DWA_01.3 Knowledge Check_DWA1

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

- To make it easier to read And edit.
- To make it easier to debug and maintain.
- To improve performance and efficiency

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

- Unclear variable or Function names.
- Large code with bad formatting.
- Project requirements.

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

- Abstraction.
- Descriptive variable and function names.
- Clear code comments.
- Consistent code testing.
- Encapsulate your code.

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

Yes, there are. For example:

- It can lead to more bugs.
- Reduce maintainability and productivity.

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

- Descriptive naming conventions - use descriptive names for your variables and functions. This helps developers quickly understand the purpose and use of them, therefore making your code more readable and maintainable.

- Variable declaration - variables should always be declared with const or let instead of var.

  const indicates that the variable will not be reassigned.

  let can be reassigned new values after their initial declaration

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

- Mine has been to blur out and deactivate the background in my book-connect capstone. Still have not fixed it because I gave up and submitted the capstone. Figuring out the correct syntax is my challenge for that, and I will revisit it.
