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: It is more efficient because it only changes the specific parts of the DOM that need to be changed, which can lead to a better performance.
*You can update attributes, styles,content of specific elements without affecting other parts of the page.

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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.
When you build web applications, you often need to change or update the content and appearance of elements on a web page. Doing this without a framework involves lots of detailed and repetitive code. JavaScript frameworks simplify this process, allowing developers to make these changes more easily and efficiently.

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3. What essence do JavaScript frameworks elevate?

You can build things quicker because frameworks provide ready-made tools and patterns. You can reuse pieces of your code in different parts of your project, saving time. They're good for building really big websites and apps because they're designed to handle lots of things happening at once. There are many people using these frameworks, so there are lots of tools and people who can help you if you get stuck. Frameworks encourage organizing code neatly, which makes it easier to understand and work on.

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

They hide away the imperative (step-by-step) manipulation of the Document Object Model (DOM), which is the way web browsers represent and interact with web page content.
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5. What is the most important part of learning a JS framework?

To understand its core concepts and principles. These foundational elements serve as the building blocks for effectively using the framework in your web development projects.