Google Cloud

PRESENTS

Agentic AI Day

Build the next generation of intelligent agents

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Team Details

a. **Team name: rassed.ai**
b. **Team leader name: Leela Sai Siva Subrahmanyam**
c. **Problem statement: Receipt Management for Google Wallet**

Brief about the idea

Raseed.ai is an AI-powered receipt manager & financial assistant that helps users digitize & organize purchase receipts directly with google wallet.
Using Gemini & Google Capabilities, it enables expense tracking & personalized financial suggestions delivered as Google Wallet passes.

How it is different from other Ideas?

Unlike traditional finance trackers or OCR Apps, Raseed uses multimodal LLM based vision, reasoning & wallet integration to digitize receipts and push into user’s Google Wallet in real time.

How will it be able to solve the problem?

Using Gemini’s multimodal capabilities & other Google Services, it converts receipts into a searchable digital records, answers, natural language queries & advices user through wallet notifications.

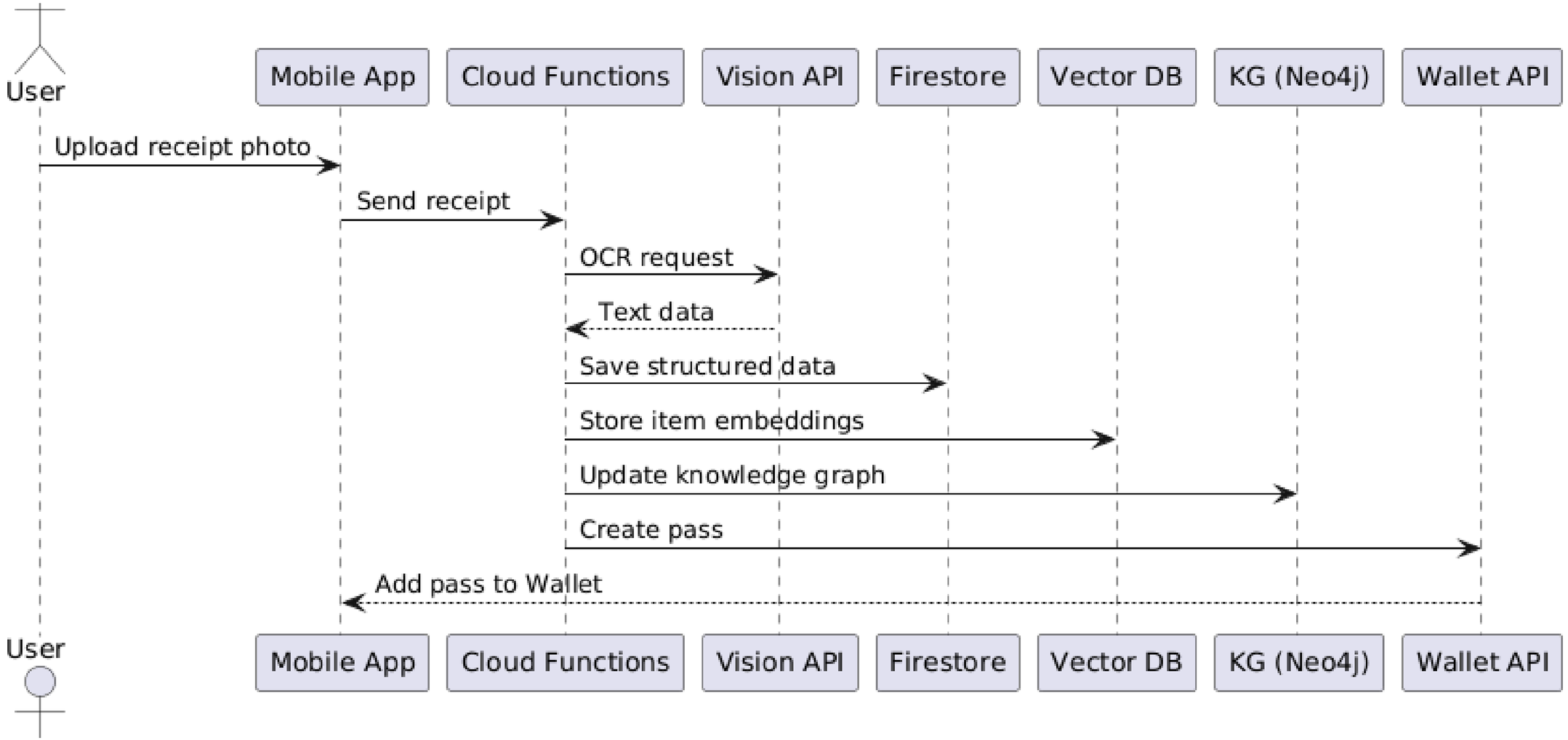
USP of the proposed solution

- Uses Gemini’s multimodal & reasoning capabilities
- Gives personalised insights
- Supports RAG with vector DB & Knowledge Graph for advanced reasoning

List of features offered by the solution

- Multimodal receipt ingestion
- Multilingual OCR and item extraction
- Storage & indexing of receipts
- Spending categorization & trend analysis
- Local language queries for contextual insights
- Dynamic pass creation for Google Wallet
- Push notification for financial updates
- Shopping list and inventory tracking

Process flow diagram or use-case diagram



Technologies to be used in the solution

Frontend & Hosting

- **Flutter** – Cross-platform mobile UI
- **Firebase Hosting** – Serves the app

Authentication

- **Firebase Authentication** – Google Sign-In

AI & OCR

- **Cloud Vision API** – OCR for receipts
- **Vertex AI Gemini API** – Multimodal LLM for insights

Data Storage & Graphs

- **Firestore, Cloud Storage** – Document Storage
- **Vertex AI Vector Search** – Vector Database
- **Neo4j AuraDB** – Knowledge Graph (optional)

Wallet Integration

- **Google Wallet API** – Pass creation and updates

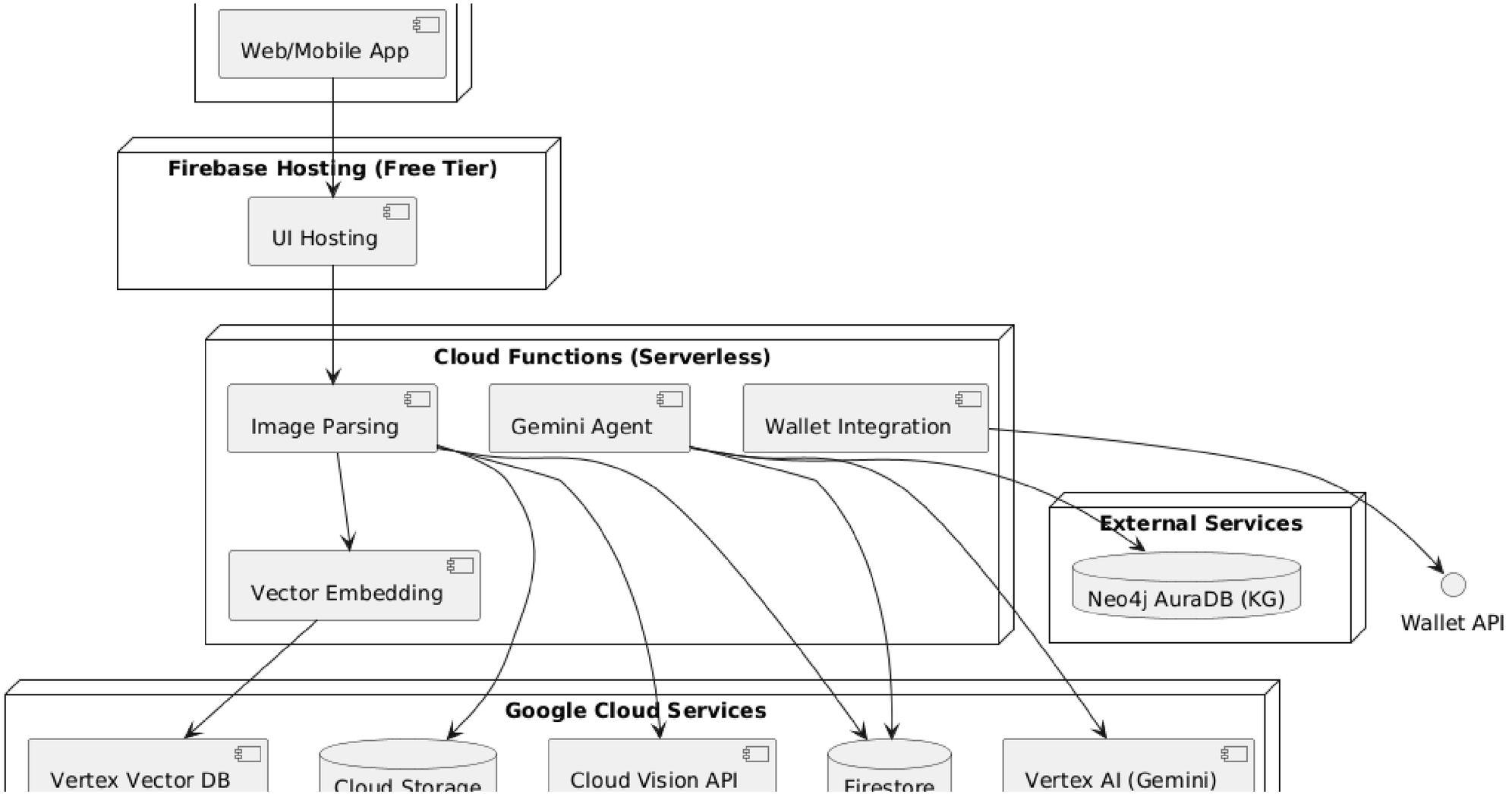
Notifications & Backend

- **Firebase Cloud Messaging (FCM)** – Push Notifications

Security (Optional)

- **IAM** - Access Control and Permissions

Architecture diagram of the proposed solution



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Thank you!