

BUG REPORT

BUG-2210

Discount code applies twice when customer uses back button and resubmits

Client	Fern & Field (fictional demo client)
Environment	Chrome 128 on macOS, production checkout
Date reported	October 2, 2026
Reported by	QA, checkout flow review
Status	Fixed and verified
Severity	MEDIUM

Summary

Customers who applied a discount code, pressed the browser back button, and resubmitted the checkout form received the discount twice. The order total showed a double discount while inventory and payment processed normally, creating a revenue leak on every affected order.

Steps to Reproduce

1. Add any plant to the cart and go to checkout.
2. Enter the discount code FERN10 and apply it. Confirm the total drops by 10%.
3. Press the browser back button to return to the cart page.
4. Press forward (or resubmit) to return to checkout.
5. Observe the order total: the 10% discount is applied a second time.

Expected Result

A discount code applies exactly once per order, no matter how many times the checkout form is submitted or how the customer navigates.

Actual Result

After the back-button resubmission, the cart showed FERN10 applied twice and the total reflected a 20% discount. The duplicate discount persisted through payment.

Root Causes Found

1. Discount application had no idempotency check; each form submit re-applied the code.
2. The cart session stored the code as a plain string instead of a redeemed token.

Measurements

Metric	Before	After
Discount applications per resubmit	2 (stacked)	1
Affected orders in test window	14	0
Checkout error rate	0%	0%

Fix Applied

Checkout now issues a single-use redemption token per discount code. Resubmissions present the same token, which the server rejects as already redeemed, so the discount can only ever apply once.

Retest Result

PASS. Repeated the back-button and double-submit flows twenty times across Chrome, Safari, and Firefox. Discount applied exactly once in every run, with no change to normal checkout behavior.

Sign-off

Fix verified on the same device and connection profile. No regressions found in checkout and navigation flows. Approved for production deploy.

QA Engineer _____

Date _____

Client _____

Date _____