

## Test Analysis:

### From UI:

Bugs & Issues	Description	Reference
1. Product Color Auto-Change	Upon selecting the product size (S) before choosing a color, the color defaults to pink automatically. This issue occurs on the product page: <a href="#">Nike React Phantom Run Flyknit 2</a> .	<a href="#">Screenshot with Markings</a>
2. Cart Behavior on Screen Resize	When an item is removed from the cart on a mobile-sized window, it gets removed correctly. However, upon expanding the window size, the removed item reappears visually while still remains removed in the cart icon.	<a href="#">Explanation Video</a>
3. Input Field Validation & Checkout Anomalies	<ul style="list-style-type: none"><li>● No validation for input fields. Fields accept data without restrictions.</li><li>● Notes persist even without pressing the <b>Save</b> button.</li><li>● Some non shippable countries are selectable. They shouldn't be here.</li><li>● Only <b>Cash on Delivery</b> functions properly, while Visa card input has issues with the Month/Year fields.</li><li>● The Thank You screen shows a constant item subtotal of 1 in the screenshot named <a href="#">finalScreen-2.png</a>, regardless of the actual quantity ordered.</li><li>● When resizing the window on the Checkout page, product details are not displayed correctly.</li></ul>	<a href="#">Screenshots</a>

Apart from these, this website needs optimizations. Like sometimes I need to press the back button multiple times just to cancel an operation. Pressing

the keyboard doesn't work in Search Box, Quantity slider in the Cart. Site reloads for every action. These are my findings from the UI.

**From API:**

Unlike UI I didn't really face any major problem while testing the API's of the Search function to Cart checkout. However I am mentioning all the API's I have tested with the description.

API	Method	Status	Behavior
Search Result	GET	200 (Success)	API and UI outputs match. No mismatches found between the search results displayed in the UI and the API response in Postman.
Add to Cart	POST	200 (Success)	Works correctly with valid input. API response aligns with the UI behavior.
Cart Retrieval	GET	200 (Success)	Works as expected when the Cart screen is open in the browser. When the browser is closed, the API returns NULL in the output.
Increase/Decrease Product Quantity	PATCH	200/500 (Mixed)	Functions correctly (200) if the Cart screen is already launched. Status code 500 occurs when I am using Postman without an active session. Maybe session dependent behavior.
Delete Product	DELETE	500 (Error)	This API fails with a 500 error when tested through Postman. Possible session or input validation issue.
Add Note	POST	200 (Success)	Works properly. Updates in Postman reflect accurately in the UI. Also Session based.

Email and Address	POST	200 (Success)	API updates match the UI. However, the API accepts various input types (strings, numbers) while the fields are declared as String in the API documentation. In my opinion Clear data type declaration is better.
Final Checkout	GET	200 (Success)	Works as expected. API data is accurate in Postman, but mismatches with UI in the Sub Total Item number. API shows the exact number of products added but UI always shows 1.

These are findings from the API. As I mentioned earlier not many issues but with a properly developed website these API might work well. Most of the PATCH/POST method doesn't work well directly in Postman because of an active session required or cookies related I am not sure.