AI for Bharat Hackathon

Powered by **aws**

Team Name :

Team Leader Name : Aryan Patel

Problem Statement : AI for learning & Developer Productivity

The Project : HIRO - "AI that helps developers understand architecture instantly"

Brief about the Idea:

HIRO is an AI-powered developer platform that automatically scans any codebase and generates a complete, live architectural overview — with zero manual effort.

Most development teams today have no reliable map of their own system. Code grows, teams change, and nobody has time to maintain documentation. HIRO solves this by doing what no human wants to do — reading every file, understanding every connection, and turning that knowledge into a clear visual diagram that updates as the code changes.

The idea is simple: point HIRO at any repository and within seconds your entire system architecture is visible, navigable, and shareable.

Why it is helpful:

Problem 1 — Developers spend days understanding existing systems
When a new developer joins a team, they don't write code for days. They read — old files, old commits, old Slack messages, hoping someone documented something somewhere. This is pure time waste. HIRO eliminates this entirely. The architectural diagram gives any developer — new or experienced — a complete picture of the system in seconds, not days.

Problem 2 — Architectural documentation becomes outdated and tedious
Documentation is written once and abandoned. The moment a new service gets added or a dependency changes, the docs lie. Nobody has time to update them, and nobody trusts them anyway. HIRO generates documentation automatically from the actual live code — so it is never outdated, never wrong, and requires zero human effort to maintain.

What HIRO does:

Analyze the repositories automatically -> Extracts the system relations -> Generates the live architectural diagram

What Makes HIRO Different:

HIRO is not a drawing tool. You don't input anything manually, write any code, or describe your system. You simply point HIRO at a repository and it does the rest — automatically, accurately, and instantly.

Unlike static diagram tools that require manual effort, or generic AI assistants that generate guesses, HIRO reads your actual live code and produces a real architectural map of what your system truly looks like right now.

HIRO Provides:

Automatic Architecture Extraction HIRO scans your entire codebase without any human input. No forms, no descriptions, no drag and drop. Just a repository URL and a complete architectural diagram comes out the other side.

Live Synchronization The diagram is never outdated. Every time your code changes, HIRO updates the diagram to reflect it. Your architecture documentation stays accurate without anyone maintaining it.

Feedback-Driven Accuracy Developers can flag errors, suggest corrections, and improve the diagram directly. HIRO learns from that input and gets more accurate over time — making it smarter the more your team uses it.

How It Solves the Problem:
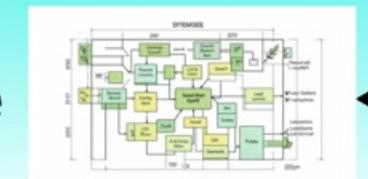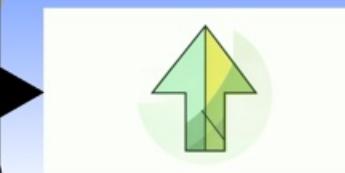
HIRO converts any codebase into a clean, color-coded visual diagram enriched with meaningful labels and summaries — so anyone on the team understands the system at a glance.
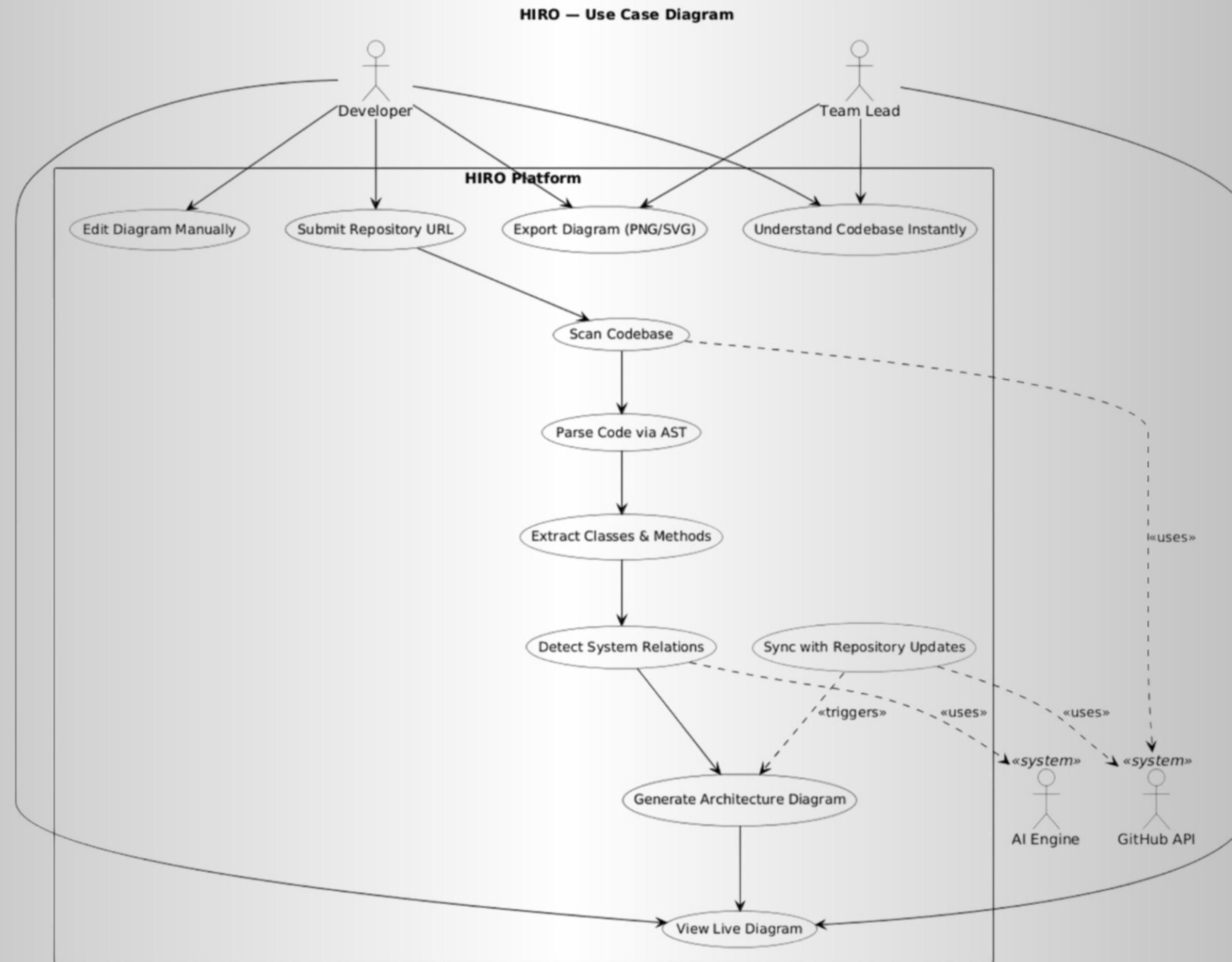
It eliminates manual documentation completely. Instead of a developer spending hours writing and maintaining architecture docs, HIRO generates them automatically from the source code itself.

What previously took hours now takes minute
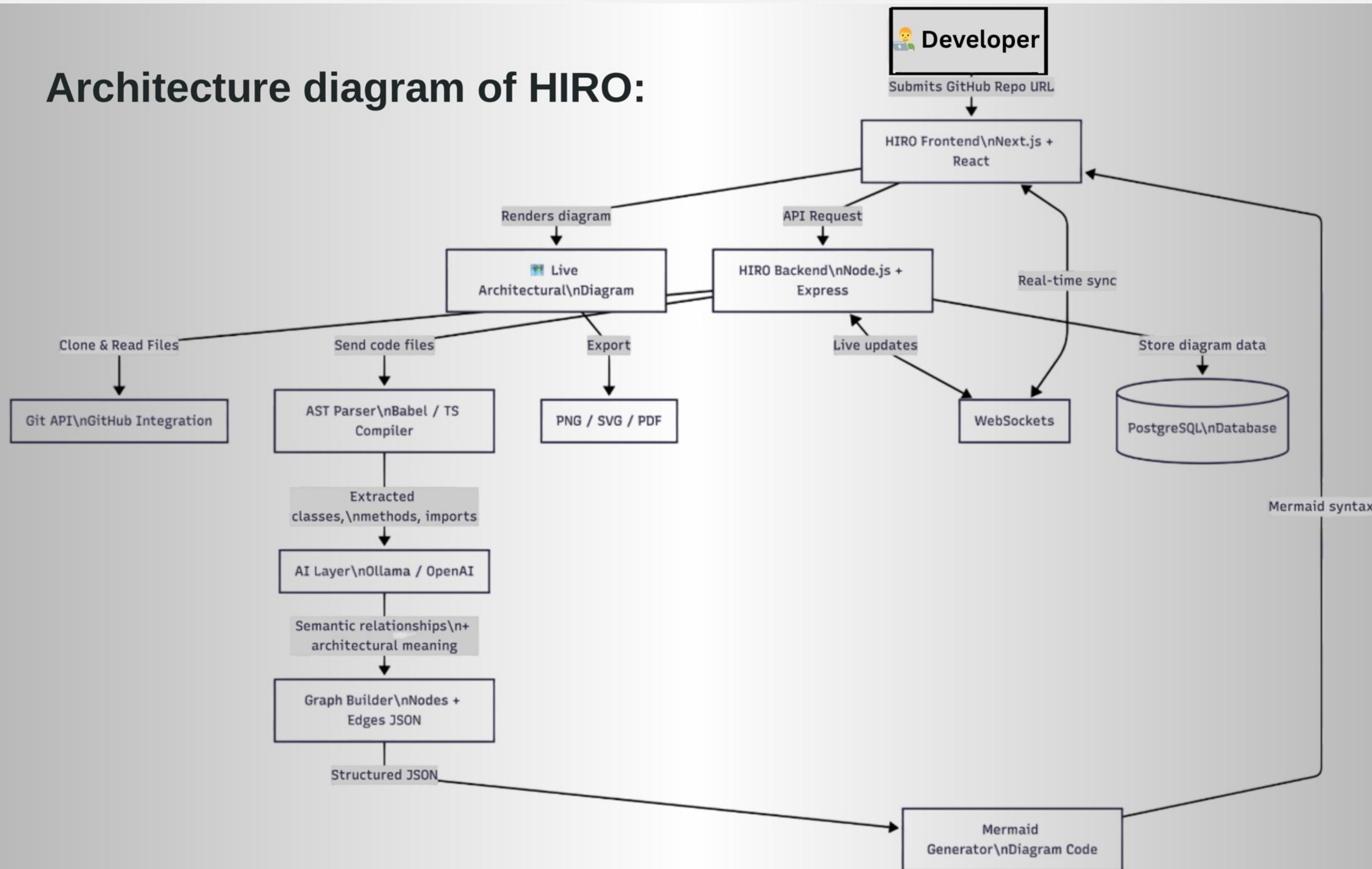
USP:

HIRO is the only tool that turns a live codebase into a live architectural diagram — automatically, with zero manual effort, and zero risk of outdated documentation.

Features

Code dependencies and structure maps

Architectural diagram generated from codebase

Automatically updates with the git changes

Detection of performance issues and risks

Exports diagrams to PNG, SVG and PDF formats

Search and navigate diagrams using plain text

Visualize security paths and movements

HIRO — Use Case Diagram
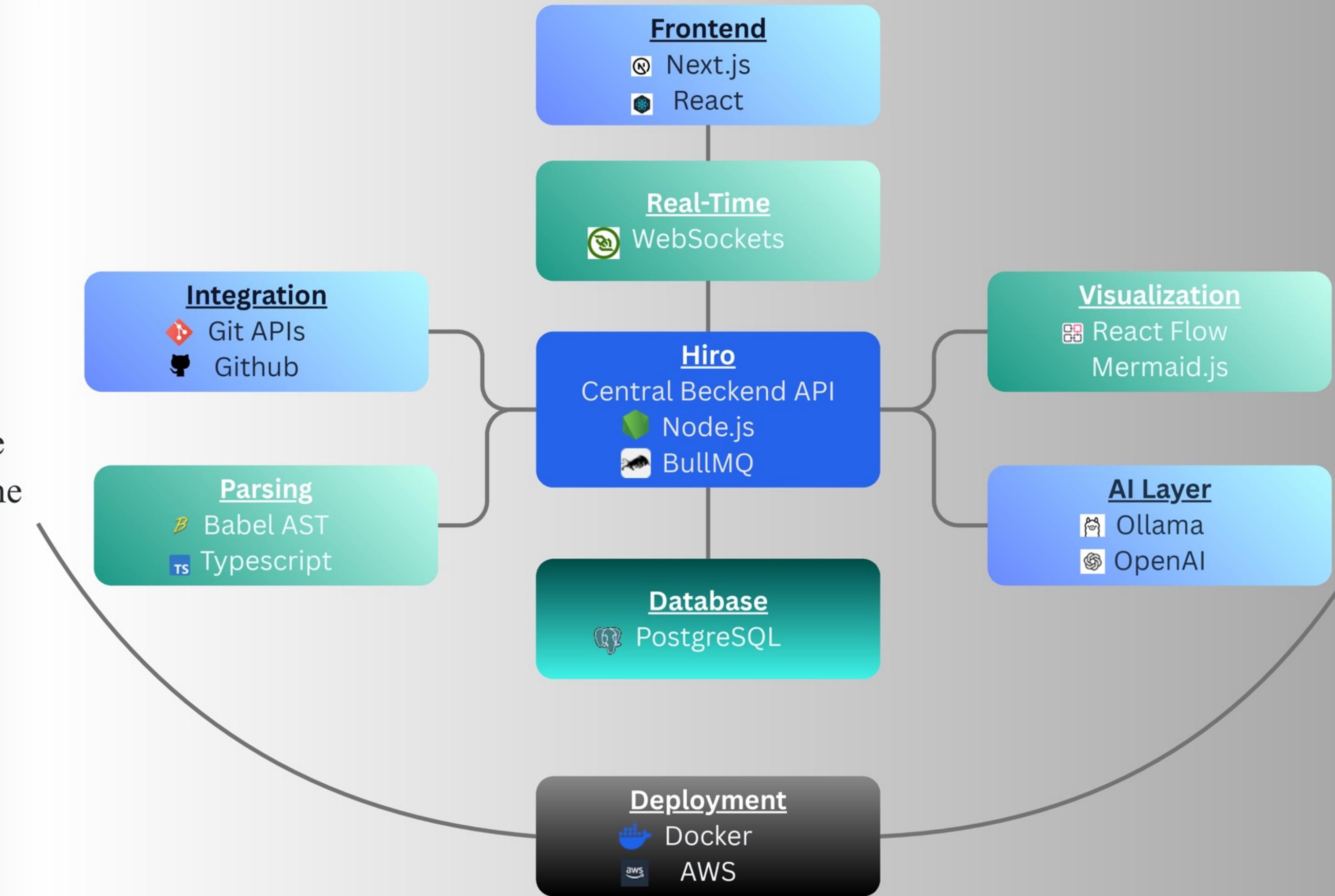
Architecture diagram of HIRO:
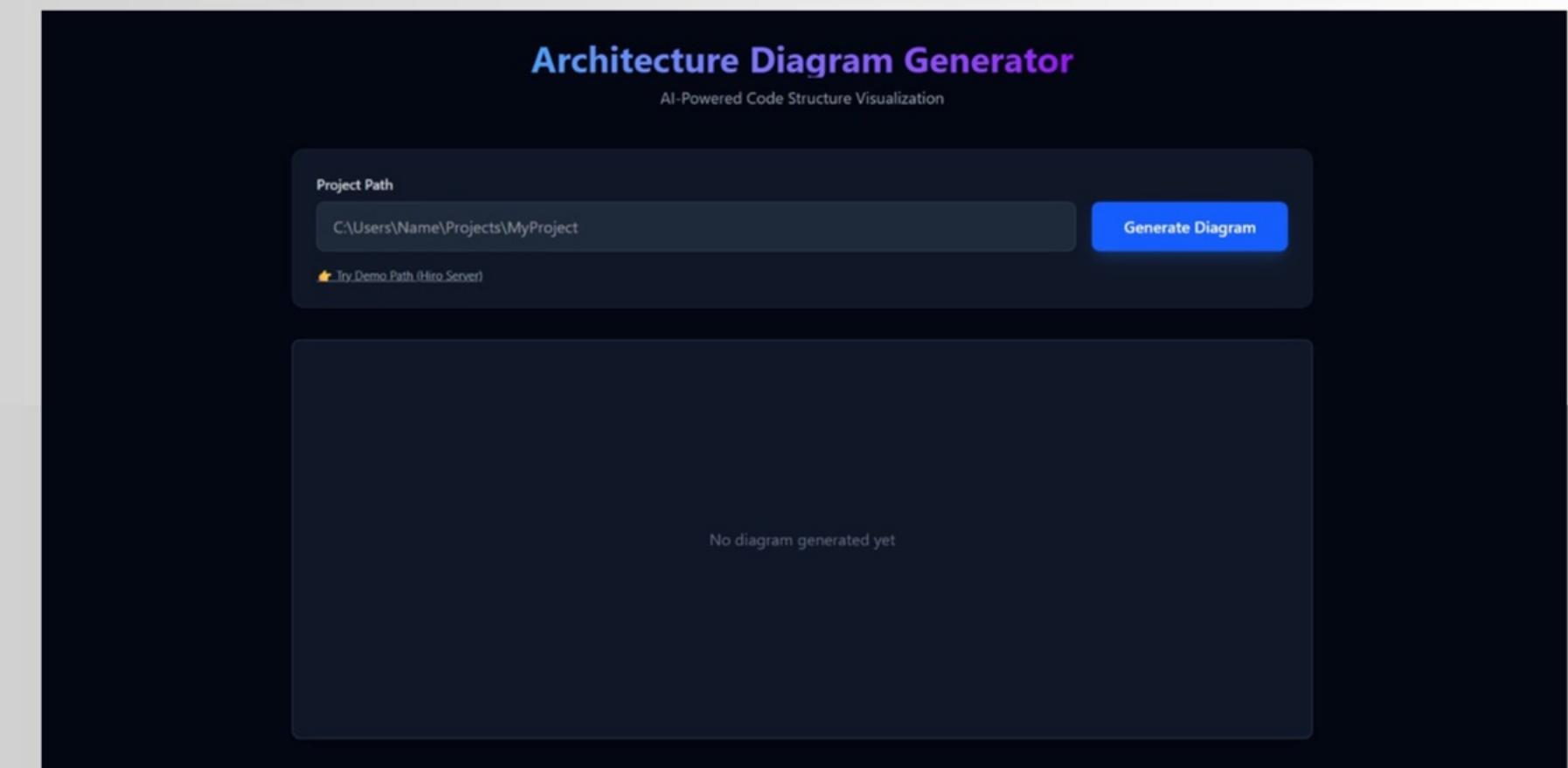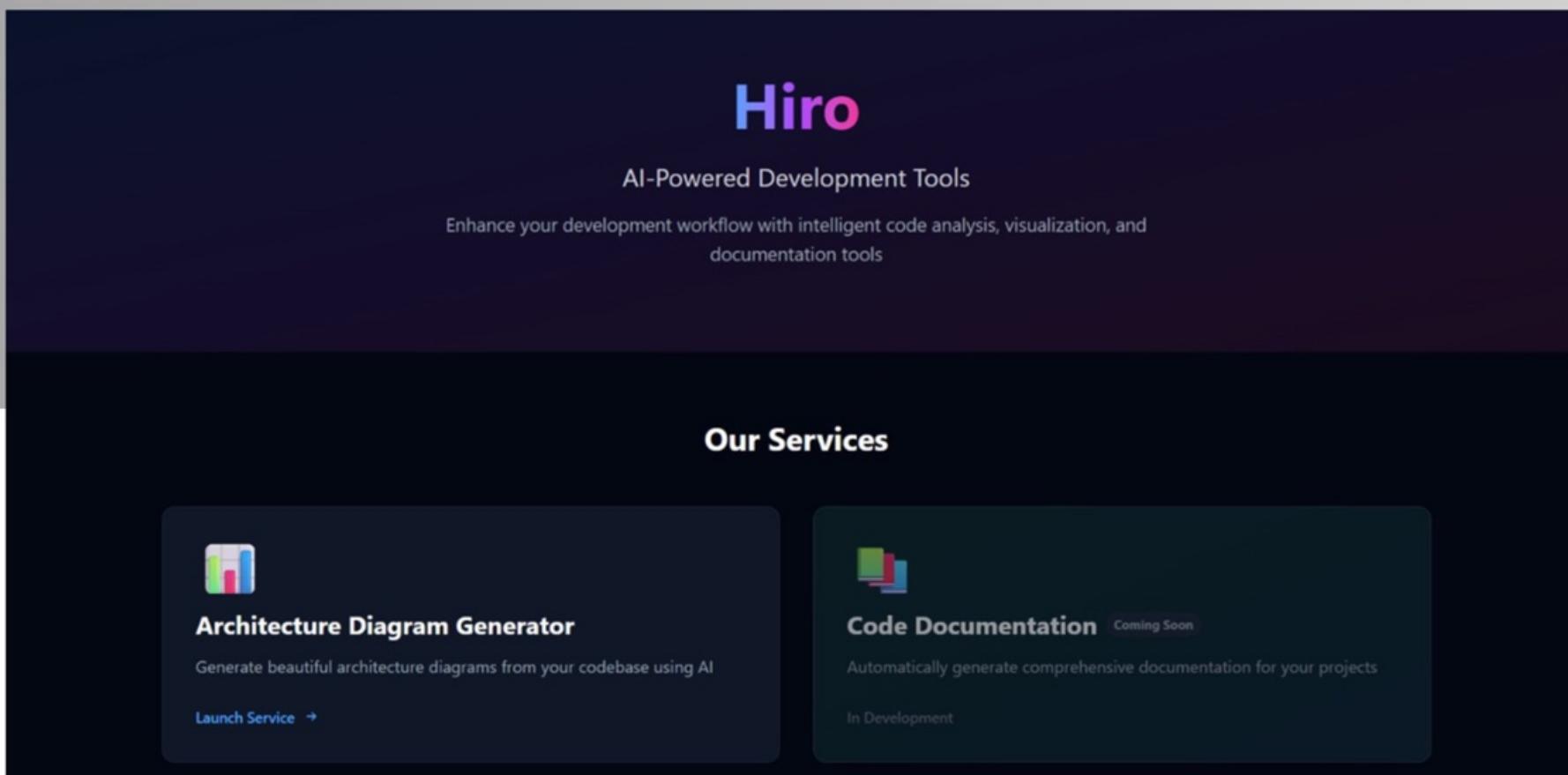
Technologies to be used in HIRO

A comprehensive overview of the nine critical architecture nodes powering the HIRO ecosystem, from frontend to deployment.

Frontend
- Next.js
- React

Real-Time
- WebSockets

Integration
- Git APIs
- Github

Parsing
- Babel AST
- Typescript

Hiro
Central Beckend API
- Node.js
- BullMQ

Visualization
- React Flow
- Mermaid.js

AI Layer
- Ollama
- OpenAI

Database
- PostgreSQL

Deployment
- Docker
- AWS

UI of HIRO:

Hiro

AI-Powered Development Tools

Enhance your development workflow with intelligent code analysis, visualization, and documentation tools

Our Services

Architecture Diagram Generator

Generate beautiful architecture diagrams from your codebase using AI

Launch Service →

Code Documentation Coming Soon

Automatically generate comprehensive documentation for your projects

In Development

Architecture Diagram Generator

AI-Powered Code Structure Visualization

Project Path

C:\Users\Name\Projects\MyProject   Generate Diagram

👉 Try Demo Path (Hiro Server)

No diagram generated yet