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: Faster updates and improved overall performance by selectively updating specific elements or attributes instead of re-rendering the entire HTML structure.

- Efficiency: Minimizes unnecessary processing and rendering, particularly beneficial for complex web applications with large and dynamic DOM structures.

- User Experience: Provides a smoother and more seamless experience with minimal disruption to interactions.

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

JavaScript frameworks abstract away low-level noise such as:

DOM manipulation
Event handling
Ajax and HTTP requests
Cross-browser compatibility

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3. What essence do JavaScript frameworks elevate?

JavaScript frameworks elevate the essence of web application development by emphasizing structure, efficiency, productivity, consistency, extensibility, cross-browser compatibility, and community support. They provide organized approaches, reusable components, streamline development, enforce best practices, offer extensibility, address cross-browser challenges, and foster vibrant ecosystems.

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

Most JavaScript frameworks achieve abstraction through higher-level APIs, component-based architecture, declarative syntax, virtual DOM, data binding, dependency injection, and convention over configuration. These techniques simplify development, provide higher-level abstractions, and improve productivity.

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

The most important part of learning a JavaScript framework is to understand its core concepts and principles. By grasping the fundamental concepts, you can gain a solid foundation for effectively utilizing the framework and leveraging its capabilities.

Like API(Application Programming Interface) and Documentation: Familiarize yourself with the framework's API and documentation. Learn how to use the provided methods, functions, and utilities to interact with the framework and accomplish common tasks.