

# DWA\_01.3 Knowledge Check\_DWA1

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

Managing complexity in Software is crucial because it ensures that the code is easy to read, understand, maintain and work with.

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

Several factors can contribute to complexity in Software. One outstanding factor is lack of clear organization or structure within the code, making it difficult to follow the flow of the program.

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

Naming conventions

Comments

Code Review

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

Yes, there are implications of not managing complexity on a small scale as it might lead to your code having Bugs and cause you to have more time working on Debugging the code.

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

Indentation: Giving your code a visual Structure...using consistency spacing at the beginning of the lines of your code to make it more readable and easy to understand.

Naming convention: As a Developer or Programmer it is very important to give variables and functions meaningful names that describe them.

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

In my recent project..." The Book Connect " website where users can search for Books by Authors, Titles and also by Image of the Book.while working on it i faced a bug that took a while to fix .The search results didn't show up correctly and it was confusing it didn't happen all the time one minute it would work the next it stopped...the error message on console didn't help much either . I went through the code over and over again and eventually I managed to get it to work without errors on the console...This experience reminded me of how important it is to pay attention to small things while testing and fixing the code, especially the complex projects.

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