JASON TREACY / INDEPENDENT APPLIED AI PROJECT

Designing AI workflows that verify their actions.

Olympus connects agents, email, meetings, and knowledge management. The design work centers on clear requirements, useful integrations, and evidence that an action actually completed.

My contribution

I define product requirements, workflow architecture, operating rules, and acceptance criteria. I direct development with Claude Code and Codex, review behavior against the requirements, and use test and execution records to guide the next change.

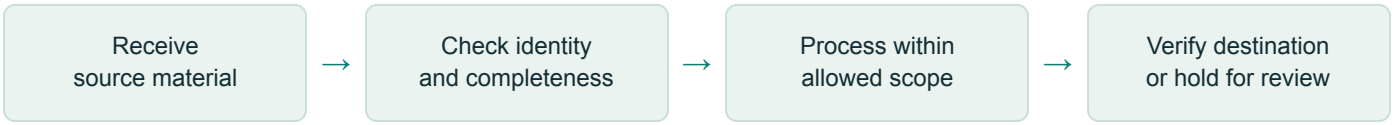
The problem

Information arrives through different tools, and turning it into useful follow-up creates repeated manual work. An automated workflow also needs to handle incomplete inputs, duplicate records, and external requests whose results are uncertain.

The system

A personal automation system across two Macs, built on existing models and agent software. Workflows connect meeting capture, email handling, and a Notion/Obsidian knowledge base, with separate responsibilities and permission boundaries.

A simplified workflow



Illustrative architecture. Different workflows use different checks; an uncertain action stops for inspection.

What I designed for

Each workflow needs a defined source, an owner, allowed actions, and a checkable finish. For meeting notes, that includes source and revision checks. For external changes, it includes recording an attempted action and deciding what evidence is required before another write is safe.

Build the failure path into the requirements.

Uncertain API result	Record the attempt before dispatch. Preserve unresolved state when an acknowledgement is lost or invalid, and stop further changes until the destination is checked.
Incomplete source	Keep failed reads distinct from empty results. Validate source identity and revision before processing; surface missing information instead of inventing it.
Conflicting ownership	Re-check whether a document belongs to the sync before updating it. Preserve native content and stop when ownership cannot be established.
False success	Separate a process finishing from a destination being correct. Use execution receipts and independent readback for the specific outputs being validated.

Documented validation

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Email workflow tests

Functional and simulated-fault tests passed locally, in staging, and against installed source. September 8, 2026.

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Knowledge-sync tests

A separate operations suite covered ownership, pagination, failed reads, uncertain writes, and receipts. September 9, 2026.

The knowledge-sync verification also checked one actual changed document independently at the destination. The same execution reported 833 unchanged files and zero errors.

These are dated engineering checks, not model-accuracy scores or uptime measurements. Mail mutation faults were simulated. One verified document does not establish every document's correctness. The two test suites are reported separately.

What this demonstrates

Requirements definition, integration design, operational troubleshooting, and acceptance testing for applied AI workflows. Olympus is an independent personal project; it uses existing models and runtimes and is not a claimed enterprise AI rollout.

> A workflow is ready to use when its expected behavior and its failure behavior can both be explained and checked.