

DWA_01.3 Knowledge Check_DWA1

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

To make the code easier to understand and read. It will also make it quicker to find bugs if you ever need to fix the code. If your code is managed it makes it easier for other people to work with you on your code.

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

The lack of understanding coding. Software development changes every day and the way of coding also evolves everyday and new stuff comes out. Time is also a factor because sometimes coders get impatient and want to code something quickly.

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

By commenting above code that explains what the code is doing. By giving variables the correct names almost in a way like the name should tell you exactly what the variable is for. By trying to simplify your code to the best way possible. Just by coding in an order everything step by step and group code together that are related.

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

Yes, if you don't manage your code you will get confused with your own code. You will forget what your code was meant for or struggle to figure out your code and will take a lot of time if you need to fix bugs. It will be a struggle for you to work in a team because other people won't be able to understand your code.

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

1. Naming conventions for variables - the name of a variable should tell you what the variable will be used for.
 2. Code should be documented - use comments above code to explain what the code does, to make it easier to understand for other people.
 3. Length of functions should not be large - the lengthier the code the more room for error.
 4. Avoid using coding styles that is difficult to understand - code should be easy to read for understanding.
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6. To date, what bug has taken you the longest to fix - why did it take so long?

Won't say it was a bug but in the previous capstone project sorting an array to find a certain book was a bit of a struggle to figure out.
