

React Topics By Akshay Saini!!!

1.) Hooks

- Use State
- Use Effect
- Use Context
- Use Reducer
- Use Memo
- Use Callback
- Use Ref

2.) Higher Order Components (important for machine coding round)

- What, why, when, how?

3.) Life Cycle Methods of Components

- Class Components

4.) State Management (All about Data)

- State/props
- Props drilling
- Context

5.) Redux/Zustand

- How, when, why?
- Redux Toolkit (RTK)

6.) Custom Hooks

- When??
- Code
- Adv - clean, maintainable, readable, reusable

7.) Lazy Loading (code splitting, chunking, suspense)

- Highly asked.

8.) Virtual DOM

- ReConciliation
- React Fiber
- Render
- Diffing Algorithm.

9.) SSR vs CSR (Server Side Rendering vs Client Side Rendering)

- Difference between them
- SEO
- Performance

10.) Routing (RBAC)

- React router
- Protected Routes
- Query parameters

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- Dynamic Routing

11.) Testing

- React Testing
- Unit testing

12.) Async Tasks

- API Calls
- Events
- Use Effect in Depth
- Promises ***
- Set Timeout, set Interval

13.) Points to Remember - Reusability / Modularity / Testability

14.) Performance **

- Lazy Loading
- Assests (Images etc.)
- Bundlers
- CDN / Server Level
- Write Optimize Code
- Rendering of Components

15.) Styling - (My favourite One)

- Tailwind
- StyleX
- MUI
- Bootstrap
- Ant
- Inline CSS/ CSS/ SCSS
- StyledComponent

16.) Accessibility

17.) Security

Four Important Pillars:

- Accessibility
- Security
- Testability
- Performance