DWA_07.4 Knowledge Check_DWA7

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1. Which were the three best abstractions, and why?
   A) Importing the required data from the ./data.js, because allows the code to access the necessary data without directly specifying the module's path.

   B) The generateOptions function is a helpful tool because it simplifies the process of creating options for a select dropdown in HTML by taking in specific information such as data, container, defaultValue, and defaultLabel as input, and then uses a loop and a document fragment to create the options dynamically.

   C) The setTheme function is a useful tool because it simplifies the process of changing the theme of a document. Using this function improves the organization and maintainability of the code.

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2. Which were the three worst abstractions, and why?
   A) HideOverlay, A generic function that can hide any element by applying a CSS class or modifying its style properties would offer more flexibility, customization, and reusability. It allows for easier hiding of different elements and can be used multiple times throughout the code. This approach promotes efficient code management and reduces duplication.

   B) Media query check for preferred color scheme, it is worse abstraction because it is closely tied to the setTheme function and I think it would be beneficial to separate the media query check from the theme-setting code.

   C) Initialization of variables, it may be unclear why these variables are being initialized or how they will be used later in the code.

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3. How can The three worst abstractions be improved via SOLID principles.
   A) Media query check for preferred color scheme: Separate the media query check from the theme-setting code by creating a dedicated class or function for handling the check.

B) Initialization of variables, ensure each variable has a clear purpose and responsibility, avoiding unnecessary initializations.

C) HideOverlay, ensure the function only focuses on hiding elements and doesn't have additional responsibilities.

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