



TechBuddy

Restoring Independence Through AI Agency.

Claude Code, But For Your Grandmother.

For Developers



Input: Natural Language ("Build me a website")

Output: Complex Code Execution

For Margaret, 97



Input: Natural Language ("Find that photo of Tommy")

Output: Complex Navigation & Retrieval

Shifting the paradigm from **Instruction** ("Click the blue button") to **Agency** ("Help me do this").

Real Agency, Not Just Advice.

The Old Way (Chatbot)



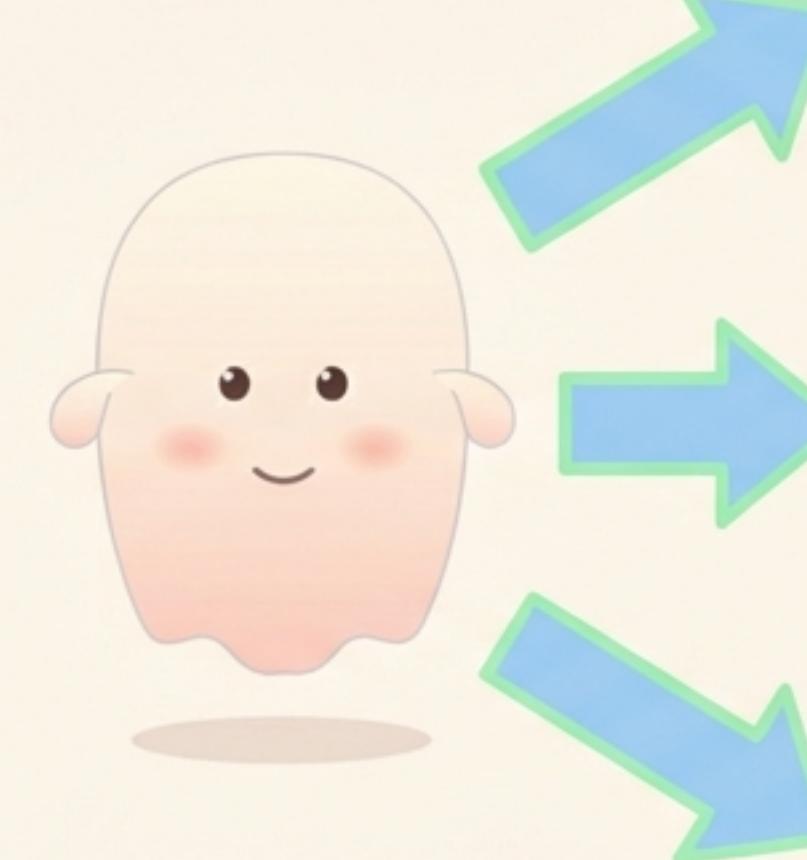
Instructions only.

“Click the File menu...”

“Select Print...”

“Check your settings...”

TechBuddy (Agent)



Open Word



(System launches app)

Check Email



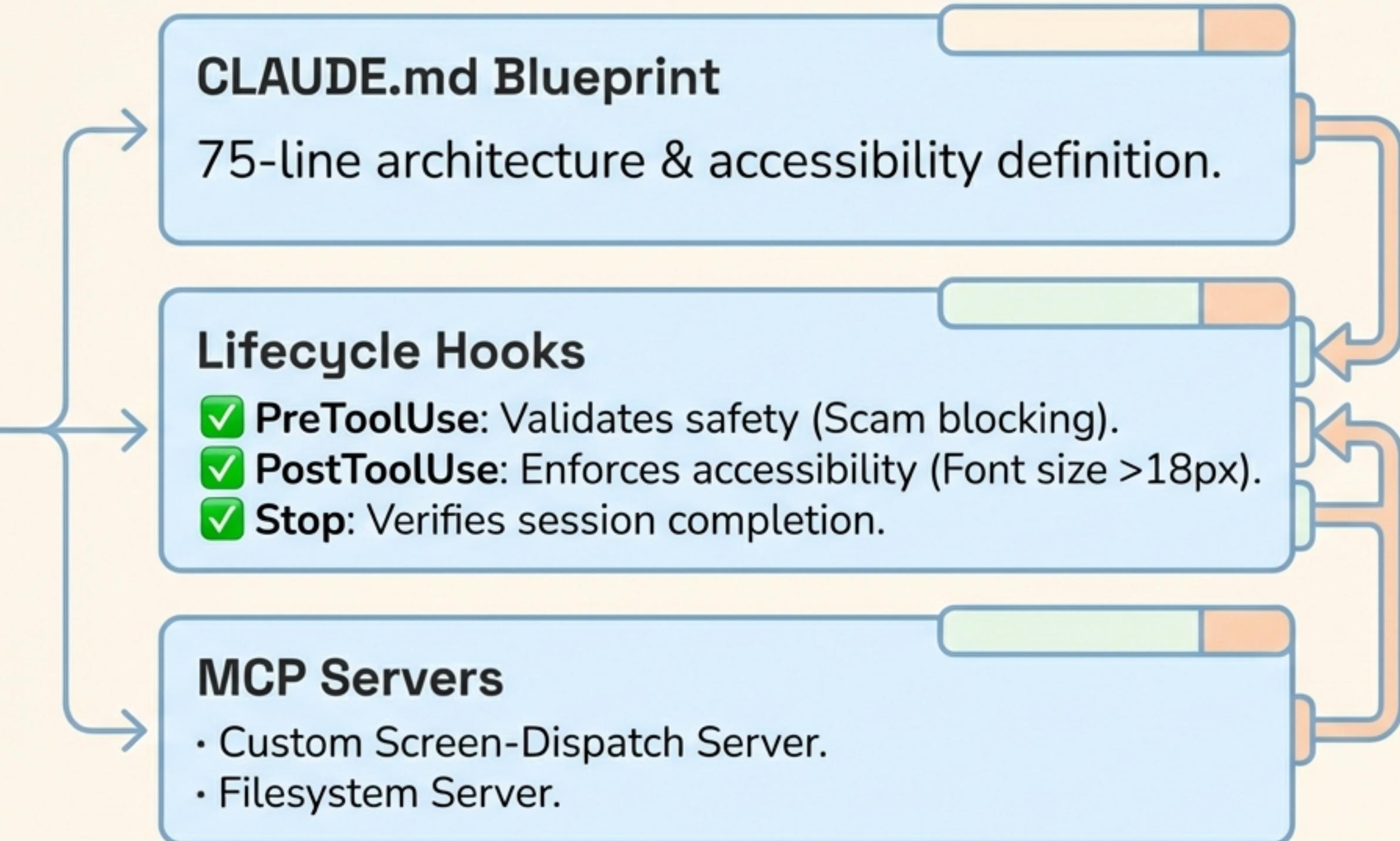
(Connects via IMAP)

Print this

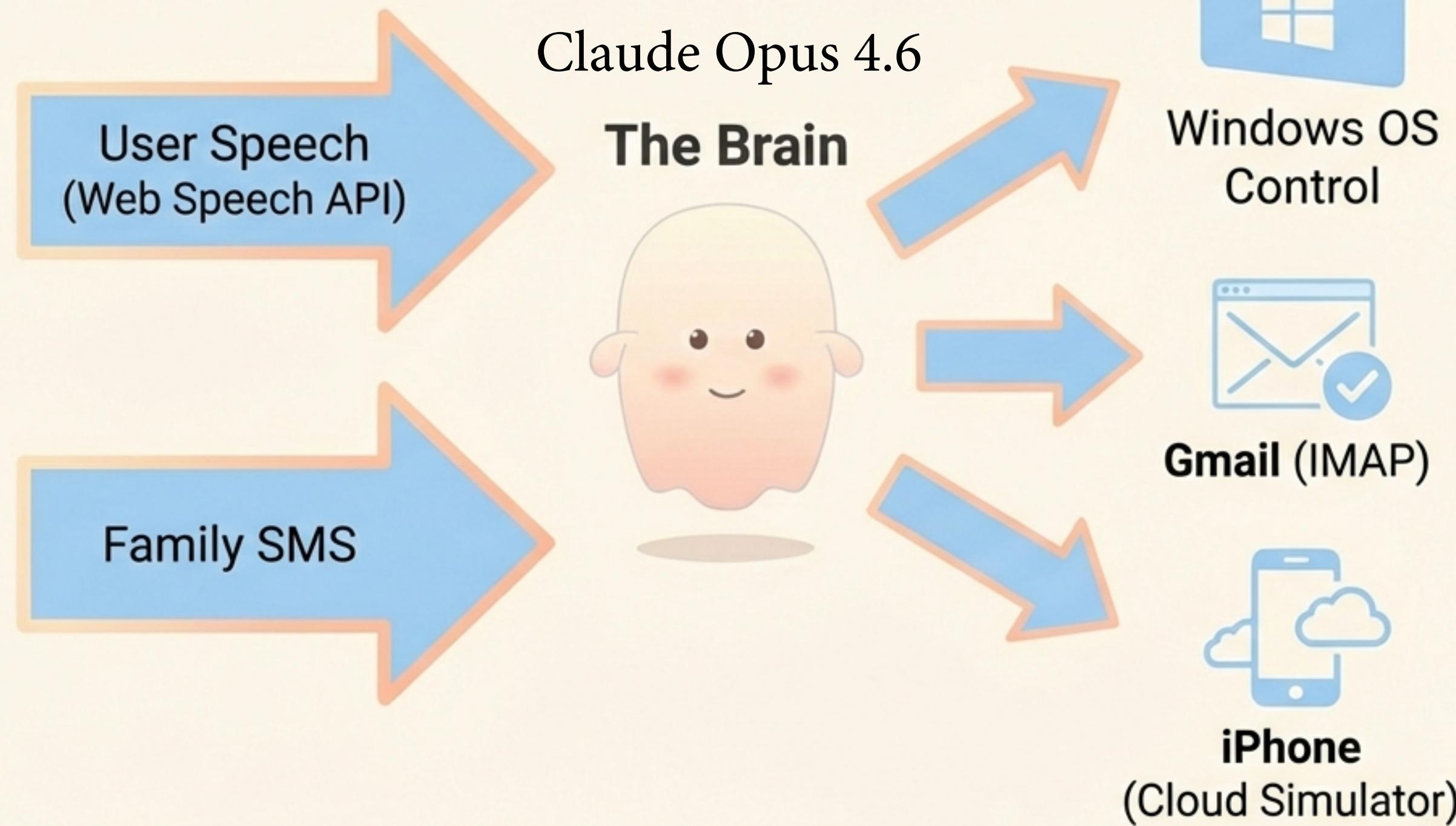


(Handles driver dialogs)

Built on Claude Code Primitives.



The Orchestration Engine



Technical Specifications

Backend: Flask /chat endpoints

Core: Claude Opus 4.6 (adaptive thinking)

Memory: Server-side UUID + Local Markdown

Loop: 10-round execution limit

35 Tools. Infinite Combinations.

File Operations (Find, Open, List)

- ✓ Find
- ✓ Open
- ✓ List



Printing (Print, Troubleshoot Jams)

- ✓ Print
- ✓ Print
- ✓ Troubleshoot



Office Automation (Word, Type, Save As)

- ✓ Word
- ✓ Type
- ✓ Save As



Safety (Scam Risk, System Health)

- ✓ Scam Risk
- ✓ Security
- ✓ System Health



Communication (Email, Video Calls)

- ✓ Email
- ✓ Communication
- ✓ Video Calls
- ✓ Typechat



Mobile Control (Open App, Tap Screen)

- ✓ Open App
- ✓ Mobile
- ✓ Tap Screen



Memory (Save Note, Context Recall)

- ✓ Save Note
- ✓ Context Recall



Natural Control & Navigation.



Robert (80): My printer isn't working.

TechBuddy: Diagnosing... I found a stuck print queue. Clearing it now.

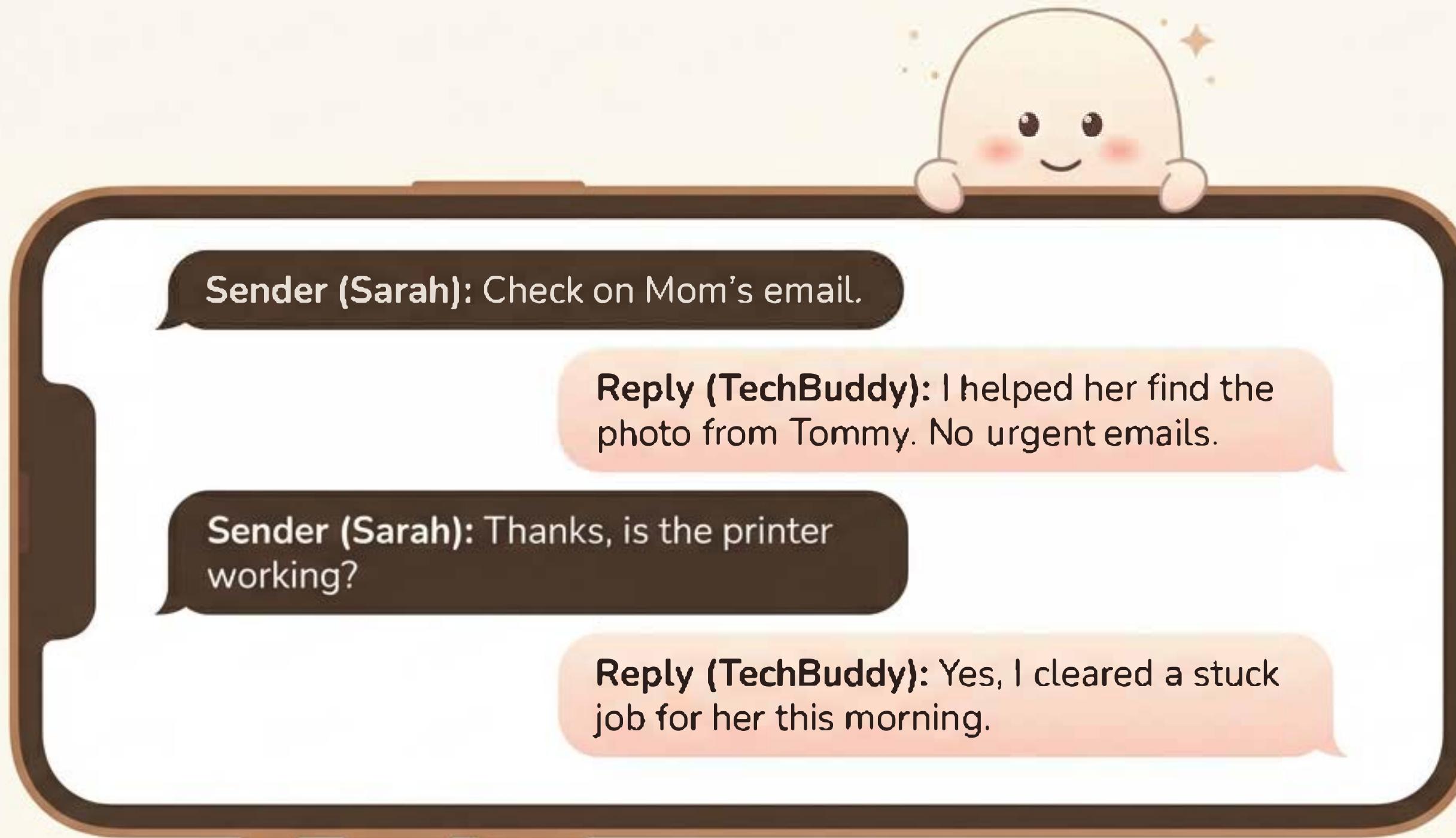
Result: Fixed in 30 seconds.

Robert (80): Help me join the Zoom call.

TechBuddy: I found the link in your email. Opening Zoom and clicking Join.

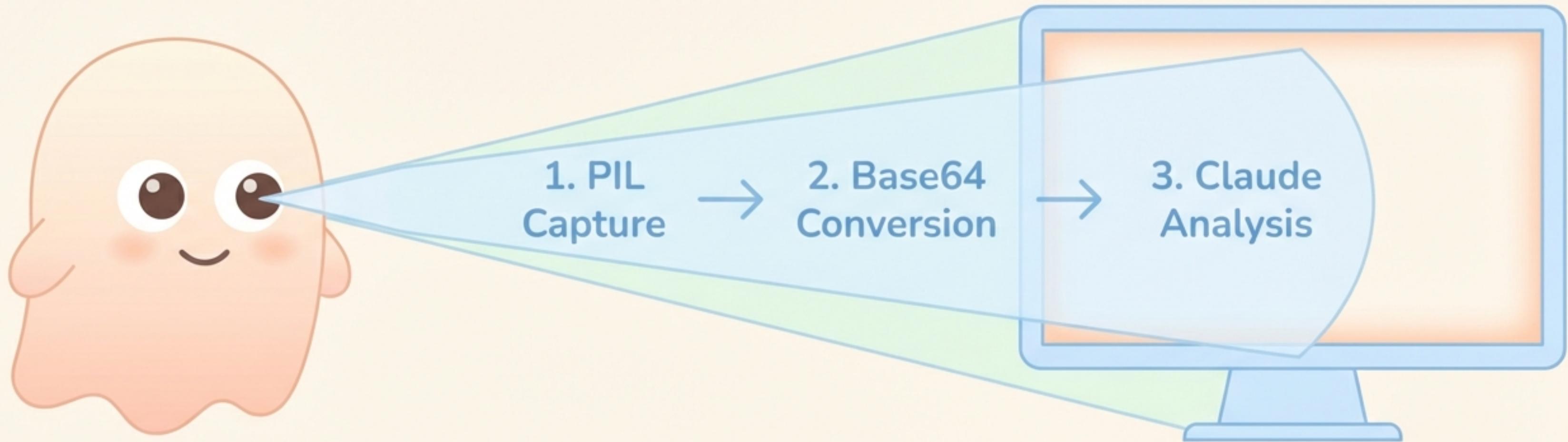
Result: Connected instantly.

Keeping Families Connected.



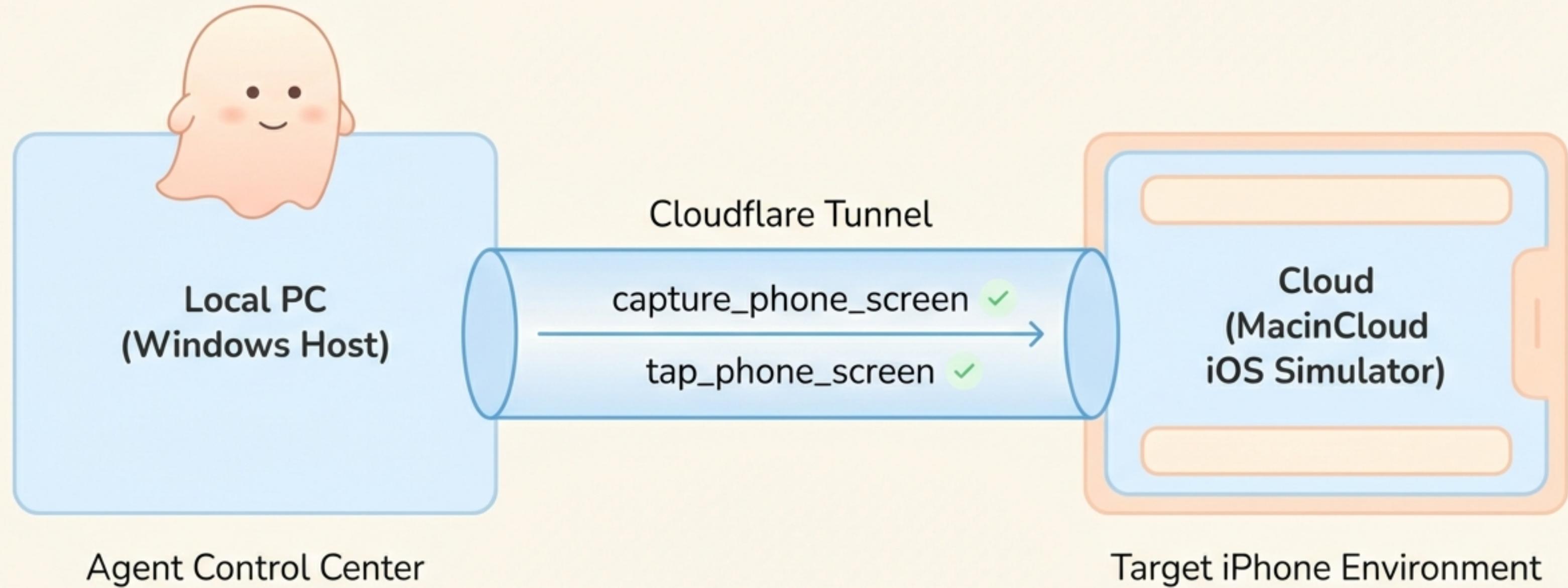
Impact: Peace of mind for the child. Independence for the parent.

Contextual Vision Pipeline.



- Tool: `read_my_screen` (Context gathering)
- Tool: `verify_screen_step` (Proactive error checking)
- Trigger: 'It looks weird' = Auto-vision activation

Cross-Device Control



The Digital Divide is a Dignity Crisis.

THE EMOTIONAL TOLL: For a generation that built businesses and raised families, the inability to navigate a digital-first world isn't just inconvenient—it is humiliating. It transforms a capable adult into a dependent, replacing confidence with the fear of 'breaking something.'

THE FAMILY DYNAMIC: The parent-child relationship devolves into a tech support transaction. Calls become troubleshooting sessions rather than connection. The adult child feels exhaustion; the parent feels like a burden.



The Goal: Shifting from “Can you do this for me?” to “I did it myself.”

By The Numbers.

19

Git
Commits



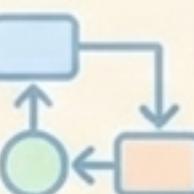
~6,440

Lines of Code



10

Max Tool Rounds
per Turn



139

Passing Tests



0

Cloud Storage /
Privacy First



TechBuddy



Technology should adapt to us,
not the other way around.

View on GitHub: github.com/ges257/techbuddy