React Interview Questions
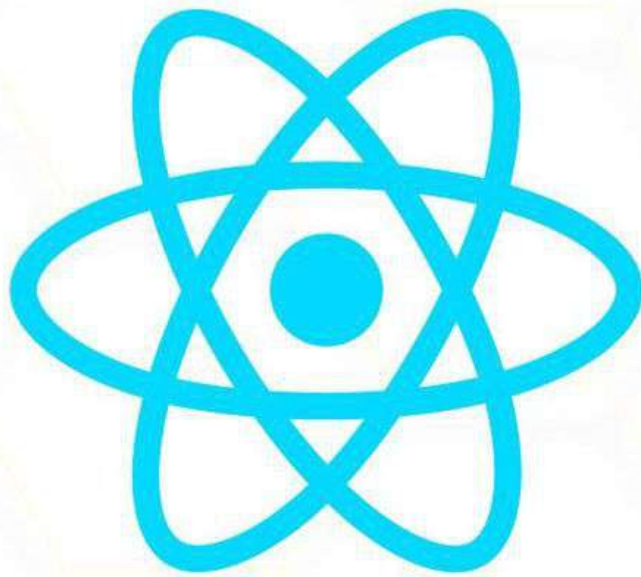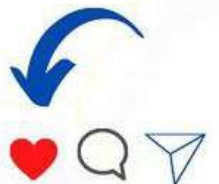
Can you explain the concept of data dependency injection in React?

- Data Dependency injection in React refers to the practice of providing a component with data it needs via its props, rather than component fetching or generating it itself.
- This approach can help to make components more reusable and easier to test by decoupling them from their data dependencies

Can you explain the purpose and use of Context API in React?

- The Context API in React is a way to pass data through component tree without having to pass props down manually at every level (to avoid prop drilling)
- It allows components to access data that is "out of reach" of their parent-child hierarchy.
- The Context API consists of a **Provider** component, which provides the data, and **Consumer** Component , which consumes the data.

is the shadow DOM the same as Virtual DOM?

- No, the **shadow DOM** is a separate DOM tree that is attached to an element and is not accessible to the main dOM tree.
- It is used to encapsulate the style and behaviour of a web component, making it easier to maintain and reuse.
- **The Virtual DOM** on other hand, is an in-memory representation of actual DOM that is used by React to optimize DOM Manipulation and improve performance.

Can you describe the constructor in React Component and its purpose?

- The constructor in a React component is a special method that is called when a new instance of the component is created.
- It is often used to initialise state and bind event handlers.
- The constructor is defined by a class based component and is called before component is mounted.

Can you list some common lifecycle methods in React?

- **ComponentDidMount:** this method is called after a component has been rendered to the DOM. It is often used to trigger network requests or set up subscriptions
- **shouldComponentUpdate**: this method is called before a component re-renders and can be used to optimize performance by returning false if the component does not need to update
- **componentWillUnmount**: This method is called before a component is unmounted and destroyed. It is often used to clean up subscriptions and network requests

Can you list popular React Libraries on which you get chance to work?

- **Redux**: a state management library for React that helps to manage global state of React Application
- **Moment**: A library for manipulating dates and times in a React Application
- **Axios**: A Library for making HTTP requests in React Application
- **React Router**: A library for declaratively managing client side routing in a React Application
- **React Bootstrap**: A library for using Bootstrap component in a React application
- **Formik**: A library for building forms in React

Can you explain the purpose of ref attribute in lifecycle of a functional component in React?

- The **ref** attribute in React is used to store a reference to a DOM element.

- It can be used to access the properties of the element, such as its value or checked state or to invoke methods on the element.

- In lifecycle of a functional component, **ref** attribute can be used to access the DOM Element after it has been rendered
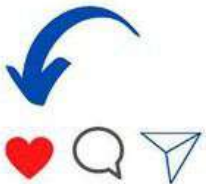
Hope you liked it.

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Teaching is my passion so just following that by sharing my knowledge

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