DWA_01.3 Knowledge Check_DWA1

---

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

Software is always moving and changing, because new software is always being developed/created. It's important for us to work around everything where software is involved, whether old or new.

---

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

Programming is complex as a whole. Changing our code as we build creates complexity. Technical Dept (the longer you leave your issues, the more it will grow and get out of control).

---

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

We need to be precise, in identifying issues and analyzing possible solutions. Be mindful of how small things can break large things.

Common methodologies that allows us to manage complexity in software are: Object Oriented Programming (OOP) and Functional Programming (FP).

---

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

Yes there are, because your team/coaches will be reading the codebase significantly more than writing code into it. So if the code is too complex and lacks readability, it'll continue to slow down the production process.

---

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

- Use 2 spaces for indentation: This rule enforces a consistent indentation style. The default style is 4 spaces.
- Add a space after keywords: This rule enforces consistent spacing around keywords and keyword-like tokens. It is designed carefully not to conflict with other spacing rules: it does not apply to spacing where other rules report problems.

---

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

Fixing the date and time, and their formats was the bug that took me the longest to fix. I did not know much about their formats and I had to do research about it to understand
before I could complete it.
