Code Splitting by Route (10)

1. What is code splitting in React and why is it beneficial for large applications?

2. How do you implement route-based code splitting using React.lazy() and Suspense?

3. What is the role of the fallback prop in Suspense?

4. How does code splitting improve initial page load time?

5. Compare code splitting by route vs code splitting by component.

6. What happens if a dynamically imported route component fails to load? How would you handle that?

7. How does Webpack handle chunk naming in dynamic imports?

8. What is the default chunk naming strategy if you don't specify webpackChunkName?

9. How would you lazy-load multiple components for the same route?

10. Can you apply code splitting in nested routes? If yes, how?

Webpack Bundle Analyzer (10)

11. What is Webpack Bundle Analyzer used for in React development?

12. How do you install and configure Webpack Bundle Analyzer?

13. What kind of insights can Webpack Bundle Analyzer provide about your build?

14. How do you identify large dependencies in your Webpack bundle?

15. What strategies can you apply after identifying large bundles in Webpack?

16. How do you run Webpack Bundle Analyzer in development mode vs production mode?

17. What is the difference between static and server modes in Webpack Bundle Analyzer?

18. How do you exclude certain packages from Webpack's analysis?

19. How can tree shaking help after analyzing your Webpack bundle?

20. How does Webpack's splitChunks configuration interact with bundle analysis results?

State Lifting (State Up) (10)

21. What does "lifting state up" mean in React?

22. Why might two sibling components need state to be lifted?

23. How do you pass data from a child component to a parent when lifting state?

24. What is the main drawback of lifting too much state?

25. How can lifting state up help prevent prop drilling?

26. Give an example of a form with multiple inputs where state lifting is used.

27. How do you prevent unnecessary re-renders when lifting state up?

28. How do you combine state lifting with context to avoid deep prop passing?

29. When lifting state, why might you use useCallback in the parent?

30. How can you lift state without breaking controlled form elements?