

## QUESTIONS FOR





- What is React, and what are its main features?
- What is JSX and how does it work?
- Explain the concept of the Virtual DOM in React.
- How does virtual DOM in React work? What are its benefits and downsides?
- Difference Between React Node, Element, and Component.
- What are React Fragments used for?
- What is the purpose of the key prop in React?
- What is the consequence of using array indices as keys in React?
- What are props in React? How are they different from state?
- What is the difference between React's class components and functional components?







- When should you use a class component over a function component?
- What is React Fiber?
- What is reconciliation?
- What is the difference between Shadow DOM and Virtual DOM?
- What is the difference between Controlled and Uncontrolled React components?
- How would you lift the state up in a React application, and why is it necessary?
- What are Pure Components?
- What is the difference between createElement and cloneElement?
- What is the role of PropTypes in React?





- What are stateless components?
- What are stateful components?
- What are the recommended ways for static type checking?
- Why does React recommend against mutating state?
- What are the benefits of using hooks in React?
- What are the rules of React hooks?
- What is the difference between useEffect and useLayoutEffect in React?
- What does the dependency array of useEffect affect?
- What is the useRef hook in React and when should it be used?
- What is the purpose of callback function argument format of setState() in React and when should it be used?
- What is the useCallback hook in React and when should it be used?





 What is the useMemo hook in React and when should it be used?



- What is the useReducer hook in React and when should it be used?
- What is the useld hook in React and when should it be used?
- What does re-rendering mean in React?
- What is forwardRef() in React used for?
- Can you explain how to create and use custom hooks in React?
- What are error boundaries in React for?
- What is React Suspense?
- Explain what React hydration is.
- What are React Portals used for?
- What is React strict mode and what are its benefits?





- What is code splitting in a React application?
- How would one optimize the performance of React contexts to reduce rerenders?
- What is the Flux pattern?
- Explain one-way data flow of React.
- What are some pitfalls of using context in React?
- What are some React anti-patterns?
- How do you decide between using React state, context, and external state managers?
- Explain what happens when setState is called in React.
- Explain prop drilling.
- Describe lazy loading in React.
- Discuss synthetic events in React.
- Explain the React component lifecycle methods in class components.



- What is Concurrent Mode in React, and how does it improve rendering performance?
- How does React handle concurrent rendering with multiple updates and prioritize them?
- How would you handle long-running tasks or expensive computations in React applications without blocking the UI?
  Explain server-side rendering of React applications and its benefits.
- Explain static generation of React applications.
- What are higher-order components in React?
- Explain the presentational vs container component pattern in React.
- What are render props in React?
- Explain the composition pattern in React.





- How do you re-render the view when the browser is resized?
- How do you handle asynchronous data loading in React applications?
- What are some common pitfalls when doing data fetching in React?
- What is a React Router?
- How does React Router work, and how do you implement dynamic routing?
- How do you handle nested routes and route parameters in React Router?
- What is the difference between BrowserRouter and HashRouter?
- How React Router is different from the history library?





- What are the components of React Router v6?
- What is the purpose of the push and replace methods of history?
- How do you navigate programmatically in React Router?
- How would you implement route guards or private routes in React?
- How do you manage the active route state in a multi-page React application?
  - How do you handle 404 errors or page not found in React Router?
  - How to get query parameters in React Router?
- How do you perform an automatic redirect after login in React Router?
- How do you pass props to a route component in React Router?





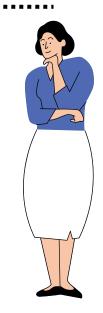
- How do you localize React applications?
- What is React Intl?
- What are the main features of React Intl?
- What are the two ways of formatting in React Intl?
- How to use FormattedMessage as a placeholder using React Intl?
- How to access the current locale with React Intl?
- How to format date using React Intl?
- How do you test React applications?
- What is Jest and how is it used for testing React applications?
- What is React Testing Library and how is it used for testing React components?
- How do you test React components using React Testing Library?

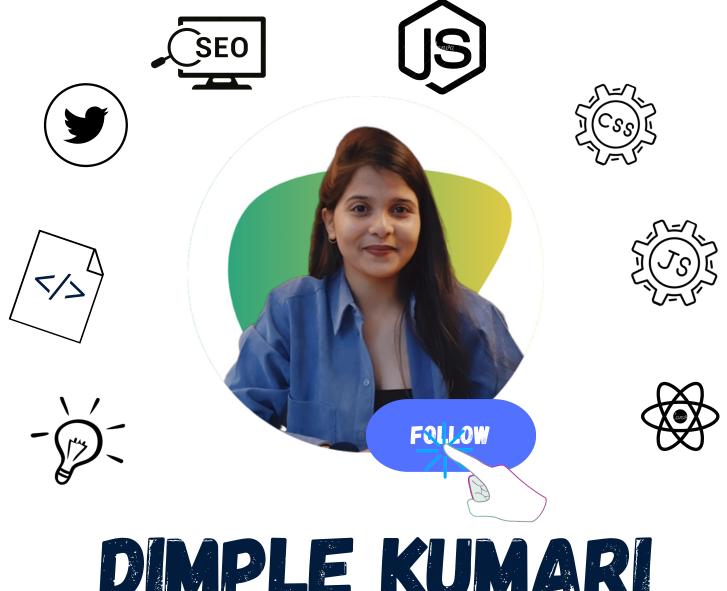




- How do you test asynchronous code in React components?
- How do you mock API calls in React component tests?
- How do you test React hooks in functional components?
- How do you test custom hooks in React?
- What is Shallow Renderer in React testing?
- What is Snapshot Testing in React?
- How do you test React components that use context?
- How do you test React components that use Redux?
- What are the key differences between shallow rendering and full DOM rendering in React tests?
- What is the TestRenderer package in React?







## DIMPLE KUMARI

Forming a network of fantastic coders.





