

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.

1. What are the benefits of direct DOM mutations over replacing HTML?

1. Efficiency- the DOM for me is much better because it allows you to target and modify specific elements or attributes without rebuilding the whole DOM, this can help with larger or complex web pages.

For me it is important to know direct DOM mutations require careful handling to avoid potential pitfalls such as memory leaks.

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

1. State Management in JavaScript framework often include built in state solutions or provide libraries for managing application state, this abstraction eliminate the need for developers to handle state updates, this are patterns such as redux

By abstracting away the low level complexities, JavaScript frameworks allow developers to focus more on application logic, user experience and higher level concerns, thereby increasing productivity and making web development more accessible to a broader range of developers.

3. What essence do JavaScript frameworks elevate?

1. Maintainability -promotes the code in organizing in such a way it makes it easy for anyone to read and maintain the code. This encourages practices such as separation of concerns, reusability and encapsulation, by enforcing structured patterns.

By elevating these essences, it empowers developers to build high quality and performance web applications more efficiently, this provide a solid foundation and standardize practices, allowing developers to focus on delivering business value.

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

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

1. Templating - this is important because to understand how the framework handles data binding between the applications data model and the user interface. Learn the syntax and concepts related to data binding, including one-way and two-way binding and list rendering, this knowledge is crucial for building dynamic and responsive.