

React JS Interview Preparation Guide

1. Introduction to React JS

React JS is a JavaScript library developed by Facebook for building user interfaces. It is component-based, declarative, and efficient.

2. Core Concepts

- Components (Functional & Class)
- JSX
- Props & State
- Lifecycle Methods
- Hooks (useState, useEffect, useRef, useContext, useMemo, useCallback)

3. Frequently Asked Interview Questions

- What is the Virtual DOM?
- What are the differences between class and functional components?
- How does the useEffect hook work?
- What is the difference between useMemo and useCallback?
- What is prop drilling and how to avoid it?
- How does React handle events?

4. React Router

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- Setting up routing using React Router DOM
- Route, Link, useNavigate, useParams, useLocation

5. State Management

- useState and useReducer for local state
- Context API for global state
- Redux (optional, advanced)

6. Performance Optimization

- Lazy loading and code splitting
- React.memo, useMemo, useCallback
- Avoiding unnecessary re-renders

7. Testing in React

- Using Jest and React Testing Library
- Writing unit and integration tests for components

8. Tips for Interview Preparation

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- Build small projects to demonstrate your React skills.
- Practice explaining concepts clearly and concisely.
- Use platforms like LeetCode or HackerRank for JavaScript problems.
- Stay updated with the latest in React (e.g., new features in React 18+).