DWA_01.3 Knowledge Check_DWA1

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1. Why is it important to manage complexity in Software?

The Codebase can get out of hand really quickly. It can lead to critical errors/bugs that you might not know are present until later down the line. It can also make it very difficult for a person to understand what is happening in the code.

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2. What are the factors that create complexity in Software?

Lack of documentation, bad style guides, lack of modularity(reusability), and abstraction.

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3. What are ways in which complexity can be managed in JavaScript?

Improve these: Documentation, style guides, modularity, and abstraction.

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4. Are there implications of not managing complexity on a small scale?

Yes, if you need to add to the existing code in the future you will have to spend a lot more time understanding the code base before starting the latest features.

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5. List a couple of codified style guide rules, and explain them in detail.

Group all const and let variables at the top of the page.
Be descriptive with your variable names.
Use indentation to help with the readability of code.
Use === and !== over == and != because it will check for data type and value not just value that gets coerced.
Use jsDocs which will help with readability.
Use imports to keep code more modular.

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6. To date, what bug has taken you the longest to fix - why did it take so long?

Trying to use the this keyword to access a property in an object. I didn't know I could access methods in an object using it.
