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

Direct DOM mutations allow developers to update specific elements or attributes without affecting the entire HTML structure. This granularity can lead to more efficient updates, particularly beneficial when only a small part of the DOM requires modification.

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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 play a crucial role in abstracting away the low-level noise associated with imperative DOM updates. They handle the complexity of tracking changes, offering a more declarative and higher-level approach to building user interfaces. This abstraction simplifies the development process, enhances code readability, and allows developers to work at a higher level of abstraction when creating modern and reactive user interfaces.

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3. What essence do JavaScript frameworks elevate?

JavaScript frameworks elevate the development experience by promoting best practices, providing abstractions, and offering features that contribute to the creation of robust and maintainable web applications.

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4. Very broadly speaking, how do most JS frameworks achieve abstraction?
They hide away the imperative DOM mutations

Very broadly speaking, most JavaScript frameworks achieve abstraction by hiding away the imperative DOM mutations. They provide a higher-level, declarative interface that allows developers to express the desired state of the user interface without directly manipulating the DOM. This abstraction simplifies the development process, enhances code readability, and allows for more efficient and scalable application development.

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

Understand the fundamental concepts of the framework, such as components, state management, routing, and the overall architecture.