

DWA_01.3 Knowledge Check_DWA1

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

When issues or bugs arise in software, it is essential to identify and fix them promptly. Complex code makes it harder to pinpoint the root causes of problems, as there are more interactions and dependencies to consider. By managing complexity, developers can minimize the interdependencies and make debugging and troubleshooting more manageable and efficient.

Technical debt - is the implied cost of future reworking required when choosing an easy but limited solution instead of a better approach that could take more time.

Programming is complex

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

Assignment - Keeping programs under control

Typing errors - Not being specific when declaring

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

Writing clean code./ modularization.

Writing understandable comments.

Declaring variables in an understandable way.

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

Ignoring complexity in small-scale projects may result in accumulating technical debt.

Technical debt refers to shortcuts, compromises, or poor coding practices that lead to suboptimal code quality. Unmanaged complexity contributes to technical debt, making

future updates or modifications more challenging and time-consuming. Accumulated technical debt can hinder the longevity and maintainability of the software.

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

Use single quotes for strings except to avoid escaping

Add a space after keywords.

Add a space before a function declaration's parentheses.

Commas should have a space after them.

Keep else statements on the same line as their curly braces.

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

Declaring variables with the same name, not realizing that i declared my variables with the same name.
