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 are more efficient than replacing HTML because they allow you to react to DOM changes without affecting browser performance negatively.
- You can create applications that update the data of the page without needing a refresh.
- You can create applications that are customizable by the user and then change the layout of the page without a refresh.

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2. What low-level noise do JavaScript frameworks abstract away?
    - They abstract away the low-level noise of the DOM API and browser inconsistencies.
    - They provide a higher-level API for developers to work with that is more consistent across different browsers and easier to use.
    - This allows developers to focus on building their application logic rather than worrying about the details of the underlying platform.

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3. What essence do JavaScript frameworks elevate?
    - They help developers build scalable, interactive web applications.
    - Each JavaScript framework offers pre-built codes for different areas and different purposes in software development, saving time for the developer.

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4. Very broadly speaking, how do most JS frameworks achieve abstraction?
    - They achieve abstraction by providing a set of libraries and tools that allow developers to write code that is more concise and easier to read.
    - They do this by abstracting some more complex aspects such as DOM manipulation and event handling.
    - This allows developers to focus on writing code that is more declarative

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5. What is the most important part of learning a JS framework?
    - Frameworks provide you with a blueprint, so that you can use little bits to create a whole structure, and then you can style and scale your code in your own way.

    - The most important part is to understand the core concepts of the framework. (How the framework works, its architecture and how it can be used to build web applications)
    - It's also important to learn how to use the framework's tools and features effectively. (API's, libraries and other tools)
    - It's also important to learn how to debug and troubleshoot issues that may arise when using the framework.