DWA_12 Knowledge Check

To complete this Knowledge Check, ensure you have worked through all the lessons in **Module 12: Declarative Abstractions.**

To prepare for your session with your coach, please answer the following questions. Then download this document as a PDF and include it in the repository with your code.

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1. What are the benefits of direct DOM mutations over replacing HTML?

Performance boost

Making direct DOM mutations is generally more efficient in terms of performance when compared to replacing HTML. This is due to the fact that it involves making precise modifications to existing DOM elements instead of completely recreating them. By following this approach, the workload on the browser decreases and ultimately enhances overall performance.

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2. What low-level noise do JavaScript frameworks abstract away?

Imperative updating of the DOM, keeping track of what elements need to change

JavaScript frameworks abstract away the low-level noise of imperative updating of the DOM and keeping track of what elements need to change.

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3. What essence do JavaScript frameworks elevate?

By utilizing JavaScript frameworks, developers are able to improve their capability of managing application state and logic. This allows them to alleviate themselves from the cumbersome tasks of working with low-level DOM manipulation and event handling. Consequently, they can focus primarily on crafting essential functionalities for their applications.

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4. Very broadly speaking, how do most JS frameworks achieve abstraction?

They hide away the imperative DOM mutations

Most JavaScript frameworks achieve abstraction by hiding away the imperative DOM mutations, providing higher-level abstractions and tools for managing application state and rendering.

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5. What is the most important part of learning a JS framework?

To effectively utilize a JavaScript framework for web application development, it is crucial to grasp its fundamental concepts and principles. These include components, state management, and routing. They serve as the building blocks that form the bedrock for mastering any JavaScript framework.