

AI Research Assistant: The Scholar's Operating System

The first AI-native, offline-capable workspace unifying literature, writing, and researcher wellbeing.



Live Demo: <https://ai-research-assistant-mocha.vercel.app> ↗

The Fragmentation Tax

Researchers currently lose hours context-switching between 6–10 disconnected apps. Data spans varying formats with no central intelligence.

30–40%

of time spent on administrative tasks rather than actual research (Nature, 2023).



A Unified, Context-Aware Workspace

Replace 6+ disconnected tools with one integrated platform that understands your research context.



AI-Native: Gemini 2.5 Flash + GPT-4o fallback



Offline-First: Zero latency, works without internet



Bilingual: Native English & Simplified Chinese

Module A — The Research Core



Dedicated workspaces for every hypothesis with isolated citation lists.



Integrator: reading status, PDF management, and custom uploads.



Writing: Drafting tools connected directly to your specific project citations.

Module B — Context-Aware Intelligence

Unlike generic chatbots, this system knows your specific project data, institution, and research focus.

AI Chat Interface

Gemini 2.5 Flash / GPT-4o

Summarize the methodology of the Smith 2023 paper.

Smith et al. (2023) employed a mixed-methods approach, combining qualitative interviews with 50 academic researchers and quantitative surveys from 1,200 participants. Their methodology focused on thematic analysis of interview transcripts and statistical modeling (SEM) of survey data to identify key factors influencing AI adoption in research workflows. Key instruments included a newly developed AI trust scale and a workflow efficiency index.

- **Dual-Model Architecture:** Gemini 2.5 Flash for speed + GPT-4o for depth.
- **Morphmind:** Agentic workflow integration.

Knowledge Map

```
graph TD; Smith2023((Smith 2023)) --- Jones2021_1((Jones 2021)); Smith2023 --- Jones2021_2((Jones 2021)); Smith2023 --- ChenLee2022((Chen & Lee 2022)); Smith2023 --- Citations((Citations)); Smith2023 --- WorkflowEfficiency((Workflow Efficiency)); Smith2023 --- AITrustScale((AI Trust Scale)); Smith2023 --- MethodologyReview((Methodology Review)); Jones2021_1 --- Unlabeled1(( )); Jones2021_1 --- Unlabeled2(( ));
```

Module C — Protecting the Researcher

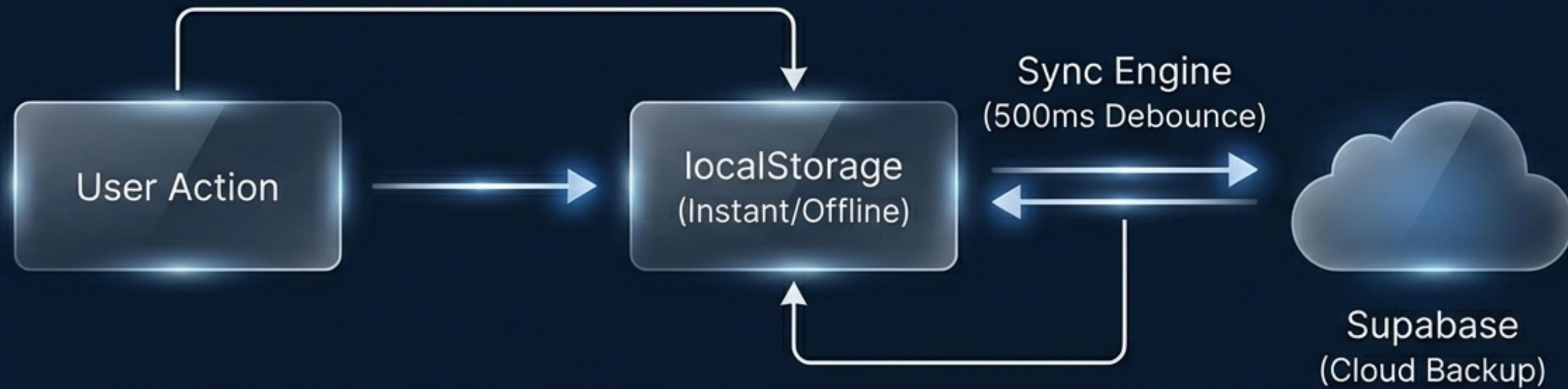
A workspace designed to manage burnout, not just bibliographies.



- **RPG System:** Track XP, streaks, and energy levels based on 14+ tracked actions.
- **Wellness Tools:** Integrated Pomodoro timers and outfit suggestions based on local weather.
- **Lounge:** Embedded stress-relief games.

Zero Latency. Zero Downtime.

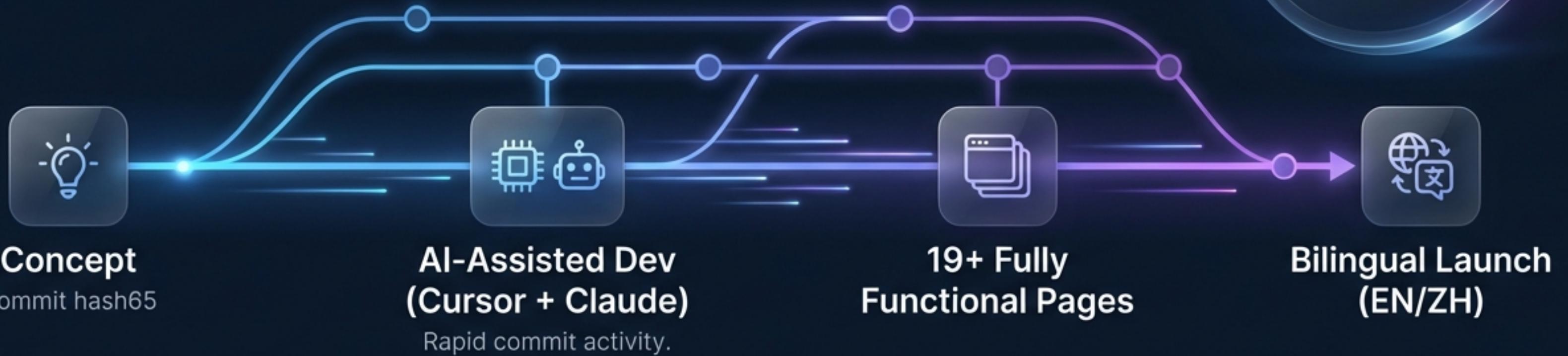
Reads are instant. Writes are asynchronous. Fully functional offline.



The app prioritizes local performance. It works fully on a flight, in the field, or without a backend. Cloud sync is optional.

Academic SaaS

From Concept to Live V1.0 in <48 Hours



- **Tech Stack:** Next.js 16, TypeScript 5, Tailwind CSS
- **Global Launch:** Bilingual and Mobile-Responsive on Day 1
- **Implied Capability:** Rapid iteration and scalability.

A Global, \$12B Opportunity



Strategy: Bilingual architecture targets the two largest academic markets simultaneously. Freemium entry leads to institutional adoption.

The Only Full-Lifecycle Platform

Competitors specialize in one vertical. We integrate the entire workflow.

	AI Research Assistant (Us)	Zotero	Notion	Overleaf	ChatGPT
Reference Mgmt	●	●	●	○	○
Project Context	●	○	●	●	●
AI Integration	●	●	○	○	●
Offline Mode	●	●	○	●	○
Gamification	●	○	●	○	○

Business Model

Free (Growth)

Local-first architecture

- ✓ Core features included
- ✓ 1 AI model access

Pro (\$8/mo)

Cloud sync enabled

- ✓ Cloud sync enabled
- ✓ GPT-4o priority access
- ✓ Unlimited Flashcards

Institutional (Scale)

SSO Integration

- 👤 SSO Integration
- 🌐 Custom Branding
- 📚 LMS Integration
- 📊 Usage Analytics

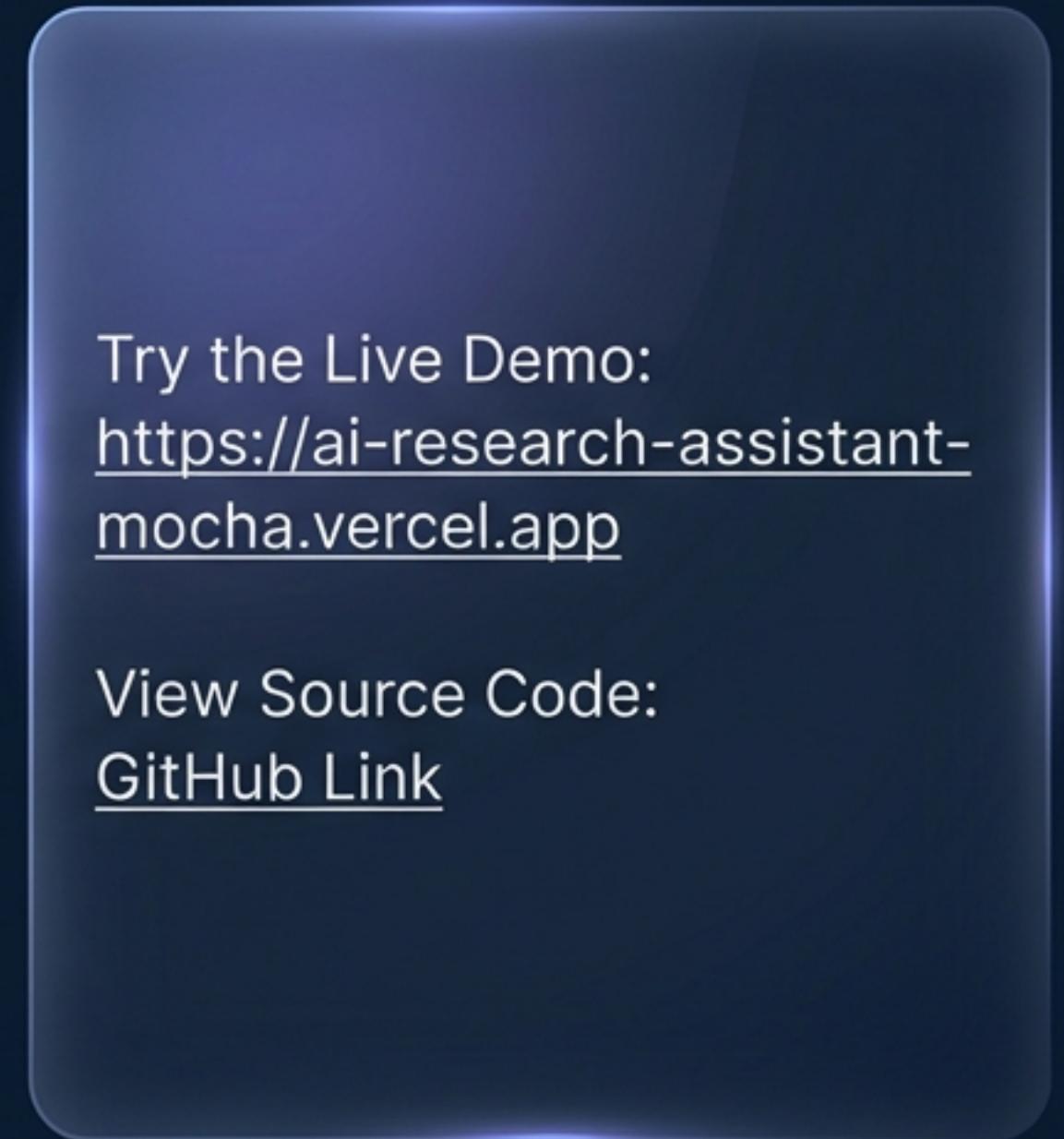
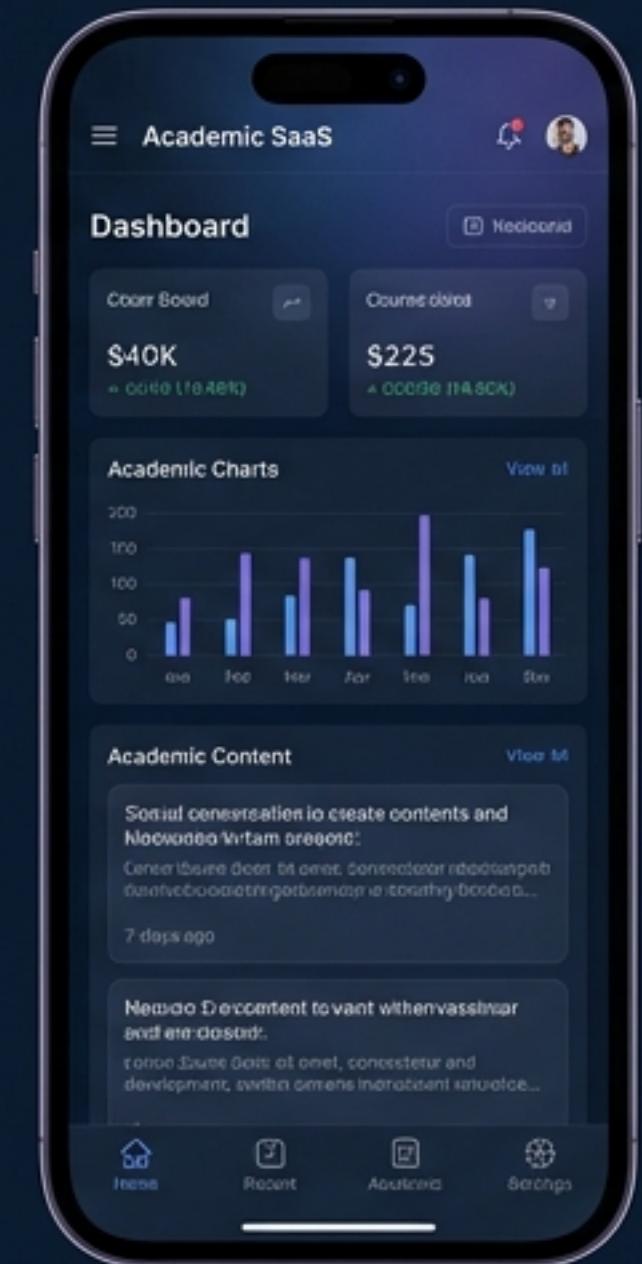
Scaling the System



“We believe the future of research is not about *more* tools, but about one smart tool that understands your work.”

Building the operating system for
the modern academic.

Experience the OS



Contact us for partnership and investment inquiries.