DWA_01.3 Knowledge Check_DWA1

---

1. Why is it important to manage complexity in Software?
    - Because building software is building on thought and that can quickly spiral out and be overly complex, and programming in itself is very complex and hard
    - Complex software takes huge amount of effort and time to understand

---

2. What are the factors that create complexity in Software?
    - Software has a long life cycle so it has to be written in a readable and maintainable
    - Developers are different and write software if different ways and that increases
    - Evolving requirements
    - Scaling software

---

3. What are ways in which complexity can be managed in JavaScript?
    - Documentation
    - Readability
    - Abstraction
    - Writing code in modular

---

4. Are there implications of not managing complexity on a small scale?
Yes, - getting frustrated that you can't fix a bug, having difficulty understanding the code and what went wrong.
More complexity also makes your code more vulnerable to bugs and less secure

---

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

- Indentation
    - Indent our code with 2/4 spaces or tab and don't end line with empty trailing empty spaces
- Variables
    - Declare variables with let const before they are used

---

6. To date, what bug has taken you the longest to fix - why did it take so long?
Getting to edit and update an order in IWA 18, I couldn't be able to take the details of an order to a form when a user clicks the order they want to edit and also when done editing to save and not create a new order

---