DWA_01.3 Knowledge Check_DWA1

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

To reduce chance of clashing into avoidable bugs. To make it more readable and understandable for possible external developers to read with ease as well as for yourself to understand at a later point in time.

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

- If code is not clear and upfront and explained with clear cut comments
- If code segments are not separated it could be harder to read and interpret
- If code its not tested properly and timelessly we could have serious bugs or even minor bugs that would enable code to still function but not to the function we expect, example being the rocket explosion
- Commenting is a vital part of reducing complexity thus increasing the readability of the code

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

- Object orientated programming
- Code refactoring(simplicity)
- Commenting adequately

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

- To avoid mid-level bugs, code could become complex and functional but not to our specifics

- Commenting and proper syntax management could save a lot of time and headaches

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

- **Naming and declaration rules for variables and functions**
- **Use of space indentation and comments to increase readability and reduce complexity**

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

The IWA challenge with the table, I didn't take the time to understand it completely so that resulted in a technical debt, meaning that I had to get it working to submit before I understood what the functional purpose of the code was as well as not simplifying it for myself to review at a later time

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