Edunet Foundation - Microsoft Internship on Foundations of Artificial Intelligence (April 2025)

DiabetesManager - Smart Diabetes Management with Al

Egithub Repository

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Idea

DiabetesManager is an AI-powered web application designed to help users manage diabetes more effectively through smart tracking, personalized diet and exercise plans, and instant analysis of blood sugar reports using **Gemini API**.

% Features

- **III Smart Tracking:** Visualize blood sugar levels, medications, and health metrics on a clean dashboard.
- **Q AI-Powered Analysis:** Upload medical reports (PDF) and get instant insights using Google's Gemini AI.
- **Personalized Plans:** Generate tailored diet and exercise recommendations based on ethnicity, medication, allergies, and lifestyle data.



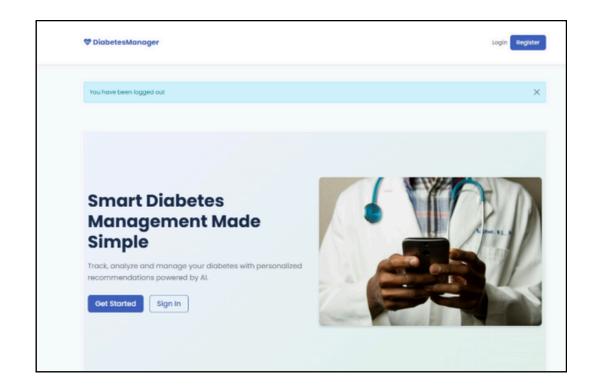
Technologies Used

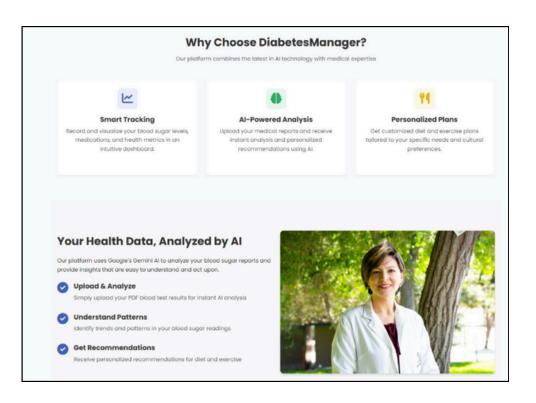
- Frontend: HTML, CSS, JavaScript
- **Backend:** Python, Flask
- **Database:** SQLite
- Al Integration: Google Gemini API
- **Deployment-ready:** Localhost / Cloud-compatible

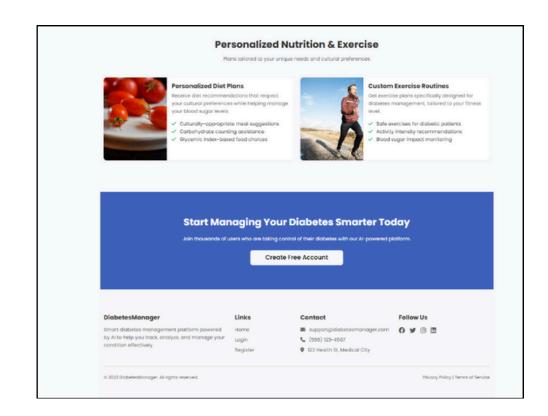
🔐 How Gemini API is Used

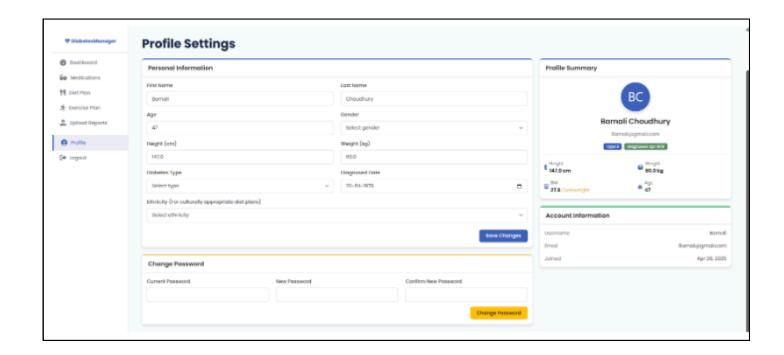
The core AI engine is built on **Gemini API**, which performs the following:

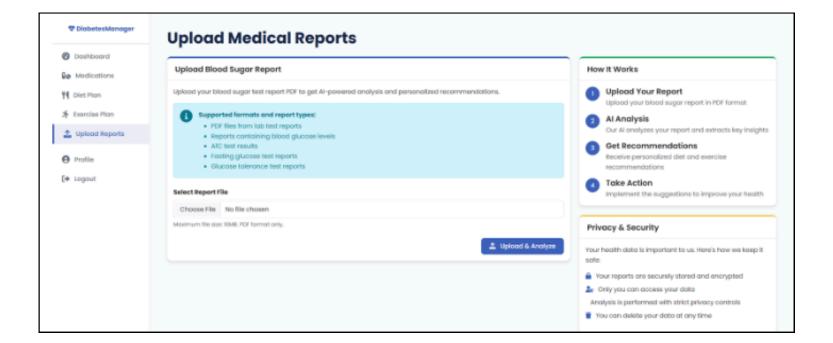
- Extracts and interprets text data from uploaded blood sugar reports
- Identifies **patterns**, **trends**, **and anomalies** in blood glucose levels
- Suggests **personalized interventions** for diet and exercise
- Simulates a physician-like assistant to deliver **AI-generated insights** in natural language

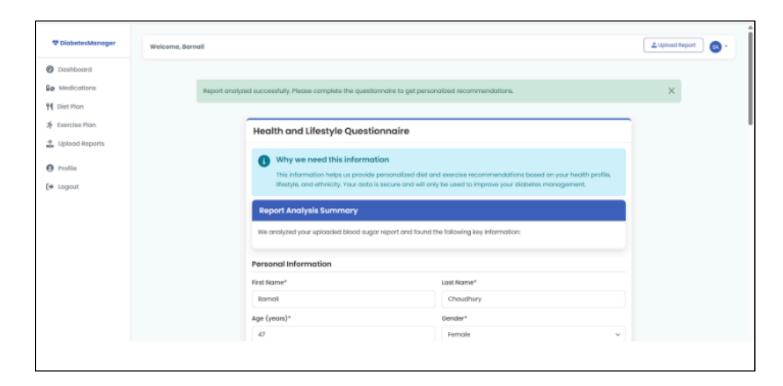


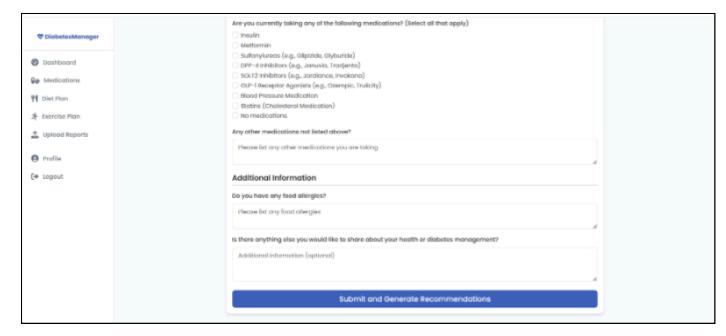


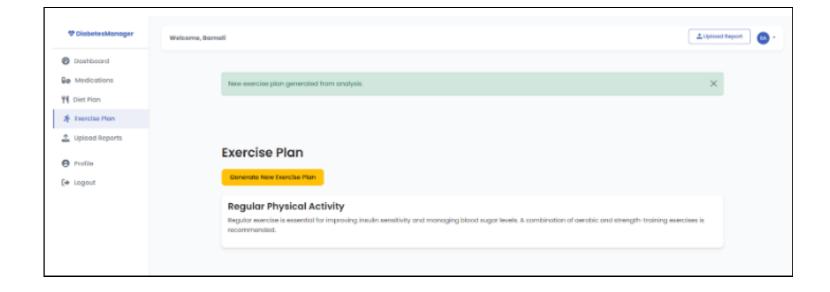


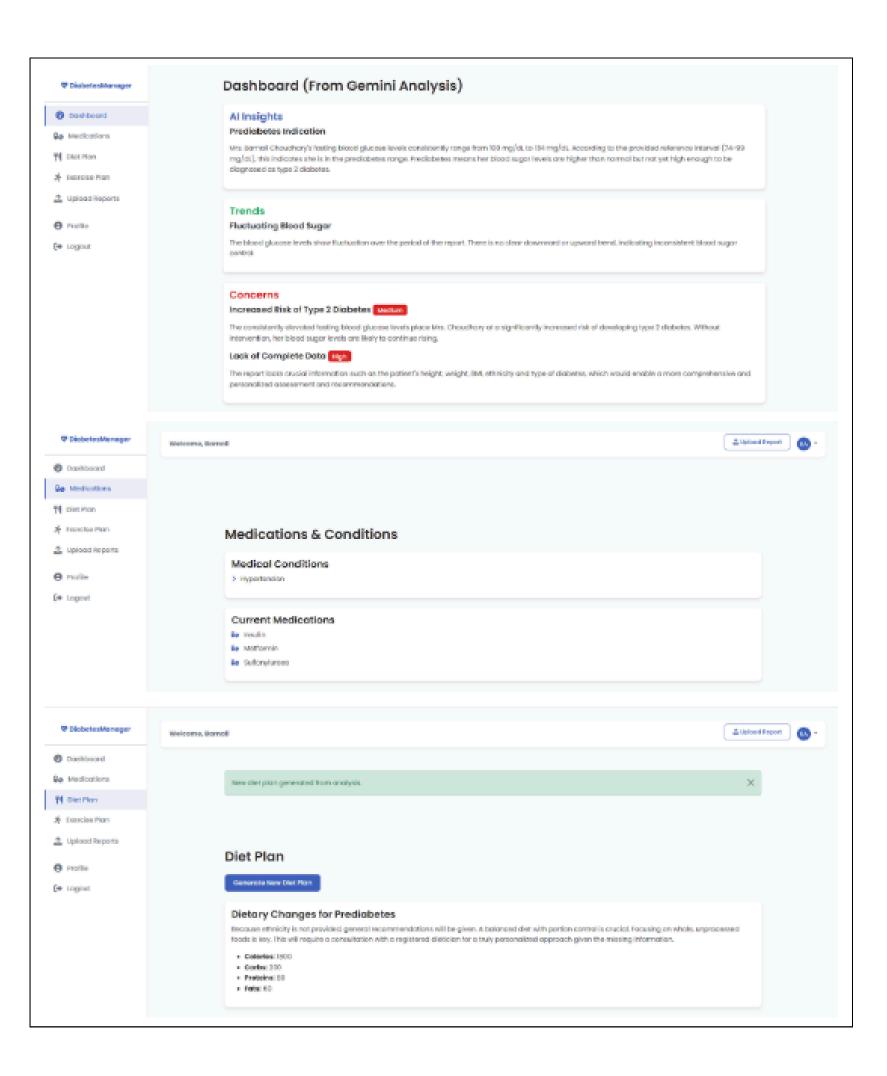












Thankyou



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