React Interview Questions

Class Components & Basic React (Interview Ready)

Class Component Interview Questions

1. What is a class component in React?
A class component is a JavaScript class that extends React.Component and uses a render() method to return JSX. It supports state and lifecycle methods.

2. Explain lifecycle methods.
Mounting (constructor, render, componentDidMount), Updating (shouldComponentUpdate, componentDidUpdate), Unmounting (componentWillUnmount), and Error handling (componentDidCatch).

3. How does setState work and why is it asynchronous?
setState updates component state and triggers re-rendering. It is asynchronous because React batches updates for better performance.

4. What is PureComponent?
PureComponent performs a shallow comparison of props and state to prevent unnecessary re-renders, improving performance.

5. What are error boundaries?
Error boundaries catch JavaScript errors in child components using lifecycle methods like componentDidCatch. They require class components because hooks do not support them.

Basic React Interview Questions

6. What is React?
React is a JavaScript library for building user interfaces using reusable components and efficient UI updates.

7. What is JSX?
JSX is a syntax extension that allows writing HTML-like code inside JavaScript, which is compiled to React.createElement.

8. Difference between props and state?
Props are immutable and passed from parent components, while state is mutable and managed within a component.

9. What is Virtual DOM?
The Virtual DOM is a lightweight copy of the real DOM. React updates only changed parts using diffing for better performance.

10. What is a component?
A component is a reusable UI building block. Main types are functional and class components.