DWA_01.3 Knowledge Check_DWA1

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

- To reduce software complexity, the developer should write a small unit of code and again the developer should avoid statements that will make the code difficult to understand and increase its complexity.

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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?

- Accept it
- Expect surprises and be prepared to change your understanding or point of view
- Practice holistic, non-linear thinking
- Avoid the trap of analysis paralysis and start acting

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4. Are there implications of not managing complexity on a small scale?
- Yes, implications are there as automation impacts on the routine tasks that still remain in modern workplaces, enabling autonomy, meaningful work and opportunity to continuously learn and grow will become more and more important.

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

- **Web standards**
  > It helps to standardize the way in which a website can interact with assistive technologies
- **Using modern JavaScript features**
  >You can use new features once every major browser is used like Chrome, Edge, Firefox, and Safari so that it can supports them
- **Choosing a format**
  > Opinions on correct indentation, whitespace, and line lengths have always been controversial.
- **Spacing and indentation**
  > Mark indentation with *2* spaces in the code and usually we do not use the tab character.

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

- It took me weeks, because It was very difficult to fix the code I couldn't understand what a bug is but fortunately I was able to get help and they tried to make the code bug was fixed

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