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?

Changing the HTML means you need to reload the page, whereas changing the DOM updates the document in the browser in real time.

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

Javascript frameworks abstract away low-level noise such as browser compatibility issues and repetitive coding patterns, allowing developers to focus on higher-level logic and functionality for building web applications.

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3. What essence do JavaScript frameworks elevate?

JavaScript frameworks elevate efficiency and productivity by providing pre-built tools, components, and functionalities that enable developers to build and manage complex applications more easily and effectively. They also prioritize modularization, reusability, and scalability, ensuring code organization and maintainability.

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

Most JavaScript frameworks achieve abstraction by providing higher-level APIs and tooling that simplify common tasks, such as DOM manipulation and data binding, hiding away implementation details and allowing developers to focus on application logic. They also often rely on the principles of modular design and component-based architecture to create reusable and encapsulated code.

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

The most important part of learning a JS framework is understanding its core concepts, such as its architecture, data flow, and state management, as these concepts form the foundation on which the framework operates. Additionally, practical application through building projects and actively working with the framework is crucial for gaining proficiency and mastering it.