



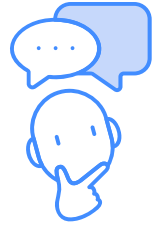
TOP 100 REACT QUESTIONS FOR FRONTEND INTERVIEWS



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- 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?



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- 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?



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- 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?



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- 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 useId 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?



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- 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.



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- 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.



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- 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?



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- 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?



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- 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?

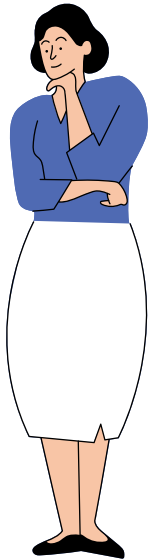


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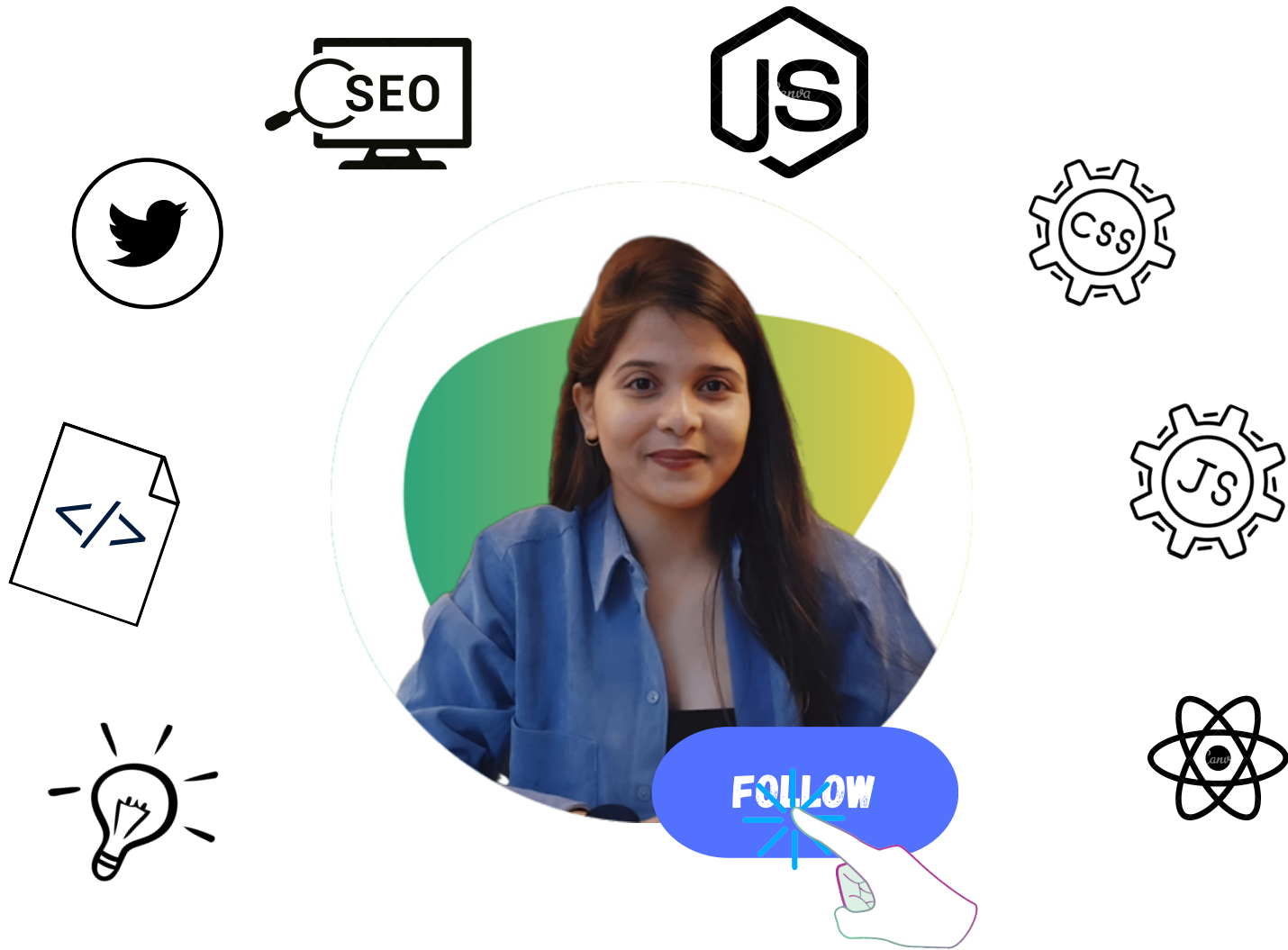
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- How do you test asynchronous code in React components?
 - How do you mock API calls in React component tests?
 - How do you test React hooks in functional components?
 - How do you test custom hooks in React?
 - What is Shallow Renderer in React 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?



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