DWA_01.3 Knowledge Check_DWA1

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

i) It is important to manage software complexity because it lower the risks of having Bugs and also makes the code easy to read and understand.

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

i) technical challenges
ii) Resource constraints
iii) Uncertainty of project objectives
iv) Changing requirements
V) Lack of understanding, Education and Training
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3. What are ways in which complexity can be managed in JavaScript?

i) Limit your functions and methods to a minimum. If they're getting too big, find a technique to break them up into smaller pieces.

ii) Reuse code wherever possible and create smaller methods which accomplish specific tasks. This can significantly reduce the number of lines and improve readability of your code.

iii) [Use built-in JavaScript functions like flat() or concat() and reduce() to simplify your code](1)1
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4. Are there implications of not managing complexity on a small scale?

i) yes, Lack of understandability can lead to unmanagebility. As complexity increases, identifying the value and function of any

individual element—and where and how to intervene to manage performance—gets harder

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

A). Google javascript guide

B). AIRbnb javascript style guide

C). standard javascript

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

A). Bad variable naming , as a beginner I was a careless in such bugs/ errors I used to just write the code not even aware that they are caps sensibility so I spent days trying to fix this bug.

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