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
● 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 are 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?
They hide away the imperative DOM mutations

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 helps with improving code structure and maintaining consistency within the application. Furthermore, with the continuous updates in programming, having practice with frameworks will allow for better understanding regarding collaborative work