of the regular or real DOM.
- A Component Using External Plugins

2. What are the advantages of using React?

- React helps enhance the performance of a web or mobile application.
- React can be used on the server as well as on the client-side.
- It used JSX code which increases the code reliability and understandability.
- React can be integrated with other frameworks like Angular, Meteor, and more.
- Writing UI test cases for React is very easy

3. Explain Virtual DOM in React?

Virtual DOM is an abstraction of the **HTML DOM**. It is lightweight and is not connected to the browser-specific implementation details. React provides Virtual DOM for free as the React Elements reside in virtual DOM.

These elements make up the basic nodes of the Virtual DOM tree. Once the React Elements are defined, they can be rendered into the real DOM.

4. What is JSX?

JSX stands for JavaScript XML. It is a syntax extension of JavaScript and has all the properties of JavaScript. Any JavaScript expression can be used in JSX by containing it in curly braces.

When it is compiled, JSX elements become regular JavaScript objects. You can use JSX in any statement, loop, to assign values, input arguments, and return functions.

5. What are the lifecycle methods of React Components in detail?

- `componentWillMount()`
- `componentDidMount()`
- `componentWillReceiveProps()`
- `shouldComponentUpdate()`
- `componentWillUpdate()`

6. What is the difference between state and props?

The state is a data structure that starts with a default value when a component mounts. This data structure can be mutated over time as a result of user events.

Props are short for properties and are the configuration of a Component. It is the way in which components communicate with each other.

7. What are Controlled and Uncontrolled Components?

Controlled Components are those which take the current value through props and notify the changes through callbacks like `onChange`.

The Uncontrolled component is one that stores and manages its own state internally. When you need the current value of the component you query the DOM using a `ref` and retrieve the value.

8. What do you mean by HOC?

HOC stands for higher-order component. It is an advanced technique in React that allows us to reuse component logic. HOC is not a part of the React API, it is a pattern that emerges from React's compositional nature.

HOC allows you to reuse code, logic, and bootstrap abstractions. Third-party React Libraries usually contain HOCs. Other than sharing utility libraries and simple compositions, HOCs are also used to share behaviour or properties between React Components.

9. How do you pass data to React components?

There are 2 main ways of passing data to React components:



Props



Context API

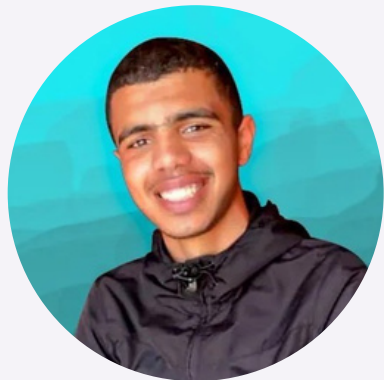
10. What is an event in React?

An event is an action that a user or system may trigger, such as pressing a key, a mouse click, etc.

- React events are named using camelCase, rather than lowercase in HTML.
- With JSX, you pass a function as the event handler, rather than a string in HTML.



```
<Button onPress={lightItUp} />
```



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