DWA_01.3 Knowledge Check_DWA1

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1. Why is it important to manage complexity in Software?
Software consist of systems which are complex to understand therefore it has to be managed so that:

- It is maintainable, as software grows rapidly it has to be structured in a way which is easier to comprehend, maintain and filter over time.
- It is easy to debug. Complex software is likely to introduce bugs. By managing complexity it would be easy to identify bugs and solve them.

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

- Lack of code organization and structure, inconsistent naming of conventions can lead to complexity.
- Data scalability.
- Lack of comments
- Requirements keep on changing.
- Small bugs can crash the entire functionality of the code.

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

- Documentation, be consistent with documentation, comments and API documentation to help developers understand the complex code.
- Have a readable code.

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

- There will be high chances of bugs in the code, neglecting complexity hinders bugs.
- Creates high chances for crashing.

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5. List a couple of codified style guide rules, and explain them in detail.
- Documentation, this rule emphasizes adding comments to explain the purpose, behavior, and usage of functions used in the code.
- Camel case, focuses on code readability.
- Indentation and spacing, so that the code is neat and readable.
- Using named function expression instead of function declaration.

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6. To date, what bug has taken you the longest to fix - why did it take so long?
- Syntax error because I was confusing variables
- Not declaring the variables correctly with the idea that I am going to use
- Not getting the right id tag from the html to the Javascript because there would be a lot provided

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