DWA_01.3 Knowledge Check_DWA1

- 1. Why is it important to manage complexity in Software?
 - managing complexity in software development is important because it helps you
 create a code that is easier to understand, maintain, and extend. It directly
 impacts the quality and longevity of the software, making it more reliable,
 scalable, and cost-effective.

- 2. What are the factors that create complexity in Software?
 - Changing requirements
 - Resource constraints
 - Technical challenges
 - Multiple system interfaces
 - Complex requirements
 - Features and functionality of the system

- 3. What are ways in which complexity can be managed in JavaScript?
 - Asynchronous Programming
 - Optimize Code Performance
 - Understand Algorithmic Complexity:
 - Maintain Clear Boundaries:

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

Failing to manage complexity on a small scale can cause various problems that reduce productivity, raise maintenance efforts, and negatively impact the software's quality and scalability. Actively managing complexity, even in smaller projects, establishes a solid foundation for future growth and easier maintenance.

- 5. List a couple of codified style guide rules, and explain them in detail.
- 1. Use Consistent Naming Conventions
- : Use camelCase for variable and function names, PascalCase for class names, and UPPER_SNAKE_CASE for constants.
- 2. Indentation and Spacing

Use 2 spaces per indentation level and avoid using tabs.

3. Use Semicolons

Always terminate statements with semicolons.

6. 7	ō d	ate, w	hat	bug	has tal	ken you th	ne longest to fi	x - why did it tal	ke so long?
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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.