

# DWA\_01.3 Knowledge Check\_DWA1

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

- > It influences project planning, coordination, and control
  - > It hinders the clear identification of goals and objectives of major projects
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## 2. What are the factors that create complexity in Software?

- > The dynamic nature of software development
  - > Changing requirements
  - > Technical challenges
  - > Team management
  - > Budget constraints
  - > Timeline pressures
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## 3. What are ways in which complexity can be managed in JavaScript?

- > Write small units of code (function, procedure, methods) but also avoid statements (goto, break, continue) that make the code harder to understand and increase its complexity
  - > Reconnect the simplified components to form an overall system that achieves all of the desired results.
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#### 4. Are there implications of not managing complexity on a small scale?

- > It can hinder productivity and slow down the overall functioning of a small-scale system or organization.
  - > Increased costs: Complexity often introduces additional costs associated with coordination, communication, training, and problem-solving.
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#### 5. List a couple of codified style guide rules, and explain them in detail.

##### > Indentation and Braces Rule:

- Rule: Use consistent indentation and brace placement.
- Explanation: This rule governs the formatting of code blocks and the placement of braces (curly brackets).
- It ensures a consistent and readable code structure

##### > Naming Convention Rule:

- Rule: Follow a consistent naming convention for variables, functions, classes, and other code entities.
- Explanation: This rule governs how identifiers, such as variable names, function names, and class names, should be formatted and named.
- Consistent naming conventions enhance code readability, maintainability, and collaboration among developers.

##### > Commenting Guidelines: Rule: Use comments to explain complex code, clarify intentions, and document important information.

- Explanation: Comments play a vital role in communicating the intent and purpose of code to other developers.
  - They should be used sparingly and strategically to add clarity and context where necessary.
  - Commenting guidelines typically include rules for documenting function signatures
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6. To date, what bug has taken you the longest to fix - why did it take so long?

> When i wanted to round off numbers to two decimal place, i used `perselnt()` instead of `persefloat()`

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