DWA_01.3 Knowledge Check_DWA1

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

*Easier to maintain and update the codebase over time.
*Easier to identify bugs.
*Reduces time to fix bugs .
*Easier for collaboration .

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

*Lack of planning
*Poor documentation
*Poor naming and commenting
*Inconsistency in naming variables

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

*Use JSDoc commenting
*Clear naming of variables/ functions
*Avoid global variables

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

yes, not managing complexity on a small scale leads to :
*Longer debugging
*Less chances of code reusability
*Difficulty in maintaining the code
*Less collaboration

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

*Write clear comments:
-Clear comments are comments that are not vague but precise and meaningful
-Clear commenting can help in solving bugs quicker and also maintaining the bug over a long period of time

*Use JSDoc:
-using JSDoc is documenting data correctly
-By using JSDoc correctly , it makes collaboration easier even when the code is lengthy .

*Use Meaningful variable and function names:
-Naming variables correctly in the correct naming classes and functions being names after what they are performing
-This helps in code readability.

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

*Creating a calendar took me the longest to fix
*This was because of lack of division of task
*and lack of proper understanding of the date object
