



# QA Automation Baseline

An executed example of twelve checks around a small pricing component, with a proposed path to continuous integration.

## Demonstration scope

Axtryll built a small quote-calculation component and an automated Node.js test suite. The suite covers nominal behavior, currency rounding, policy limits, and invalid inputs. It was executed locally on September 4, 2026.

**12**

automated checks

**12**

checks passed

**0**

failures

## Coverage strategy

- Happy paths for base pricing and allowed discounts.
- Allowed boundaries: one seat, 10,000 seats, and the maximum discount.
- Validation failures: zero, fractional, or excessive seats; a zero price; negative or excessive discounts.
- One deterministic currency-rounding case.

# Execution evidence

| Area                          | Checks | Result | Risk addressed                                     |
|-------------------------------|--------|--------|----------------------------------------------------|
| Calculation                   | 3      | Passed | Incorrect subtotal, discount, or currency rounding |
| Allowed boundaries            | 3      | Passed | Valid edge inputs rejected                         |
| Seat validation               | 3      | Passed | Invalid quantity accepted                          |
| Price and discount validation | 3      | Passed | Invalid commercial rules accepted                  |

# Proposed CI pipeline

| Commit       | Static checks      | Unit tests             | Artifact                | Release gate     |
|--------------|--------------------|------------------------|-------------------------|------------------|
| Pull request | Lint + type checks | 12 deterministic cases | Machine-readable report | Block on failure |

# Next production steps

- Add API contract tests and authentication/authorization cases.
- Add browser coverage for the highest-value user flows.
- Track flaky-test rate, escaped defects, duration, and failure ownership.
- Run the suite on pull requests and retain artifacts for auditability.

# Evidence note

Original synthetic demonstration, first run September 4, 2026. The same source passed all 12 named checks again on September 19, 2026. Source and the captured recheck are attached to the website PDF. This establishes those cases only, not browser coverage, production reliability, or client results.