

DWA_01.3 Knowledge Check_DWA1

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

- Prevent catastrophes.
 - Keep track of code.
 - Easier to understand/read for yourself & others.
 - Keep problems under control.
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2. What are the factors that create complexity in Software?

- Programming is complex.
 - Evolving.
 - Technical Debt.
 - Scaling.
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3. What are ways in which complexity can be managed in JavaScript?

- Improved code quality (follow guidelines, naming conventions)
 - Risk management / Bug tracking
 - Improved collaboration (necessary and informative comments)
 - Increased efficiency
 - Maintenance and support.
 - Coding for scalability.
 - Higher quality documentation.
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4. Are there implications of not managing complexity on a small scale?

- Many small, unfixed issues turn into catastrophes.
 - Confusing code readability.
 - Code that is difficult to maintain or update.
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5. List a couple of codified style guide rules and explain them in detail.

- Variable Naming
 - Use const to declare a variable (avoids populating the global namespace & ensures variable is not redeclared)
 - Add extra information (easier to read & maintain)
 - Group related code together (easier debugging)
 - Add checks to throw errors on critical items.
 - Comments (clarifies the intent of the code and help developers understand it)
 - Whitespace - Organize your code with consistent indentation (keep code well organized & readable)
 - Modular Code - Abstract out logic to improve readability (makes code less repetitive)
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6. To date, what bug has taken you the longest to fix - why did it take so long?

- Show More function counter on IWA Capstone Project – was because of a spelling error & incorrect parenthesis placement.
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