

# DWA\_01.3 Knowledge Check\_DWA1

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

Managing complexity in software promotes better teamwork or collaboration and fixing errors/Debugging becomes easier most of the time if not always.

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

-structure can contribute also. A good software structure can also help with making names consistent and easy to understand. Having clear and it is important because it makes it easier for everyone to understand the code without getting confused.

-Changing code many times as the code sometimes have multiple people working on it.

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

-Having the properties in an object beyond the new line

-using brackets in an if statements

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

Yes,

If you don't handle complexity on a small scale, it can cause problems like things taking longer, more mistakes happening and stress level can go up.

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

- Use consistent naming conventions: Having clear and it is important because it makes it easier for everyone to understand the code without getting confused.

- Use meaningful comments: Adding clear comments and documentation helps other developers understand the code's purpose, functionality, and potential gotchas.

- Avoid code duplication: Duplication of code leads to maintenance challenges and increases the risk of inconsistencies and bugs

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

I'm currently facing some issues with my search function. It's not working correctly when I try to use filters, and it's not returning any results. I'm unsure what could be causing this problem. I suspect that there might be problems with the implementation, data consistency, software coding, database or indexing, or even the user input. But i am still working on it.

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