Test Evidence (Critical Requirements)

Date: 2026-02-16
Project: CollabBoard MVP-1

Automated Evidence Run

Command used:

```
scripts/run-critical-checks.sh
```

Latest artifact:

- submission/test-artifacts/critical-checks-1771279723.json
- submission/test-artifacts/critical-checks-1771279723.log

Results Summary

Critical check	Result	Evidence
Simultaneous AI commands from multiple users	PASS	Two authenticated users submitted concurrent commands, both returned success
Deterministic FIFO queue behavior	PASS	queueSequence values persisted in strict processing order
Idempotency (clientCommandId)	PASS	Duplicate command returned idempotent: true
Throttled/disconnect retry behavior	PASS	First request timed out (curl exit 28), retry completed successfully
5+ authenticated users activity	PASS	Five authenticated users executed concurrent command burst, all success

Playwright Evidence

Command used:

```
cd app && npm run test:e2e
```

Result:

- 6 passed
- 5 skipped (manual/auth-required demo flows)

Requirement Coverage Matrix

Requirement	Status	Notes
Throttle network speed during testing	PASS (backend/API path)	Simulated low-bandwidth + timeout retry via authenticated command flow
Simultaneous AI commands from multiple users	PASS	Verified with 2 real authenticated users and queue evidence
5+ users with auth	PASS (backend/API path)	Verified with 5 authenticated temp users

Reconnect/disconnect recovery	PASS (backend/API retry semantics)	Timeout/retry succeeded without duplicate corruption
Full authenticated UI E2E (Google OAuth flow)	PARTIAL	Manual due OAuth interactive constraints

Notes

- The backend critical behaviors are now reproducibly validated with real Firebase-authenticated users.
- Remaining manual portion is end-to-end UI OAuth interaction (expected for hosted Google popup auth).