

OpenClaw Validated the AI Soul



Personality Over Rules

Defining a personality works better than hardcoding behavior. The model naturally derives human-like inferences.

The Heartbeat Threshold

Proactive outreach crosses the line from a utility tool to a living entity. Timer-based polling proved this experience is vital.

The Reality Check

The illusion of life is perfect, but the underlying engine is struggling to sustain it.

The Architectural Ceiling Requires a Total Rebuild



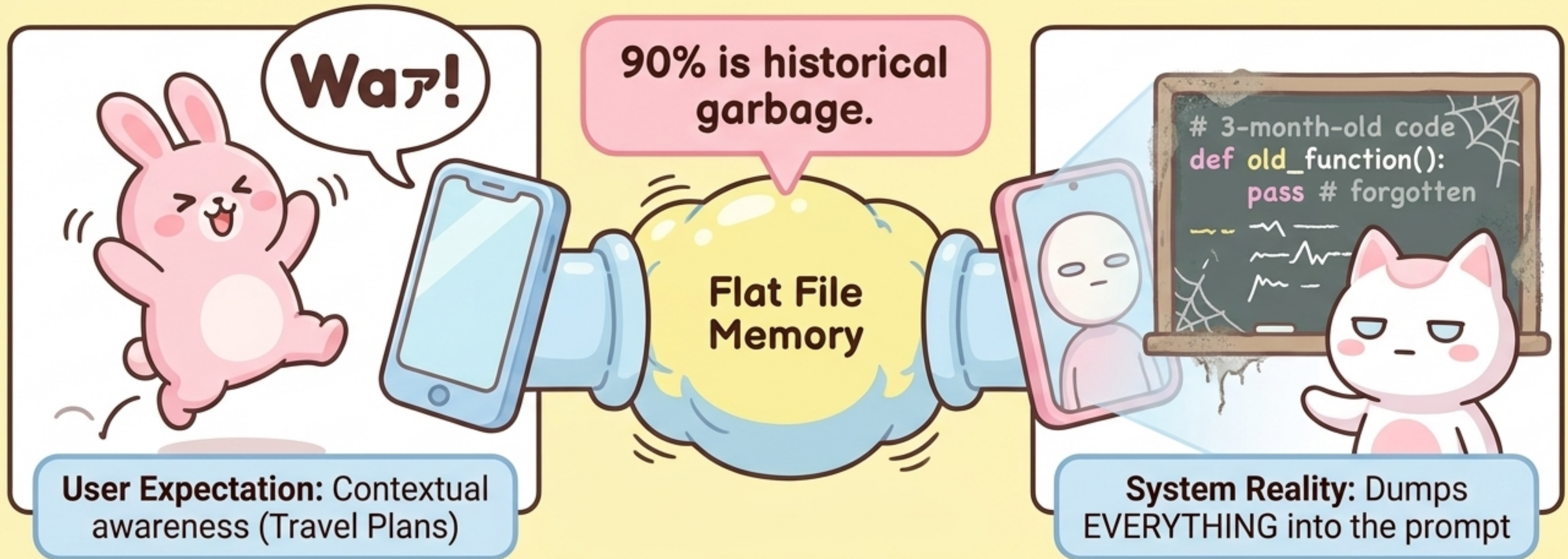
OpenClaw (The Truck Chassis)

- General-purpose utility framework.
- 80% unused bloatware (collaboration features, task managers).
- Flat-file memory causing context bloat (10x token waste).

Mio (The Sports Car)

- Purpose-built exclusively for AI companions.
- Streamlined monorepo (pnpm + Turborepo).
- Deep memory engine with extreme token efficiency.

Flat Memory Creates Disastrous Context Bloat



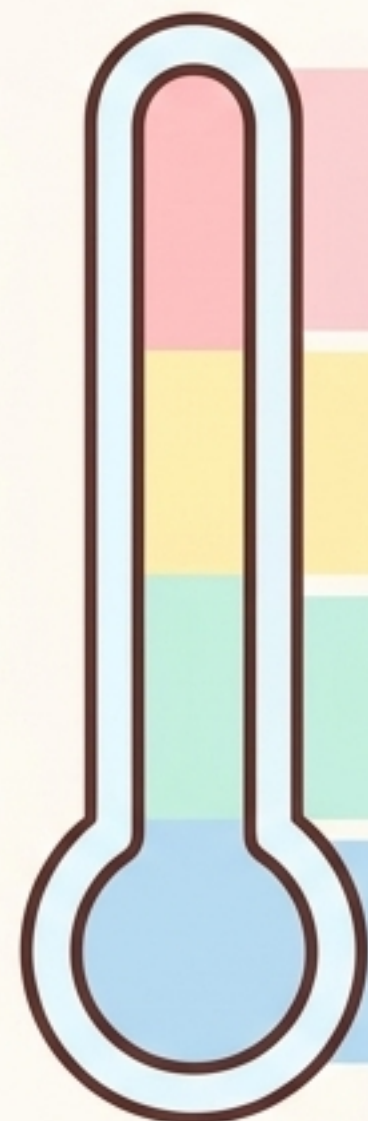
Mio's Deep Memory Engine

- **Hybrid Search:** pgvector (semantic) + tsvector (keyword)
- **Temporal Decay:** 30-day default half-life protects recent context
- **LLM Reranking:** gemini-2.0-flash precision-ranks relevant candidates

True Companionship Requires an Emotion Engine



Emotion State Machine



Hot: Chatty, unprompted sharing, occasionally flirty. Model-generated proactivity.

Warm: Natural conversational flow.

Cool: Natural conversational flow.

Cold: Short replies, zero-cost LLM templates. Hint of hurt feelings.

Proactive System Specs

- Heartbeat query evaluates sessions every 30 mins.
- Respects quiet hours based on user timezone.
- Caps at 3 proactive messages daily.
- Dynamically shifts emotion state.

Lifelike Presence is the Ultimate Vision

Continuous Learning

Personality Extractor runs every 10 messages. Memory Summarizer runs every 20. The AI grows alongside you.

Real-time Grounding

Google Search integration enabled by default. Casually checks weather, news, and facts without breaking character.



Multimodal Future

Independent @mio/channels. Ready for Voice, Selfies, and Wearable device integration.

From validating the idea with OpenClaw to building it right with Mio.