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?

If we re render the DOM everytime we have a change to the DOM then we end up with slow performance. There are also some other problems we will encounter when the HTML is rerendered..

Unfocusing Elements.
Having to reassign listeners.
Poor memory management.

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

Javascript frameworks allow the developer to focus on projects without worrying about low level repetitive tasks that are error prone.

Like Direct DOM manipulation, state management(to keep the UI updated with the state) and reducing the need for boilerplate code.

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3. What essence do JavaScript frameworks elevate?

Different frameworks have different essences. For example React is more of a functional programming language. It focuses on encapsulation, component based architecture which allows for a more declarative programing.

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

Component based architecture - this encapsulation allows each component to store its own logic and state. It also allows for higher reusability of components.

Declarative syntax- this allows for the code to be written in a way that is easier to read and reduces the chance of common failures in logic in repetitive code.

Virtual Dom- the virtual DOM allows for faster and more controllable updating of the dom saving resources time.

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

Understanding the core principles of the Framework. Each framework is a tool and has different applications. Read the documentation and look for community resources on the framework so you can see some common dos, don'ts and other common mistakes or tips that could help you