

DWA_01.3 Knowledge Check_DWA1

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

It helps to enhance code quality ,consistency and maintainability, prevent errors and bugs, avoid software failures.It also assists in simplifying software architecture. Improve code readability and reusability.To avoid confusion and misunderstanding by providing a clear, concise and testable code.

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

Poor design choices

Unclear naming , formatting or documentation

Size of the software

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

You can do code documentation whereby you describe the purpose, functionality and usage of the code.

Comments- provide explanations that provide clarity or justify poor decisions or assumptions

Formatting- use standard rules for the layout spacing and punctuation in your code

Software tools- they help you write, edit, debug, refactor, test and analyze your code.

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

Likelihood of bugs creeping into your code are high

Harder to test thoroughly

Software failures or errors

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

Airbnb/javascript style guide- they typically cover naming and declaration rules for variables and functions, rules for use of white space, indentation as well as comments, programming practices and principles for example using camelCase for identifier names(variables and functions).

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

I was working on my final capstone and the drag button was not working and it took me a week to be able to solve the problem, the main lesson learnt on that is that for you to be a good developer you must first know exactly what is required of you and gather enough information as you can.
