

DWA_07.4 Knowledge Check_DWA7

1. Which were the three best abstractions, and why?

createElement Function - The createElement function abstracts the process of creating DOM elements with attributes and inner HTML. It reduces code duplication and enhances code readability by encapsulating the repetitive task of creating elements.

updateBookList Function - The function abstracts updating the book list based on filtered data. It encapsulates the logic for updating the displayed books, including handling pagination, message display, and enabling/disabling the “Show more” button.

populateSelect Function - The populateSelect function abstracts the process of populating select elements with options based on data. It simplifies the code and enhances maintainability by encapsulating the logic for creating and appending options. It also provides a default option for select elements, improving user experience.

2. Which were the three worst abstractions, and why?

Inline Event Listeners - the code uses inline event listeners on HTML elements. This mixes the structure of HTML and JavaScript, making the code less modular and harder to maintain.

Manual DOM Element Search - the code uses “document.querySelector” multiple times to find and manipulate DOM elements.

3. How can The three worst abstractions be improved via SOLID principles.

Move event handling to a separate module or class, adhering to the Single Responsibility Principle.

Create a View class or module responsible for managing the DOM elements.
Encapsulate the DOM manipulation logic within this class, adhering to the SOLID.
