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?

- Following the logic is easier.
- It's easier to debug because one can follow the logic of the current/last state and figure out why that result was outputted.
- All one has to focus on is the values that get parsed in, at least until the complexity increases.
- Generating content to the DOM stores changes in memory, in addition to just displaying information in the HTML. In other words, that state is in storage.
- Only necessary changes were made, instead of the entire HTML being replaced.

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

- They handle duplicate code and common tasks so that the programmer can focus on flow and functionality
- Abstract away the differences between browsers and devices and therefore offer compatibility and cross-browser support

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3. What essence do JavaScript frameworks elevate?

- Better controlled logic
- Faster loading times on web browsers
- Keeping track of an application's state when a user triggers an effect, in addition to updating its state
- Keeps code modular by hiding additional complexity

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

Javascript frameworks achieve abstraction by taking common features and building a foundation of components. This foundation directs the flow of the code in a specific way, and even allows the user to extend the components of the framework.

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

It heightens one's knowledge of the use of JavaScript frameworks, because then one will be able to implement the framework effectively. This will help with improving code structure and maintain consistency within the application. Furthermore, with the continuous updates in programming, having practice with frameworks will allow for better understanding regarding collaborative work.