

Evershop Demo API Documentation

Add Product to Cart Endpoint

June 5, 2025

1. Introduction

This document describes and analyzes the behavior of the 'Add to Cart' API in the Evershop Demo site, specifically focusing on discrepancies observed when interacting with product variants.

2. Endpoint Overview

Endpoint
Method: POST URL: /api/cart/mine/items

3. Scope

In Scope:

- UI to backend flow verification for product variant selection.
- JSON payload validation.
- Response accuracy.

Out of Scope:

- Backend service load/performance testing.
- API security, authentication.
- Payment processing and order finalization.

4. Request Payload

Expected request sent when the user adds a product to cart:

```
{
  "qty": 2,
  "sku": "NJC93155-Black-S"
}
```

Listing 1: Expected JSON Payload

5. Actual Response Received

```
{
  "data": {
    "item": {
      "product_name": "Nike odyssey react flyknit 2",
      "product_sku": "NJC93155-Pink-XL",
      "qty": 4,
      "variant_options": "[{\"attribute_name\":\"Size\", \"option_text\":\"XL\"},{\"attribute_name\":\"Color\", \"option_text\":\"Pink\"}]",
      "line_total": 3428
    },
    "count": 1,
    "cartId": "fd3c6510-0d27-4e78-8ac3-fe8a12ca64fb"
  }
}
```

Listing 2: Sample API Response

6. Issue Summary

- **Variant mismatch:** The response returned a different variant (Pink, XL) despite the selection of Black, S.
- **Quantity mismatch:** Request asked for 2 units; response returned 4.

7. Comparison Table

Field	Expected	Actual
Product SKU	NJC93155-Black-S	NJC93155-Pink-XL
Quantity	2	4
Variant - Size	S	XL
Variant - Color	Black	Pink
Image Thumbnail	Black Variant	Pink Variant

8. Root Cause Hypotheses

- SKU selection mapping on UI is not synced correctly with backend.
- Incorrect payload generated from UI or intercepted en route.
- Server-side logic defaults to incorrect variant if input SKU not matched.

9. Screenshot Evidence

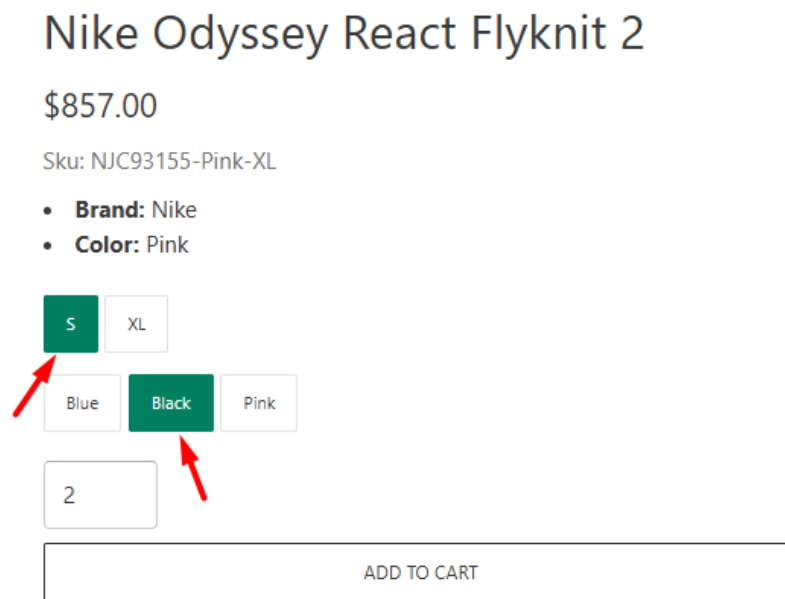


Figure 1: UI showing selected variant: Black, Size S

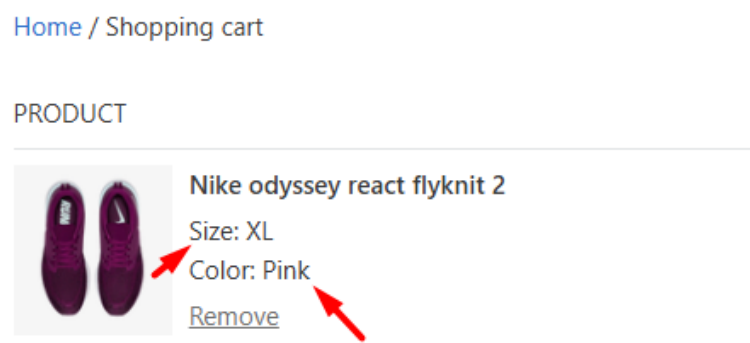


Figure 2: Cart displaying variant: Pink, Size XL

10. Recommendations

1. Validate SKU mappings on both client and server.
2. Add assertions in backend logic to verify that the SKU matches the requested variant.
3. Implement frontend confirmation of selected attributes before submitting to the cart.
4. Enhance logging for API payloads and responses.