

# Factors in Choosing Web Development Debugging Strategies

Note: The examples are made to help you understand the context of the issue. In your responses, think about the generality of the problem rather than focusing on the provided example scenarios.

## Issue 1. Inconsistencies

Inconsistencies in web development can occur in multiple aspects, including but not limited to rendering, layout, and behavior.

Components on the web page are not synchronized, leading to UI issues. Below are two examples:

- Elements display differently across browsers or devices, causing layout inconsistencies.
- Sporadic or non-replicable errors occur, such as variations in filtered results or data loading

## Issue 2. Handling and Synchronizing Asynchronous Operations in Web Development

Handling asynchronous operations using callbacks, ensuring proper handling of tasks like API calls and setTimeout functions to prevent unexpected behavior or errors is challenging in web development:

- One example is button clicks, which fail to reflect the anticipated updates in page state, resulting in discrepancies between the expected changes in data and the actual behavior of the web application.