DWA_01.3 Knowledge Check_DWA1

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

It is important to manage software complexity so as to maintain understandability, readability and scalability. The larger the code the harder it is for a developer to remember the different moving parts, making the code more bug prone. Due to the size of the program, finding the bug can become more difficult.

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

Factors that create complexity in software is an introduction to new technology, poor coding practices, and poor architectural design.

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

Complexity can be managed by being mindful of code style, adding documentation, keeping code modular and making use of abstraction.

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

Best practice would be to manage complexity on all levels, but the word complex means big and messy so on a small scale, complexity would not be defined.

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

Use const or let to declare variables so as to avoid global variables.
Avoid single letter names and be descriptive with naming.
Use camelCase when naming objects and functions.

No leading commas.
Add semicolons to indicate line break and help prevent misinterprets by JavaScript.

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

It took a long time to try to correct the IWA capstone project code, the main reason for that was trying to understand the logic behind the code and having to restructure the flow of the code for better readability.
