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 boost- By focusing on smaller, targeted updates, you can achieve better performance and a more responsive application. You get to focus to a smaller scale instead of needing to update the entire HTML structure

It also allows for a better user experience as they will experience fewer delays on input and output.

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

Imperative updating of the DOM, keeping track of what elements need to change. It takes away the added level of code.

It also assist with making use of the virtual DOM to manage the state and update the UI without directly changing the DOM.

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3. What essence do JavaScript frameworks elevate?

It elevates declarative programming style, it makes use of state libraries and brings forth the concept of reactivity. Simplifying the model and the view.

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

They hide away the imperative DOM mutations, it only takes function on the virtual DOM. When you change the state of an application it will first update the virtual DOM.

We achieve abstractions with the use of declarative programming where you tell the UI what to look like for a given state, rather than how to achieve the UI.

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

Understanding what is being abstracted away. By knowing this you will be able to understand what to fix should anything not work on the view or something breaks, so you need to understand what is being passed through and what function is serves.