

Google Cloud

PRESENTS

Agentic AI Day

Build the next generation of intelligent agents

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Team Details

- a. **Team name:** 'Nudglet' [A Wallet that talks]
- b. **Team leader name:** Navya Manaswi
- c. **Problem statement:** Receipt management for Google Wallet

Brief about the idea

In 'Project Raseed' we transform Google Wallet from a passive pass-holder into an AI-powered financial ally. Our solution lets users upload offline receipts right from Wallet's home screen, intelligently reads & categorizes their spending with Gemini in different languages, and generates dynamic passes that say things like 'Save ₹3000 on shopping this month!' Inside the Wallet insights dashboard, we show beautiful graphs and an AI chatbot that answers questions like 'Why did I overspend on dining?', also allow users to set a budget limit which also helps them by suggesting ways to stay on track.

With intelligent power notifications and even location-aware reminders (like nudging users at their favorite store if they're close to busting their budget), our app rewards smart saving and makes every spending decision clearer all built on Google's stack: Gemini, Vertex AI Agent Builder, Firestore, Firebase, and the Google Wallet API.

Opportunities

- How different is it from any of the other existing ideas?
- How will it be able to solve the problem?
- USP of the proposed solution

Different from existing ideas	<ul style="list-style-type: none">• Goes beyond passive spend tracking, integrates directly inside Google Wallet.• Handles offline receipts (photos, videos) + multilingual queries.• Dynamic generic passes + local, real-time nudges unlike static expense apps.
Solving Problem	<ul style="list-style-type: none">• Effortlessly upload any receipt in Wallet, no extra app.• Gemini AI categorizes spend & builds live insights.• Chatbot + passes + notifications guide smarter spending instantly.
USP (Unique Selling Point)	<ul style="list-style-type: none">• Embedded inside Google Wallet, your wallet becomes a smart money advisor.• Multimodal, local-language, context-aware suggestions.• Proactive rewards & location-based nudges, not just passive reports.

List of features offered by the solution

Effortless receipt management: Scan offline receipts directly from Google Wallet's home screen and have Gemini automatically read and sort each item, tax, and spend.

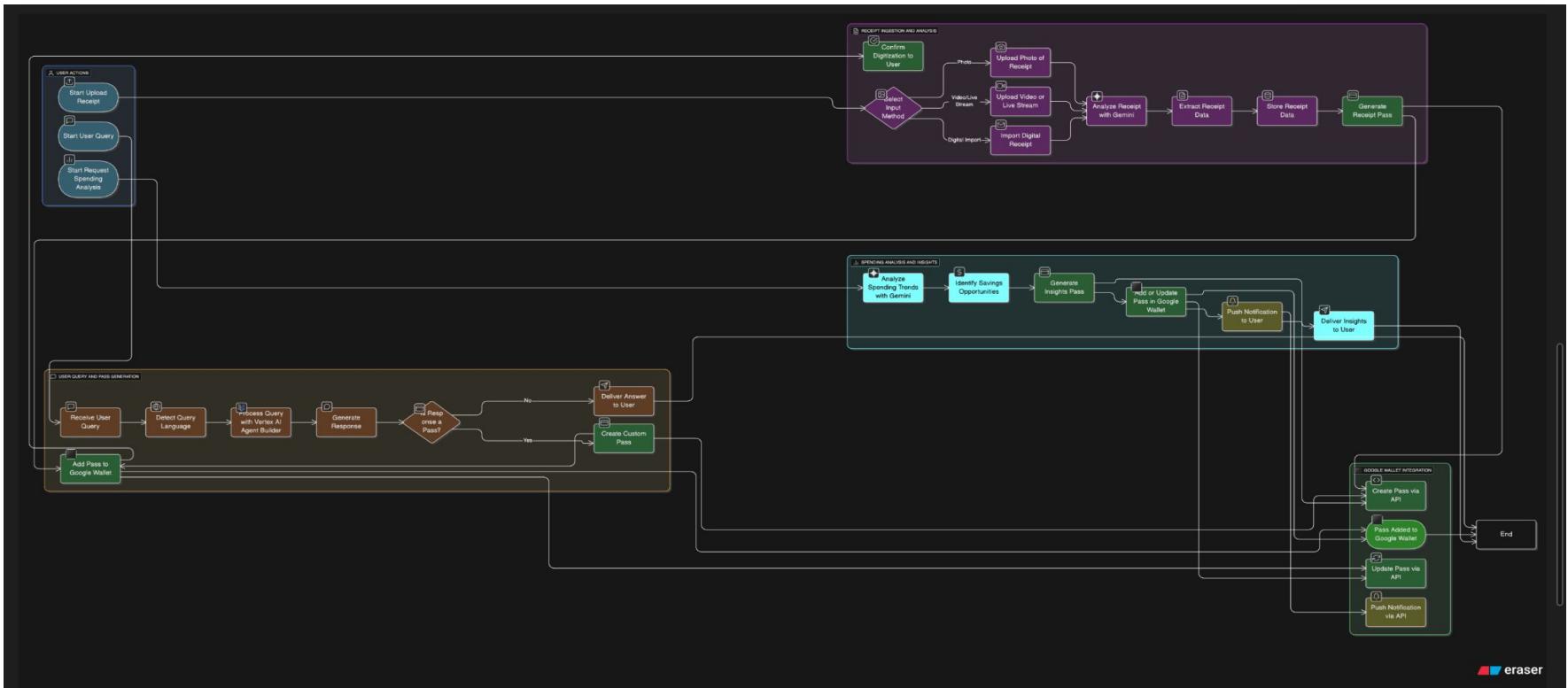
Live insights: See dynamic graphs, timelines, and category analysis, with intelligent Wallet passes that update in real time to reflect how much you've spent and how much you can save.

Chat assistant: Discuss your spending habits in your own language with a Vertex AI-driven bot that interprets your behavior and provides you with personalized, actionable recommendations.

Power notification alerts: Receive reminders when you spend too much, location-based reminders in stores, and even cheaper alternatives, all presented through Wallet notifications.

Smarter Wallet: Transforms Google Wallet into an actual AI-powered money companion that not only stores your cards but actively assists you in maximizing spending and developing improved financial habits.

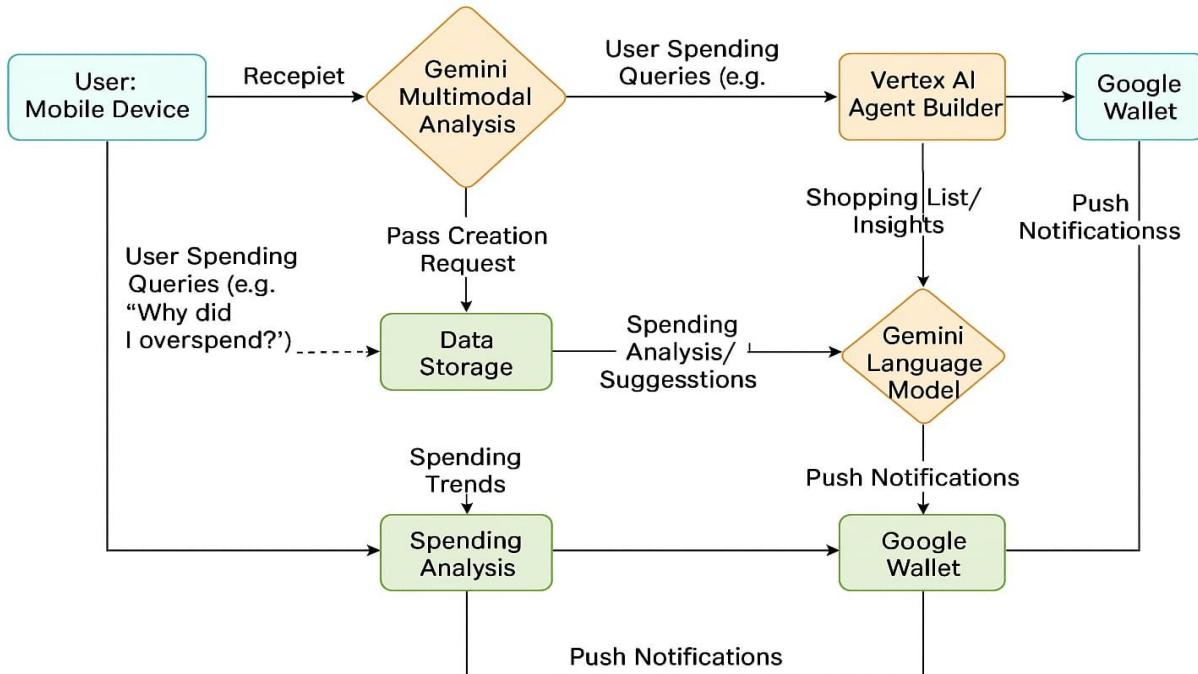
Process flow diagram or use-case diagram



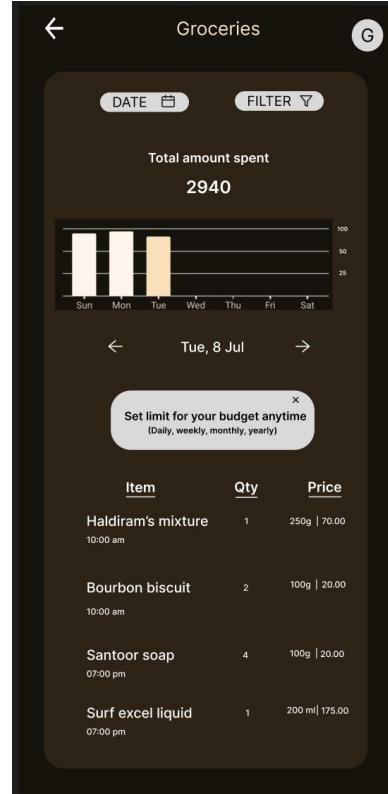
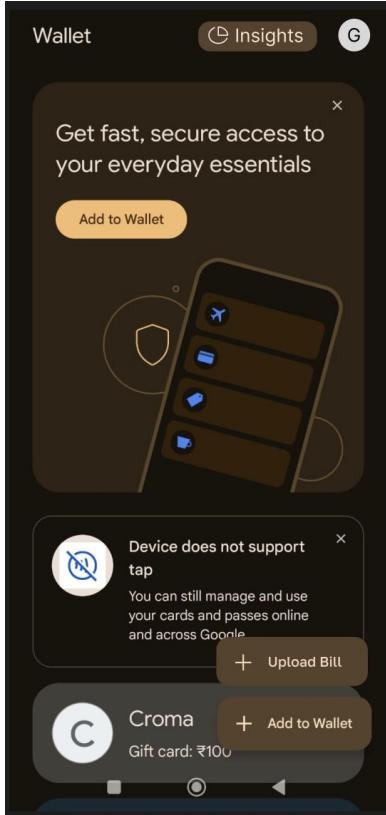
Technologies to be used in the solution

- **Gemini + Cloud Vision + Vertex AI:** Use Gemini 1.5 Pro for analyzing images/videos, Cloud Vision for OCR, and Vertex AI Agent for conversational queries.
- **Translation API:** Supports local languages so users can interact in their preferred tongue.
- **Google Wallet API:** FastAPI connects to the Google Wallet API to dynamically create and update smart passes, transforming Wallet into an AI-driven spending hub..
- **Push Notifications:** Uses Wallet Push API to send intelligent, real-time alerts on spending or savings.
- **Firestore + BigQuery:** Firestore stores structured receipt data, BigQuery uncovers spending trends for deeper insights.
- **Cloud Functions Backend:** Handles processing, orchestrates AI pipelines, and ties everything together.

Architecture diagram of the proposed solution



Wireframes/Mock diagrams of the proposed solution (optional)



The Groceries screen shows a bar chart titled "Total amount spent" with a value of 2940. The x-axis lists days from Sunday to Saturday. A callout bubble says: "Set limit for your budget anytime (Daily, weekly, monthly, yearly)". The table below lists grocery items with their quantities and prices:

Item	Qty	Price
Haldiram's mixture	1	250g 70.00 10:00 am
Bourbon biscuit	2	100g 20.00 10:00 am
Santoor soap	4	100g 20.00 07:00 pm
Surf excel liquid	1	200 ml 175.00 07:00 pm

Sambhar or Starbucks?

Let the Nudglet decide!!!!

And this is Nudglet for you... Kannada or telugu we have got it all covered.

We listen, we judge and we Nudge



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Thank you!

