

Assumptions

1. Price field accepts values with up to 2 decimal places (e.g., 10.99).
2. Quantity must be a positive integer greater than 0.
3. Maximum value for Price and Quantity is not restricted unless specified.
4. Discount codes are expected to be applied to the total cart value, not per item.
5. Input fields should not accept non-numeric characters.

Open Questions / Clarifications

1. What is the maximum allowed value for:
 - Price?
 - Quantity?
2. Should Price support more than 2 decimal places?
3. How should the system behave for edge cases:
 - Price = 0?
 - Quantity = 0?
4. Should discount be applied:
 - Per item?
 - Or to the total cart amount?
5. What rounding rules should be used for discount calculations?
6. Should negative values be validated on UI level, API level, or both?

Bugs:

- Discount code is applied only to the first item in cart
- Price field accepts non-numeric characters
- No maximum limit for Price and Quantity values
- Total amount mismatch when discount is applied to values with two decimal places
- Subtotal is rounded when enter 99999999999999999999
- Discount for value more than 9999999999999999999987 unreadable

Title: BE Discount code is applied only to the first item in cart

Severity: High

Priority: High

Environment: Localhost Browser: Chrome

Steps:

Add 2 items

Apply one of the Discount code (for example HALF)

AR: Discount applied only to the first item

ER: Discount applied to the all items in the cart

ADD ITEM

Item Name

Price (\$)

Quantity

Add to Cart

Cart Items

test \$100.00 x 2	\$200.00	Remove
test \$150.00 x 2	\$300.00	Remove

Discount Code

 [Apply](#)

Available codes: SAVE10, SAVE20, HALF

Order Summary

Subtotal:	\$500.00
Discount:	-\$100.00
Total:	\$400.00

Title: FE Price field accepts non-numeric characters

Severity: Medium

Priority: Medium

Environment: Localhost Browser: Chrome

Steps:

Add - and e to the Price record

AR: Price record accept this value

ER: Price input should apply only positive integer value OR 404 error

The screenshot shows the 'Add Item' form with the following fields and values:

- Item Name: 324234
- Price (\$): e2124
- Quantity: 1

A validation error message is displayed over the Price field: "Please enter a number." Below the form is an "Add to Cart" button.

Title: No maximum limit for Price and Quantity values

Severity: Medium

Priority: Medium

Type: Validation / Edge Case

Steps:

Add price 999999999999999999

Add Quantity 999999999999999999

AR: Items is created

ER: Price input should have restriction OR 404 error when value is too high

The image contains three screenshots illustrating the application's behavior:

- Left Screenshot:** Shows the 'Add to Cart' button and the 'Cart Items' section. The cart contains one item with a price of \$1e+36 and a quantity of 1. The 'Order Summary' shows a subtotal of \$1e+36 and a total of \$5e+35.
- Middle Screenshot:** Shows the 'Add Item' form with the price field set to 999999999999999999 and the quantity field set to 999999999999999999. The 'Add to Cart' button is visible.
- Right Screenshot:** Shows the browser's developer console with a JavaScript error: "Uncaught RangeError: Invalid array length". The error message is: "RangeError: Invalid array length". The error occurred in the file "index.html" at line 10, column 10. The error stack trace shows the error originated in the "add" function.

Title: Total amount mismatch when discount is applied to values with two decimal places

Severity: High

Priority: Medium

Type: Validation / Edge Case

Steps:

Add price 0.25

Add Quantity 1

Apply discount (for example HALF)

AR: Total value displayed as 0,13

ER: Total value should be displayed as 0,12 OR discount should be displayed as 0.12

Discount Code

HALF Apply

Available codes: SAVE10, SAVE20, HALF

Order Summary

Subtotal:	\$0.25
Discount:	-\$0.13
Total:	\$0.13

FE Subtotal is rounded when enter 99999999999999999999
<https://icecreamapps.com/v/eux9fq5>

Discount for value more than 9999999999999999999987 unreadable

Cart Items

asdad \$1e+22 Remove

Discount Code

HALF Apply

Available codes: SAVE10, SAVE20, HALF

Order Summary

Subtotal:	\$1e+22
Discount:	-\$5e+21
Total:	\$5e+21