

# Solution Challenge

AI for a better tomorrow



## Team Details:

A. Team name: **Sparky Trio**



B. Team Leader Name: **John Paul Curada**



John Paul Curada



Kyne Laggui



Caryl Atienza

C. Problem Statement:

*What if we could lessen the impact of diabetes in the Philippines by giving everyone personalized support to **manage it better?***

### Brief about your solution

**Dia Beat This** is an agentic AI web application that transforms diabetes management in the Philippines. Powered by Google's Gemini AI, it proactively learns from user data — including **Fitbit** health metrics (glucose, activity, sleep) and **Google Calendar** schedules — to provide personalized, culturally relevant guidance.

It's a **dynamic companion that anticipates needs, schedules tasks, and delivers scheduled alerts**, making diabetes care accessible and effective for every Filipino.



## Opportunities

- A. How different is it from any of the other existing ideas?

Unlike static apps or basic trackers, Dia Beat This stands out with:

### Agentic Intelligence:

Powered by Gemini AI, it proactively adapts to user behavior — no other tool anticipates needs or evolves with the user like this.

### Cultural Relevance:

Tailors advice to Filipino diets, traditions, and healthcare realities, unlike generic global solutions.

### Scalability:

Web-based design ensures broad access across devices, leveraging **Google Calendar** and **Fitbit** integrations for seamless, low-cost scaling.

- B. How will it be able to solve the problem?

### Better Adherence

- Uses **Google Calendar** to schedule medication, meals, and exercise with adaptive reminders, ensuring practical plans with local ingredients.

### Early Detection

- Monitors **Fitbit** data (glucose, BP, steps) to flag risks, prompting timely doctor visits.

### Education

- Delivers clear, conversational answers via Gemini AI, building self-management skills.

### System Relief

- Organizes health reports for efficient doctor visits, reducing strain on clinics.

- B. USP of the proposed solution

**Dia Beat This** is the only AI companion that turns complex health data into clear, culturally attuned action plans, proactively guiding Filipinos to manage diabetes with confidence — all scalable via **Google Calendar** and **Fitbit** integrations.

## List of Features Offered by the Solution

**1**

### Intelligent Monitoring

Integrates **Fitbit** for real-time glucose, activity, and sleep tracking to inform personalized guidance.

**2**

### Proactive Scheduling

Uses **Google Calendar** to set tailored medication, meal, and exercise reminders, adapting to user routines.

**3**

### Personalized Plans

Creates diet and exercise routines based on **Fitbit** data and prescriptions, featuring Filipino dishes.

**4**

### Health Alerts

Sends real-time notifications for glucose spikes or missed doses via Gemini AI's pattern analysis.

**5**

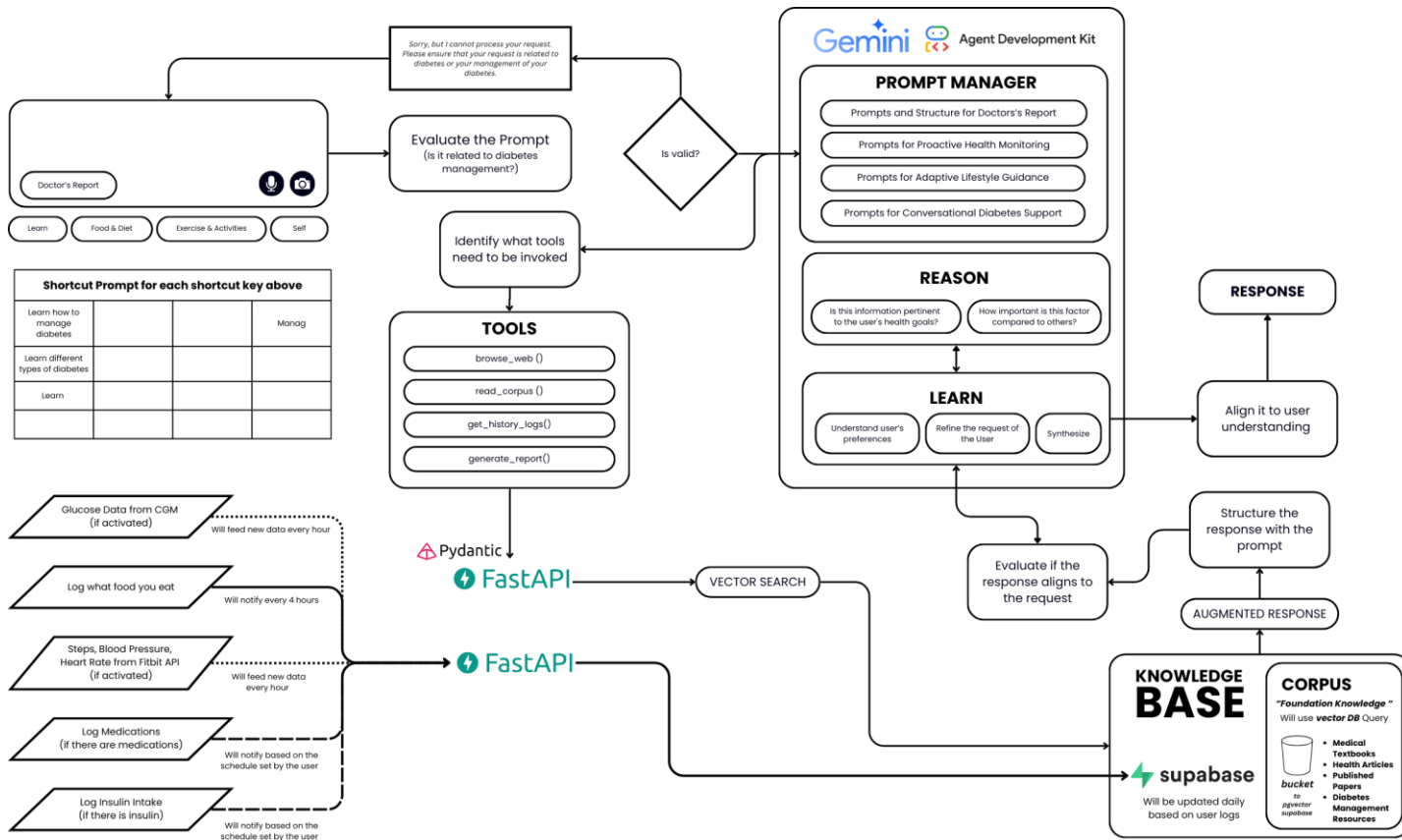
### Doctor Reports

Compiles **Fitbit** and adherence data into clear reports for efficient consultations.

**6**

### Conversational Support

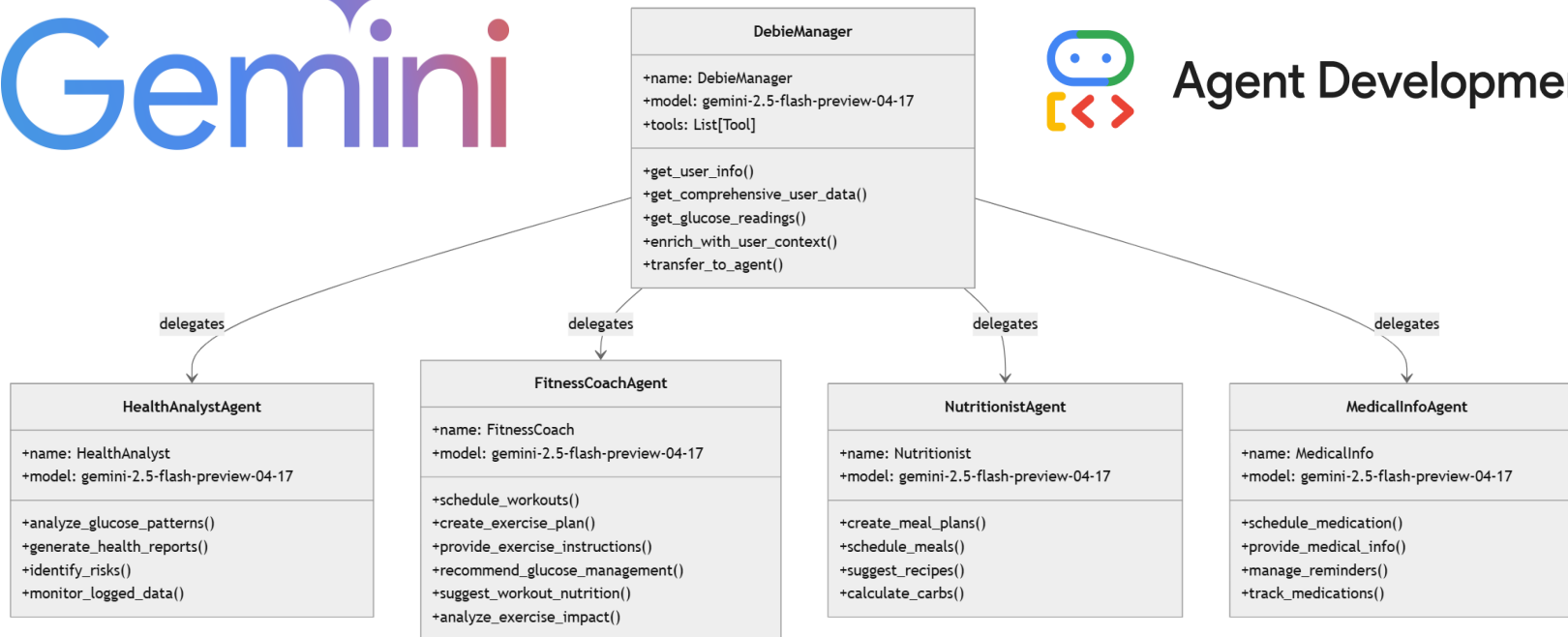
Answers questions in natural language, using Gemini AI to provide accurate, culturally relevant advice..

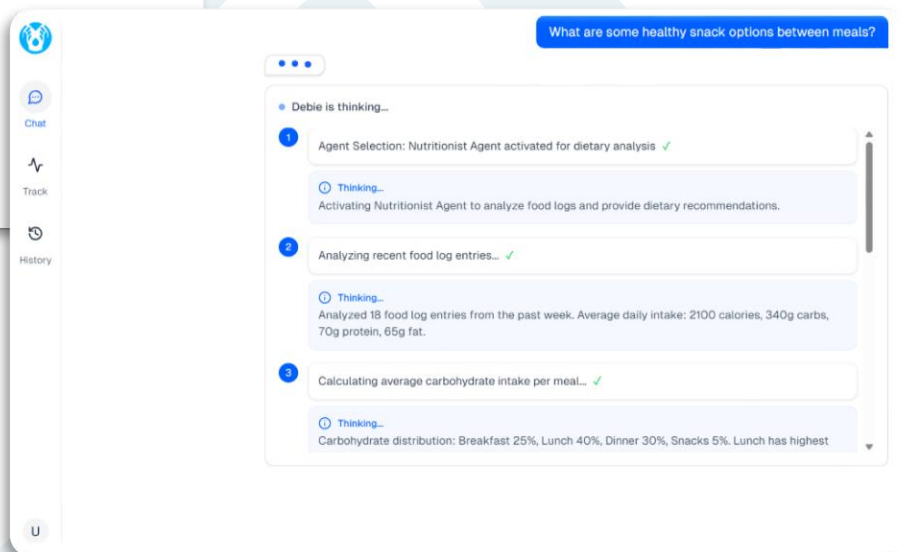
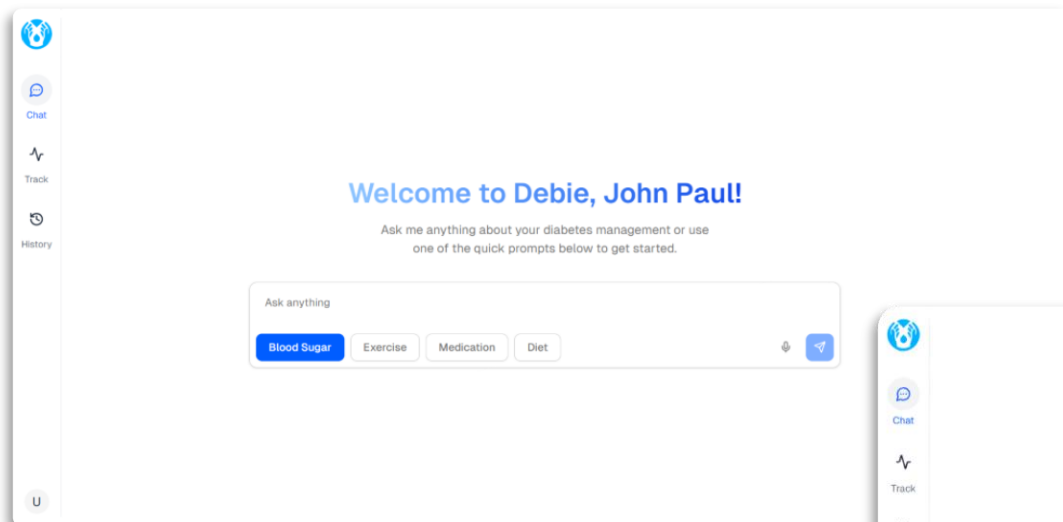


## Agentic AI Flow Diagram



Agent Development Kit





## Technologies to be used in the solution

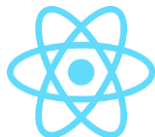
### Back-end



Gemini



### Front-end



shadcn/ui

### Database



supabase

### Tools



Calendar



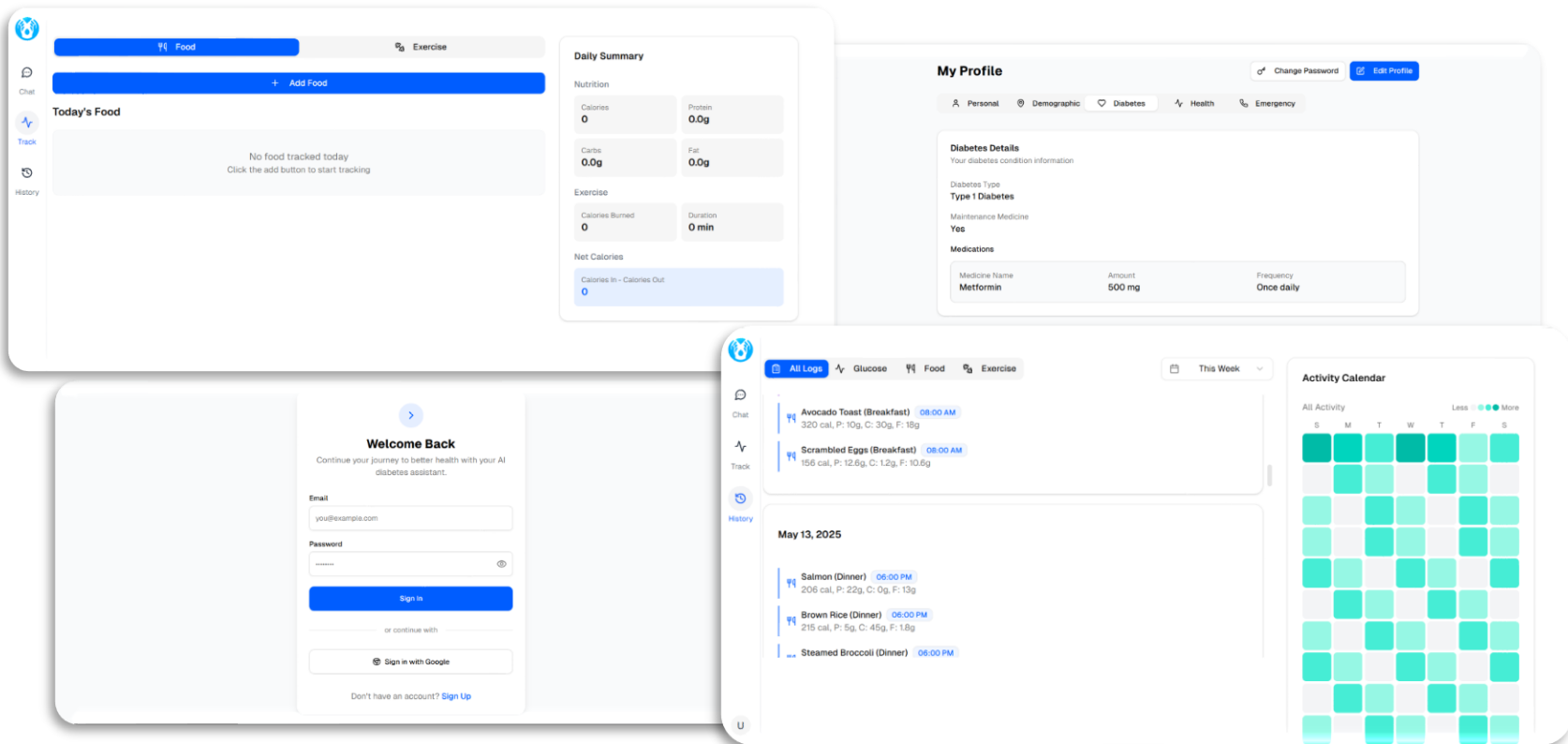
fitbit

### Cloud



Google Cloud Platform

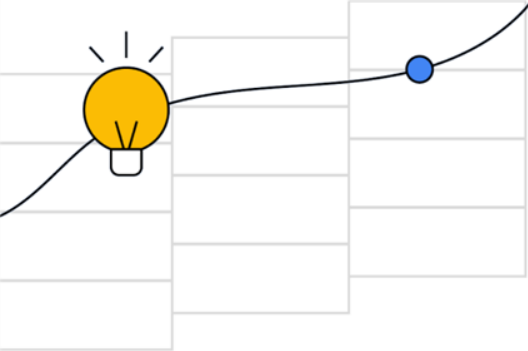




Provide links to your:

1. Demo video link (3 minutes)
2. Working prototype link





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Thank you

