

Core Problem Statement:

Native GitHub lacks AI-driven tools to streamline collaboration, code understanding, and project continuity, leading to wasted time, miscommunication, and inefficiency.

Knowledge Fragmentation:

Fragmented documentation & tribal knowledge. Inefficient onboarding for new team members. Overwhelming data leads to Hours wasted searching for context.

Code Comprehension Challenges:

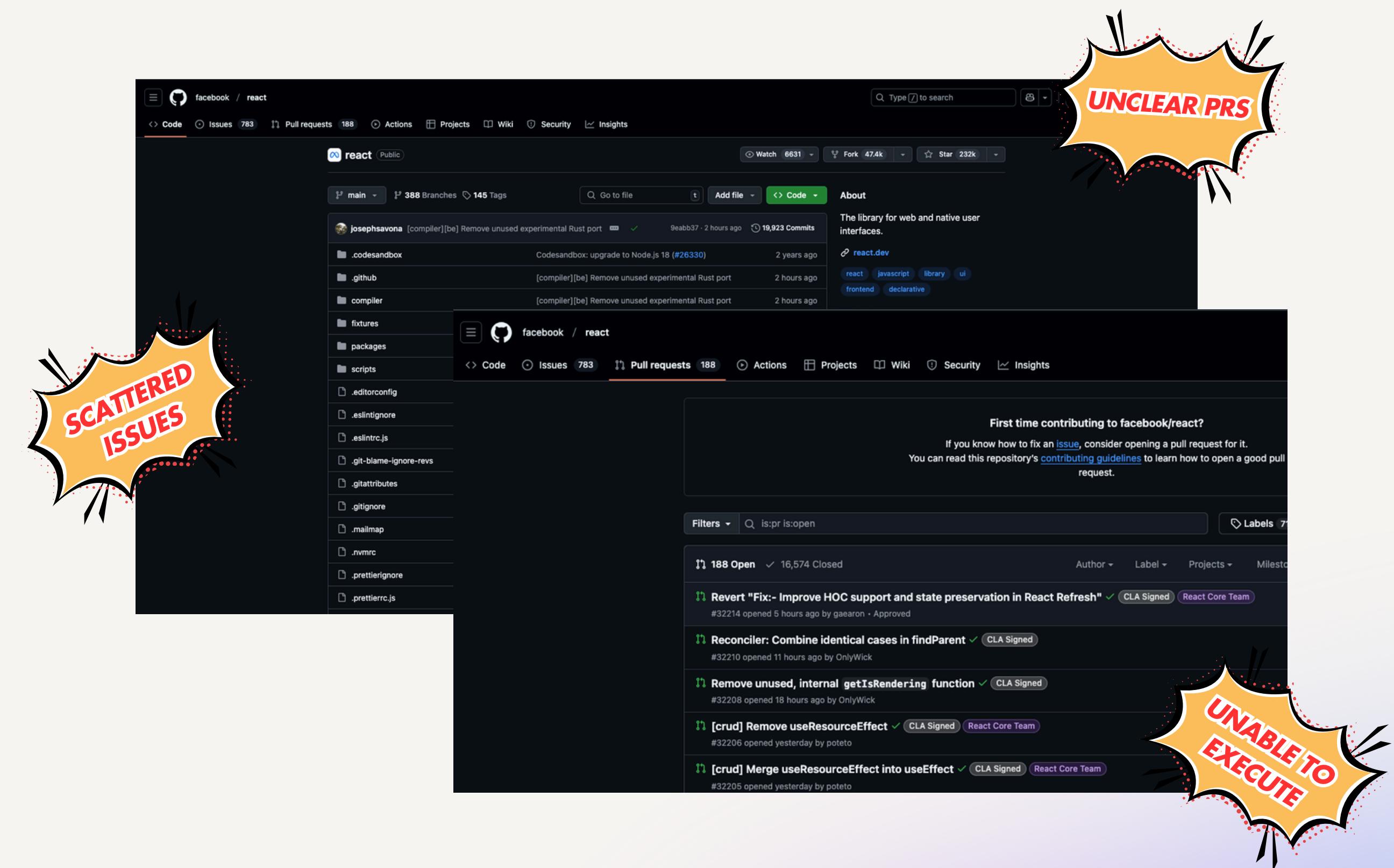
Lack of contextual understanding of codebases. Time-consuming manual code analysis. Rapidly changing codebases with no AI-assisted tracking.

Collaboration Bottlenecks:

Teams struggle to align on complex repositories. Unstructured meeting notes hinder decision-making. 40% of project time lost to miscommunication.

THE PROBLEM

Developers Struggle with Collaboration, Context, and Code Comprehension on GitHub



***What if AI could turn fragmented workflows
into seamless collaboration?***

CoCraft

“CRAFT CODE, TOGETHER”

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An AI-Powered Project Collaboration Software for Organisations: Context-Aware Collaboration & Code Intelligence

AI-Powered Knowledge Hub

- Automated Repository Crawling: Langchain + GitHub API to index entire codebases.
- AI-Generated Project Summaries: Gemini creates instant overviews for new developers.
- Q&A with Code Context: Ask questions like, “Where is the PDF loader?” and get answers with code snippets.

Real-Time Code Intelligence

- Retrieval Augmented Generation (RAG): Gemini analyzes codebase context to explain logic, dependencies, and changes.
- Commit Summaries: AI-generated summaries of every commit (e.g., “Fixed auth bug in login.js”).
- Codebase Pulse Dashboard: Visualize code changes and team activity.

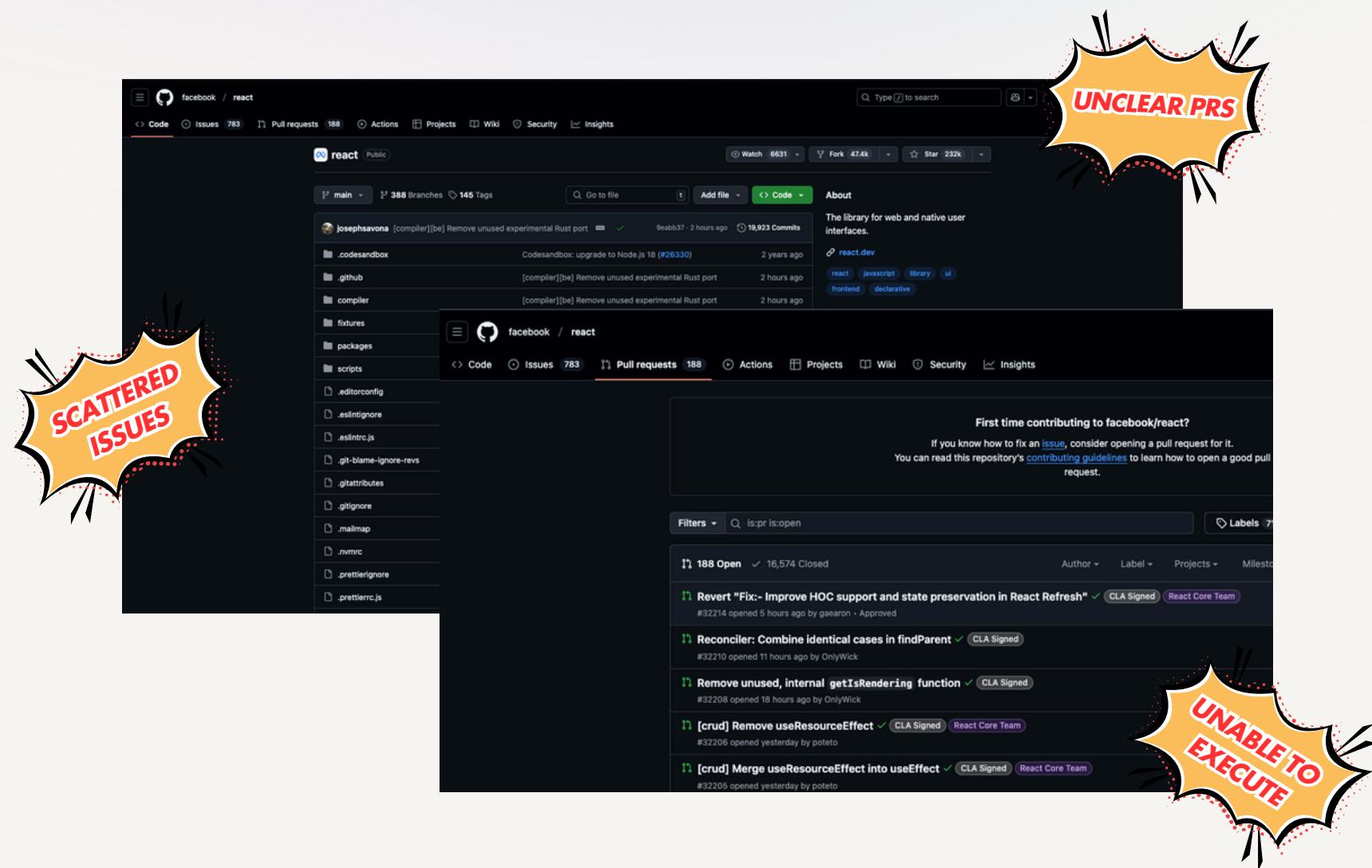
Seamless Collaboration

- Team Notes with AI Insights: Shared workspace with AI-highlighted key decisions.
- Meeting Analysis: Upload recordings → AI generates summaries + Q&A (e.g., “What was decided about the API redesign?”).
- Saved Answers: Preserve FAQs for future onboarding (e.g., “How do we handle OAuth?”).

Scalable Access

- Credit System: Pay-as-you-go via Stripe to process repositories or meetings.
- Cost Optimization: Gemini API usage capped per credit to avoid overspending.
- Credit-based SaaS model for scalability

NATIVE GITHUB (CHAOTIC, WITH SCATTERED ISSUES/DOCS)



COCRAFT (ORGANIZED, WITH AI SUMMARIES, Q&A, DASHBOARDS)

The image shows the COCRAFT platform interface. It features a sidebar with options like Dashboard, Q&A, Meetings, and Billing. The main area has a search bar at the top. A central panel shows a question about changing the home page, with a button to "Ask Dionysus!". Below it, there are sections for recent commits and a "Link your GitHub Repository" form. A large green checkmark icon is positioned at the bottom right. The interface is clean and modern, emphasizing organization and AI integration.



HOW IT WORKS

Step 1: Repository Crawling

GitHub API: Fetches code, issues, commits.

Langchain Document Loaders: Processes files into structured data.

Step 2: Embedding & Vector Storage

Gemini Embeddings: Converts code/docs into vectors.

Vector Database (Pinecone/Chroma): Stores embeddings for fast retrieval.

Step 3: AI-Powered Query Engine

Retrieval Augmented Generation (RAG): Combines vector search + Gemini for context-aware answers.

Meeting Analysis Pipeline: Assembly AI transcribes recordings → Gemini summarizes.

Step 4: User Interaction

Next.js Frontend: Clean UI for Q&A, dashboards, and team collaboration.

Stripe Integration: Credit-based access to AI processing.

Backend:

Next.js API routes + Langchain for RAG pipeline.

NeonDB (PostgreSQL) for user data, projects, and credits.

AI Layer:

Google Gemini: Code analysis, summaries, and Q&A.

Langchain: Chunking, retrieval, and prompt engineering.

Technical Foundation

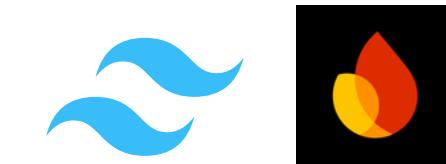
AI



Backend

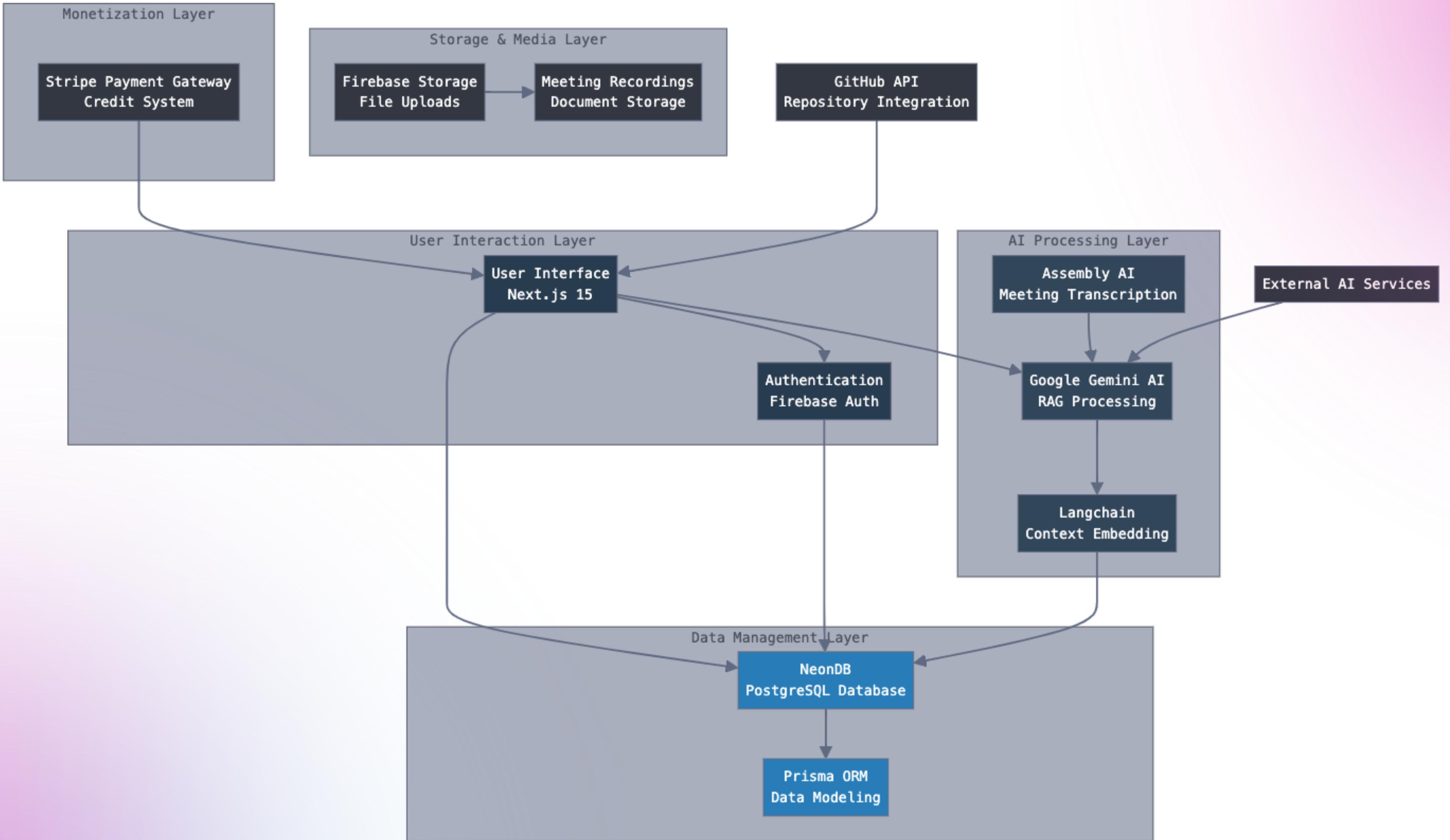


Frontend



Payments





ABSTRACT

CoCraft is an end-to-end AI SaaS platform that transforms GitHub workflows by automating code comprehension, contextualizing collaboration, and analyzing meetings – all powered by Retrieval Augmented Generation (RAG) and Google Gemini.

By crawling repositories, generating intelligent insights, and unifying team knowledge, we turn chaotic codebases into structured, AI-auditable projects – saving hours of wasted time and bridging communication gaps.

We're not just building a tool – we're redefining how developers collaborate with AI.

Thank You