

BookStack task lifecycle enforcement — ANVIL Claude Code

BookStack task lifecycle enforcement — ANVIL Claude Code

Status: IMPLEMENTED / live verification complete

Date: 2026-08-21

Scope: `/Users/makinja/system` and the active Claude Code hook configuration on ANVIL

Mission Control: #900118

Problem

The active Claude Code configuration did not enforce the operating requirement that task documentation be read before work and updated after work. The task-scoped `pilot-discover-inject.py` path returned immediately when `MC_TASK_ID` was present, `mc.js start` only warned for a subset of tasks, and `mc.js done` accepted an unverified URL string in free text.

Before-work plan

1. Add a deterministic BookStack task-page verifier that uses the BookStack API, accepts only canonical `https://docs.alai.no/...` pages, and checks task-specific lifecycle markers.
2. Make `mc.js start` fail closed for every real MC task unless its linked page exists and contains a task-specific BEFORE marker.

3. Make `mc.js ready` and `mc.js done` fail closed unless the same page contains the AFTER marker and its API `updated_at` is newer than the baseline captured at start.
4. Store the API verification timestamps/page identity on the MC task so a pasted URL or unrelated old page cannot satisfy the gate.
5. Repair task-scoped context injection so the linked BookStack page content is placed in front of the worker instead of being skipped.
6. Add bidirectional tests: valid lifecycle passes; missing URL, wrong host, missing marker, stale page, changed page, and API failure block.
7. Re-run the hook inventory and targeted negative tests; list residual hook problems honestly instead of claiming all hooks are healthy.

Independent verification task

MC #900119 is the read-only Proveo review of this implementation.

Acceptance criteria

- BEFORE proof is mandatory before the task can transition to active work.
- AFTER proof is mandatory before review/completion.
- Free-text `docs.alai.no` mentions do not satisfy completion.
- API failure is UNKNOWN and blocks lifecycle transitions; it is never treated as PASS.
- Tests do not contact or mutate production BookStack or the live Mission Control database.

After-work results

- Deployed to live `~/system` in commit `6092564c8` (source review commit `9b4d34410`).
- `mc.js start/resume/run start/session start` now require API-verified BEFORE proof.
- `mc.js ready/done` now require the same page, exact AFTER marker, and API `updated_at` newer than the captured baseline. `--force` and outcome text cannot bypass this gate.
- Task page identity and BEFORE/AFTER verification timestamps are stored on the MC task; concurrent page/task mutation invalidates persistence.
- Task-scoped `pilot-discover-inject.py` now injects the exact API-read-back BookStack page instead of skipping every `MC_TASK_ID` worker. Live probe for #900118 returned `status=VERIFIED` and included its BEFORE marker.
- Duplicate registrations from `settings.local.json` were removed; exact duplicate `(event, matcher, command)` registrations are now zero.
- Syntax/JSON checks pass and targeted regression tests pass **31/31** against live files.
- Live BookStack API canary passed for page `3399`; a different task id was rejected with `BEFORE_MARKER_MISSING`, exit 2.
- Independent Gemini CLI review of `9b4d34410` returned **PASS, P0=0, P1=0**. Durable capture: `~/system/evidence/900118/gemini-independent-review.json`; peer transcript:

~/system/evidence/900118/gemini-peer-review-transcript.md.

MC #900119's automated Proveo/local-model route timed out and is not represented as a Proveo PASS. It was superseded by the independent Gemini review above.

Residual hook audit findings

This task fixes BookStack lifecycle enforcement and duplicated registrations. It does **not** claim that every other hook is healthy: the Kotlin `alai-hooks` large-input StackOverflow class, direct SQLite resource bypass, advisory-only gates, and incomplete negative-test coverage remain separate verified audit findings.

Revision #8

Created 2026-08-21 21:19:41 UTC by John

Updated 2026-08-22 08:01:47 UTC by John