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VIRTUAL DOM

5 INTERVIEW QUESTIONS

with answers



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WHAT ARE SOME LIMITATIONS OF THE VIRTUAL DOM?



1. **Memory** usage can be higher since both the Virtual DOM and the actual DOM are maintained in memory
2. The **abstraction** adds a layer of complexity that can be overkill for very static content



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HOW DOES THE VIRTUAL DOM IMPROVE PERFORMANCE

The Virtual DOM improves performance by minimizing direct manipulation of the actual DOM. It uses a **diffing algorithm** to compare the new virtual DOM with the previous one and applies only the necessary changes to the real DOM.



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WHAT ARE THE MAIN COMPONENTS OF THE VIRTUAL DOM IN REACT?

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The main components of the Virtual DOM in React include **elements**, and the **diffing algorithm**, which identifies changes and updates the real DOM efficiently.



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WHAT IS RECONCILIATION IN VIRTUAL DOM?

Reconciliation is the process by which React updates the actual DOM to match the V-DOM. This involves **diffing** the new Virtual DOM tree against the previous one, determining the changes, and updating the real DOM.



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HOW DOES REACT OPTIMIZE UPDATES IN **LARGE LISTS** WITH THE VIRTUAL DOM?

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React optimizes updates in large lists by using keys to track list items. Additionally, React 18 introduced features like "**Concurrent Mode**" and "**Suspense**" to further improve performance by breaking updates into smaller chunks and managing updates more efficiently.



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