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?

Direct DOM mutations
(performance)are faster and more well organized compared to replacing HTML because they only modify specific parts of the existing DOM, while replacing HTML involves recreating and rendering the entire DOM tree, which can be slow and resource-intensive, especially for complex web pages.

Direct DOM mutations provide more control over updating specific elements or attributes. Developers can selectively change only the necessary parts of the DOM, leading to more organized updates and greater control over the rendering process.

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

Event Handling-Frameworks simplify event handling by providing event delegation, event binding, and other abstractions that make it easier to manage and respond to user interactions.
Code Organization-Frameworks often enforce a modular and organized structure for applications, providing guidelines or patterns for separating concerns, managing components, and structuring the codebase.

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3. What essence do JavaScript frameworks elevate?

JavaScript frameworks simplify web development by providing a structured and well-organized environment for building complex applications. They abstract away complexities, promote code reusability, simplify data management, and offer a wide range of resources and community support.

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

JavaScript frameworks simplify web development by offering a higher-level API and ready-to-use tools that hide the complexities of low-level tasks. They provide pre-built components, modules, and patterns, allowing developers to focus on building applications instead of dealing with very complicated details. This abstraction saves time and effort by eliminating the need to manually handle low-level tasks.

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

Having a solid foundation of JavaScript is very important ,understanding the main concepts of JS which includes concepts like variables, data types, functions, scope, and object-oriented programming principles.Being familiar with HTML and CSS as most of JS framework works altogether in building web apps.Having this kind of foundation in JavaScript will make it easier to understand the concepts and patterns used in the framework. .