

# 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?

1. Dom mutations are more computationally efficient.
2. You can target specific elements without affecting other elements
3. It preserves state. When you replace the HTML you lose the state which can affect anything the user has previously interacted with.

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

1. DOM manipulation
2. Cross-browser compatibility
3. Event handling
4. AJAX and network requests
5. State management
6. Componentization

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## 3. What essence do JavaScript frameworks elevate?

elevated elements, frameworks allows developers to build robust, efficient, and maintainable web applications more effectively.

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

JS frameworks provide a higher-level interface and set of tools that hide the low-level implementation details and complexities of web development

The specific implementation is different depending on the framework but some common features include API design, Component based architecture, Virtual DOM, templating...

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

This is a subjective opinion but I would say that a JS framework allows a dev to work at a higher level of abstraction, this is helpful to manage complexity and work more efficiently but it comes with risk.

Making development easier and not requiring lower level knowledge to implement higher level projects can be dangerous when a Dev is not familiar with the risk and vulnerabilities in software design and uses tools without understanding them to disastrous effect