1. What is the use of ref in React?

Refs are a function provided by React to access the DOM element and the React element that you might have created on your own.

1. What is prop drilling and its disadvantages?

Prop drilling is basically a situation when the same data is being sent at almost every level due to requirements in the final level. The problem with Prop Drilling is that whenever data from the Parent component will be needed, it would have to come from each level, Regardless of the fact that it is not needed there and simply needed in last.

1. What is custom hooks in React?
2. How to optimize a React code?

* Eliminating the use of inline attributes as they slow the process of loading
* Lazy loading

1. What is react-redux?

React-redux is a state management tool which makes it easier to pass these states from one component to another irrespective of their position in the component tree and hence prevents the complexity of the application. As the number of components in our application increases it becomes difficult to pass state as props to multiple components. To overcome this situation we use react-redux

1. What are benefits of using react-redux?

* It provides centralized state management i.e. a single store for whole application
* It optimizes performance as it prevents re-rendering of component
* Makes the process of debugging easier
* Since it offers persistent state management therefore storing data for long times become easier

1. Explain the core components of react-redux?
2. What is context API?

Context API is used to pass global variables anywhere in the code. It helps when there is a need for sharing state between a lot of nested components. It is light in weight and easier to use, to create a context just need to call React.createContext(). It eliminates the need to install other dependencies or third-party libraries like redux for state management. It has two properties Provider and Consumer.

1. Explain CORS in React?
2. What are controlled and uncontrolled components in react?

A controlled component is a component which is managed by its parent component and its value is updated using props whereas uncontrolled components maintain their own state and data flow is done inside the component only unlike controlled components which pass data from parent to child

1. Explain the types of router in React?

* Memory Router: The memory router keeps the URL changes in memory not in the user browsers.
* Browser Router : It uses HTML 5 history API (i.e. pushState, replaceState, and popState API) to keep your UI in sync with the URL
* Hash Router: Hash router uses client-side hash routing. It uses the hash portion of the URL (i.e. window.location.hash) to keep your UI in sync with the URL.

1. What is StrictMode in React?

The React StrictMode can be viewed as a helper component that allows developers to code efficiently and brings to their attention any suspicious code which might have been accidentally added to the application. The StrictMode can be applied to any section of the application, not necessarily to the entire application