

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?

- a).Efficiency - Direct DOM mutations are typically more efficient than replacing HTML because they only modify the specific elements or attributes that need to be updated.
- b).Preserving state - When you replace HTML, you essentially discard the existing DOM and recreate it from scratch.Direct DOM mutations allow you to preserve the existing state by selectively modifying only the necessary parts of the DOM, ensuring a smoother user experience and avoiding unnecessary data loss.

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

- a).DOM manipulation - This abstraction eliminates the need to manually handle cross-browser inconsistencies, event bindings, and other low-level DOM manipulation tasks.
- b).Event Handling - They abstract away the differences in event registration across different browsers and simplify tasks like event delegation, event propagation, and handling complex event interactions.

3. What essence do JavaScript frameworks elevate?

- a).Structure and Organization - JavaScript frameworks promote structured and organized development by providing predefined patterns and conventions. They encourage the separation of concerns, such as separating presentation logic from data manipulation This elevated essence enables developers to build applications in a more

organized and maintainable manner, making it easier to understand and collaborate on the codebase.

b). Reusability and Modularity - JavaScript frameworks encourage code reusability and modularity through component-based development approaches. This elevated essence promotes code reuse, simplifies maintenance, and facilitates collaboration among developers working on different parts of the application.

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

Encapsulation - Frameworks encapsulate complex functionality and implementation details behind higher-level APIs and abstractions. By encapsulating the internal workings, frameworks shield developers from having to understand or deal with the underlying complexity directly.

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

a). Core Concepts; Identify and understand the core concepts of the framework, such as components, directives, modules, or services. These concepts form the building blocks of the framework and dictate how you structure and compose your application. Learn how to create, configure, and interact with these core elements, as they play a crucial role in building applications with the framework.