DWA_01.3 Knowledge Check_DWA1

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1. Why is it important to manage complexity in Software?
    - To make it more readable and maintainable.
    - Debugging and troubleshooting can become a bit easier.
    - Improve performance resulting in more efficient code.

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2. What are the factors that create complexity in Software?
    - Rapid language evolution
    - Technical debt
    - Scaling

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3. What are ways in which complexity can be managed in JavaScript?
    - Being mindful of style guides.
    - Using documentation.
    - Modularization- Breaking code into smaller modular components.
    - Abstraction

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

Yes, it can still affect the maintainability, readability which can later cause problems in the code.

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5. List a couple of codified style guide rules, and explain them in detail.
   - Use descriptive variable and function names: use meaningful and descriptive names for variables and functions for better code readability.
   - Use braces for block statements even if they are optional: to make the code less prone to errors caused by unintended indentation.
   - Avoid using the var keyword: instead use const and let keyword to avoid unintentional reassigning.
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6. To date, what bug has taken you the longest to fix - why did it take so long?

The debugging of the final IWA capstone project. Maybe because I couldn't see the immediate effect of the outcome I wanted and the readability was not clear enough to see some errors.
