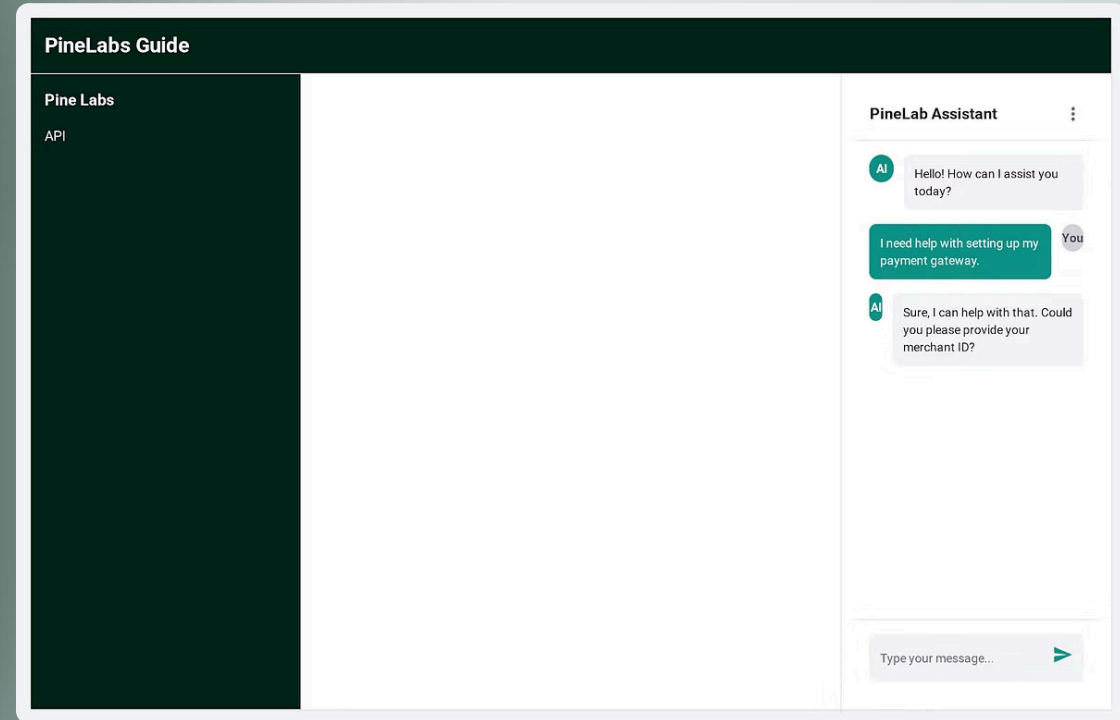# Introducing PineGuide

Problem

- Developers struggle to start, map sandbox vs live, and turn docs into working code.

- Payload errors and misconfigured headers/endpoints slow first successful transaction.

- Support teams face repeated, preventable issues.

Opportunity

Guided Integration

Provide guided, runnable code and instant fixes to make integration self-explanatory.

Reduced Support Load

Cut time-to-first-transaction and reduce support load with real-time guardrails.
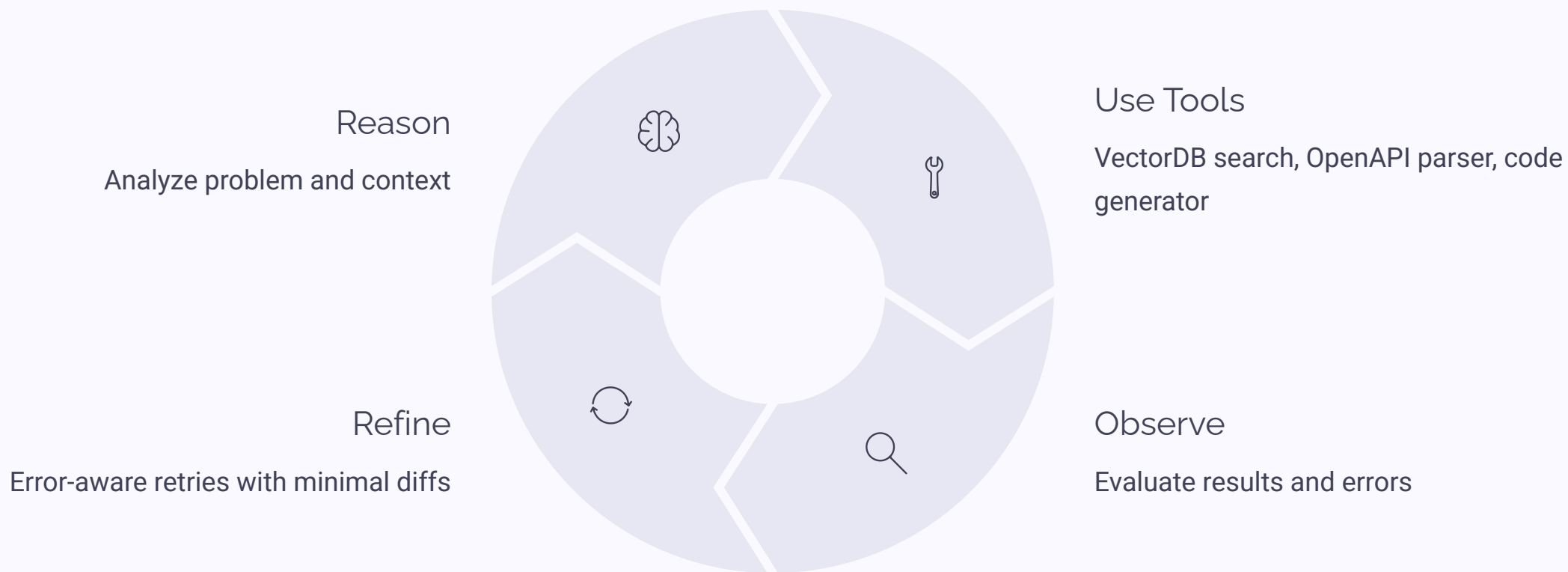
Solution Overview

Agent
Agentic AI coordinating actions

APIs
Pine Labs, Shopify, Azure, AWS

UI
Streamlit front-end + Chrome extension

Tools
VectorDB, Schema parser, Code generator

- Integration Copilot: agentic AI + Streamlit UI + Chrome extension.
- Trained on Pine Labs docs, error codes, and external platforms (Shopify, Azure, AWS).
- Works from docs alone; produces runnable snippets and patches.

Agent Pattern

Reason

Analyze problem and context

Use Tools

VectorDB search, OpenAPI parser, code generator

Refine

Error-aware retries with minimal diffs

Observe

Evaluate results and errors

Key Features

1

Guided Integration

Guided recipes per stack; auto headers/keys; sandbox-first guardrails.
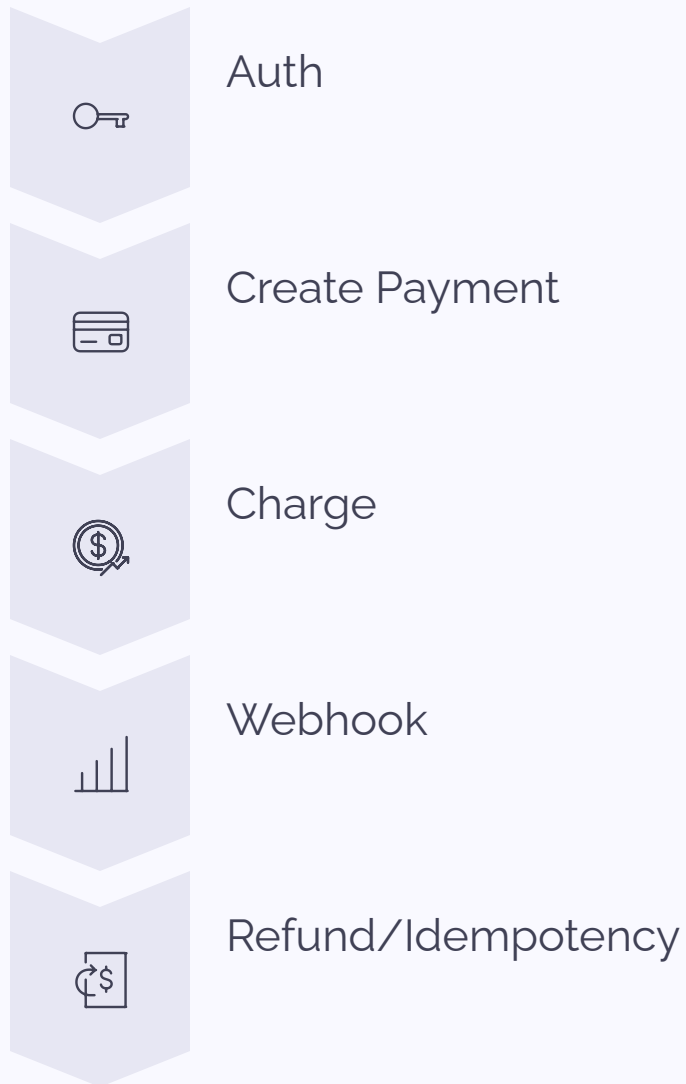
2

Error Handling

Schema-aware linting; one-click auto-fixes for common errors.

3

Export & Readiness

Export Postman/Insomnia collections; simple "ready for live" checklist.

Gamified Onboarding

Auth

Create Payment

Charge

Webhook

Refund/Idempotency

- XP, badges, and progress bar; safe failures with instant hints and auto-retry.

- First successful sandbox transaction = "boss fight" badge.

Tech Stack

AI & Backend

- OpenAI model
- Python backend with Streamlit UI
- Chroma DB for retrieval

Frontend & Tools

- Chrome extension (JavaScript)
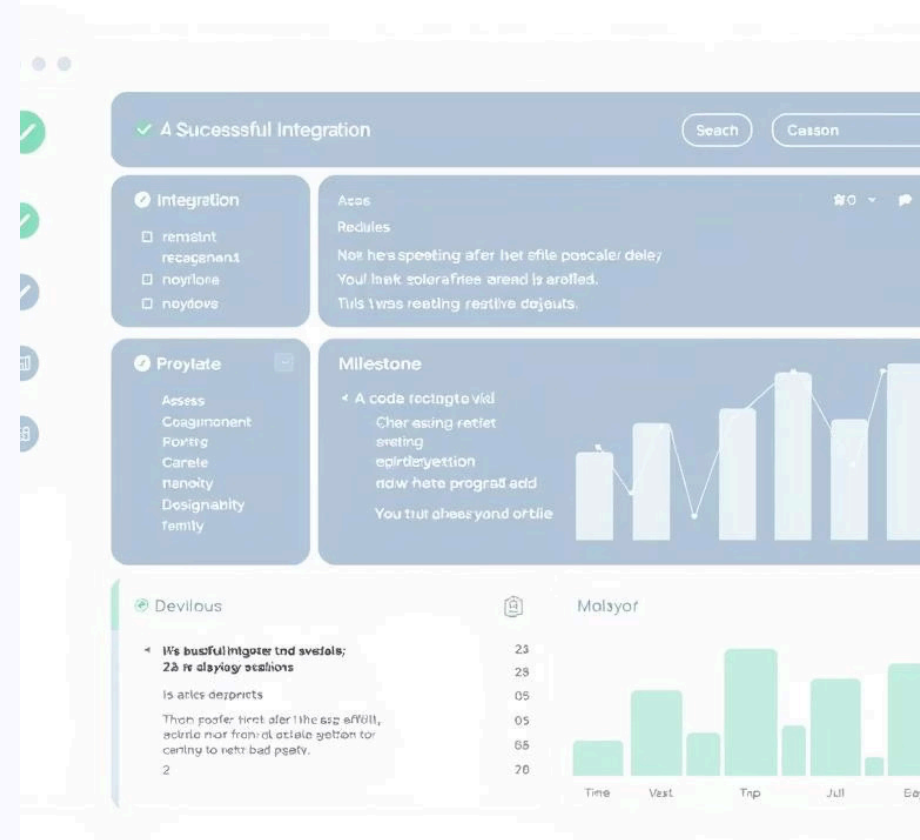- IDEs: Cursor, VS Code
- Browser: Chrome

Demo Flow

Setup

Paste keys → pick stack → Run "test charge."

Error Handling

If failure: diagnose → auto-patch → retry; show green check and code.

Progress Tracking

View dashboard: milestones, error heatmap, readiness badge.

USP and Stretch Goals

Unique Selling Point

One-stop guidance to integrate Pine Labs from any platform (Shopify, cloud SaaS) into developer systems.

Security by Design

Keys server-side; sandbox default; guarded live switch.

> ⓘ **Stretch Goal: Handholding Mode**
>
> Planner–Executor "handholding" mode that keeps live session context to plan steps and execute them with continuous guidance.