

Identified Issue :

1. Items that are not on the product list can still be added and appear in the cart during checkout by triggering from a link with a different product name.
2. When the checkout is executed, it seems like nothing happens because there are no actions triggered, such as successful notifications or clearing the cart.
3. The checkout still proceeds successfully even if the user's balance is insufficient.

Root Cause :

1. There is no check for product availability when adding a product to the cart in the addToCartHandler function.
2. No actions are triggered in the checkoutHandler function; it only performs calculations.
3. The checkoutHandler function lacks a condition to prevent checkout if the total purchase exceeds the balance.

Solution Implemented :

1. Validate product availability. If the product is not available, it cannot be added to the cart.
2. Trigger actions when checkout is executed, such as displaying a "success" notification and clearing the cart.
3. Add logic to the checkoutHandler function: if the total purchase exceeds the balance, prevent checkout or suggest topping up the balance; if not, allow successful checkout.

Recommendations :

1. Adding a feature to view the current balance, both before and after checkout.
2. Adding a logout feature.
3. Adding a feature to top up the balance.
4. Adding a feature to edit and delete the cart.