

ReactJS

- Components
 - ■■■ Class Components
 - ■■■ Function Components
 - ■■■ Pure Components
 - ■■■ Higher-order Components
 - ■■■ Render Props
 - ■■■ Hooks
 - ■■■ useState
 - ■■■ useEffect
 - ■■■ useContext
 - ■■■ useRef
 - ■■■ useReducer
 - ■■■ useMemo
 - ■■■ useCallback
 - ■■■ useEffect
 - ■■■ Custom Hooks
- Virtual DOM
- JSX
- State & Props
 - ■■■ State Management
 - ■■■ Lifting State Up
 - ■■■ Context API
 - ■■■ Prop Drilling
 - ■■■ Default & Destructured Props
- Lifecycle Methods (Class Components)
 - ■■■ Mounting
 - ■■■ constructor
 - ■■■ getDerivedStateFromProps
 - ■■■ render
 - ■■■ componentDidMount
 - ■■■ Updating
 - ■■■ getDerivedStateFromProps
 - ■■■ shouldComponentUpdate
 - ■■■ render
 - ■■■ getSnapshotBeforeUpdate
 - ■■■ componentDidUpdate
 - ■■■ Unmounting
 - ■■■ componentWillUnmount
 - ■■■ Error Handling
 - ■■■ getDerivedStateFromError
 - ■■■ componentDidCatch
- Event Handling
- Forms and Input Handling
- Conditional Rendering
- Lists and Keys
- Styling and CSS
 - ■■■ Inline Styles
 - ■■■ CSS Modules
 - ■■■ Styled Components
 - ■■■ Tailwind CSS
 - ■■■ Material-UI / ShadCN
 - ■■■ Bootstrap

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- Routing
 - ■■■ React Router
 - ■■■ Dynamic Routing
 - ■■■ Nested Routes
 - ■■■ useNavigate & useParams
 - ■■■ Protected Routes
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- State Management
 - ■■■ Redux
 - ■ ■■■ Store
 - ■ ■■■ Reducers
 - ■ ■■■ Actions
 - ■ ■■■ Middleware
 - ■ ■■■ Redux Toolkit
 - ■ ■■■ RTK Query
 - ■■■ Zustand
 - ■■■ Jotai
 - ■■■ Recoil
 - ■■■ React Query
 - ■■■ Apollo Client (GraphQL)
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- Data Fetching & Side Effects
 - ■■■ Fetch API
 - ■■■ Axios
 - ■■■ GraphQL (Apollo Client)
 - ■■■ SWR
 - ■■■ React Query
 - ■■■ useEffect for Side Effects
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- Performance Optimization
 - ■■■ React.memo
 - ■■■ useMemo
 - ■■■ useCallback
 - ■■■ Lazy Loading & Code Splitting
 - ■ ■■■ React.lazy()
 - ■ ■■■ Suspense
 - ■ ■■■ Dynamic Imports
 - ■■■ Virtual DOM Diffing
 - ■■■ Concurrent Mode
 - ■■■ React Fiber
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- Testing
 - ■■■ Jest
 - ■■■ React Testing Library
 - ■■■ Cypress (E2E Testing)
 - ■■■ Unit Testing
 - ■■■ Integration Testing
 - ■■■ Snapshot Testing
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- Deployment & Build Tools
 - ■■■ Vite / Webpack
 - ■■■ Babel
 - ■■■ CI/CD Pipelines
 - ■■■ Hosting (Vercel, Netlify, Firebase)
 - ■■■ Docker for React Apps
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- Server-Side Rendering (SSR) & Static Site Generation (SSG)
 - ■■■ Next.js

- ■■■ Gatsby
- ■■■ Remix
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- React Native
 - Components
 - Styling
 - Navigation
 - Native Modules
 - APIs
 - Expo
 - Performance Optimization