DWA_01.3 Knowledge Check_DWA1

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

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- Managing complexity can make it easy to maintain your code and to update it.
- It also helps make your code more readable and easy to understand.
- Developers can design software that can scale effectively and maintain performance
- Managing complexity in a software is important, as it helps create a software that is easy to maintain, understand, evolve and improving quality

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

- Programming is complex(some types of software are more complex than others)
- Evolving (mostly we don't know everything up front, what we should be building and what the customer wants.
 And because things are changing as you are building your code,
- Technical Debt (when you agave to make a quick fix, when the is a bug or when a
 user needs a certain feature urgently,
 Sometimes you just have to write a quick quote but you have to later fix it
- Scaling (systems grow and user demands increase or changes)

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

- Document comments type (Add comments to add more clarity to the code)
- Shaping your code (making it more clearer of what the code is doing)
- Modular (dividing your code into small, self-contained functions)
 (make it easy to reuse, or be able to use it somewhere else)
- Be more clear when creating contests
- Find common ways to style your code
- Make your variables more descriptive
- Build it in a way that it can not run if it has the wrong value.
- Give guidance to what your code is about

- 4. Are there implications of not managing complexity on a small scale?If you don't manage complexity it leads to issues, like errors
 - It becomes hard to adapt to changing requirements, demands and new challenges.
 - Complexity needs to be managed in small scales as the code needs to change as the product grows. Code is always in flux, you are never done
 - You should always refactor, clean, improving the performance and making it better

- 5. List a couple of codified style guide rules, and explain them in detail.
 - Use single quotes for string
 - Having properties in an object beyond new lines
 - Commas should have a space after them.
 - Using brackets if an if statement is more than a single line
 - global

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

Keeping programs under control is the main problem of programming.

Avoidable "dump"errors, on most of my codes i get bugs where, i have forgot top close brackets, use commas where need...
