

# DWA\_01.3 Knowledge Check\_DWA1

---

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

- The code's quality and functionality decrease as a result of the time needed to go back and correct the code.
  - If left unchecked, code has the potential to grow in size and complexity, posing challenges when trying to locate specific parts and address any issues.
- 

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

- Inadequate communication.
  - Insufficient training and lack of experience.
  - Code naming and formatting
  - Essentially bigger code that becomes increasingly disorganized and difficult for the developer to maintain.
- 

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

- Decrease the size of the code in areas where it is repetitive or closely resembles each other.
  - Reach consensus on coding conventions to enhance code readability for all team members to have a clear grasp of the code.
  - Utilize comments to clarify your code.
- 

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

- Generating or formulating solutions becomes increasingly challenging.
  - Things can get so complicated that nobody has a clue of what's happening.
  - Issues may become increasingly difficult to address and grow more complicated.
- 

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

Comments - Comments in code help clarify the purpose of the code, making it simpler for the reader to comprehend the intended functionality.

Filename - Rewrite the text in lowercase using dashes or underscores to separate words, but avoid any other punctuation.

---

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

All the bugs in my final DWA project, I struggled with some motivation, loadshedding issues as well as having a lot happening around me.

---