DWA_01.3 Knowledge Check_DWA1

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

Software will always be complex so it is important to manage complexity because as the code gets more complex it is very simple to make mistakes or errors. Also it may be difficult to locate errors. Managing complexity thus minimizes errors or allows us to notice the errors quicker

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

- -Increasing your code for more functionality(code size)
- -How you structure and name your code
- -Cross functionalities (when the codes are related to one another)
- -Large teams working on a single code
- -Human error

- 3. What are ways in which complexity can be managed in JavaScript?
- -Using the standard way of writing the code
- -Using precision and accuracy
- -Structuring and naming your code correctly
- -Understanding the simplest version of the code, where you began, first level elements and how you wrote them
- -Test your code as you do it, to find errors
- -Commenting

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

Yes, as you begin to write more complex codes it will be more difficult for you to manage the code because you were unable to manage smaller less complex codes. This then means that with a more complex code you will be unable to detect bugs in the code and understand what is happening on the code.

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

Types

- -Primitive example strings you work directly on its value
- -Complex example arrays you work using the reference its assigned

References

- -Always use const when naming variables
- -If the variable is going to change use let

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

IWA17 this because I didn't understand the basics of arrays and how to structure the code. The more complex it got the more difficult it was to put everything together.
