

Generative AI with IBM Cloud

Project Documentation format

1. Introduction

- **Project Title:** HealthAI: Intelligent Healthcare Assistant Using IBM Granite
- **Team Members:** Reddy Deepthi - code written
Syed Aswiya - demo video
Pathan Afrin Khatun- documentation

2. Project Overview

- **Purpose:** The purpose of a Health AI project is to enhance healthcare delivery by leveraging artificial intelligence to improve diagnostics, personalize treatments, optimize operations, and support decision-making for better patient outcomes.
- **Features:** Health AI features include predictive analytics, diagnostic support, personalized treatment plans, medical imaging analysis, remote monitoring, natural language processing, workflow automation, real-time alerts, data integration, risk assessment, and virtual health assistants..

3. Architecture

- **Frontend:** It provides a user-friendly web and mobile interface for seamless citizen interaction, service access and real time communication.
- **Backend:** It leverages of AI-engines, data analytics, and secure APIs to process request, manage citizen data and power intelligent decision making.
- **Database:** It securely stores structured and unstructured citizen data, interaction logs.

4. Setup Instructions

- **Prerequisites:** Visual Studio Code
- **Installation:** 1.Install VS code
2. Install Language extensions(Python)
3. Run code in VS code

5. Folder Structure

- VS code structure includes an activity bar, side bar, editor area, status bar and terminal panel, all organized to support efficient code development.

6. Running the Application

- Provide commands to start the frontend and backend servers locally i.e file.py, node app.js.

7. API Documentation

- sk-proj-

GOOGLE_API_KEY = "AIzaSyALFLzUNAAH9TxHjCLAXqx4IwERbWuLO5c" # <--

Replace this

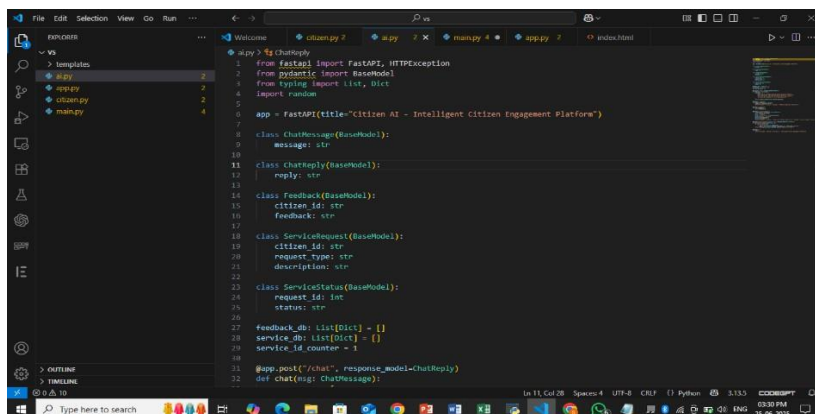
genai.configure(api_key=GOOGLE_API_KEY)-

P6npBtaPdQYYO9G4DQ0XNUAruxNh6TNyfKoJdSfykc7zhhMOZV3qRu6RkA

8. Authentication

- Health Ai platform involves verifying users via secure tokens (like JWT) and managing sessions to maintain users state across interactions.

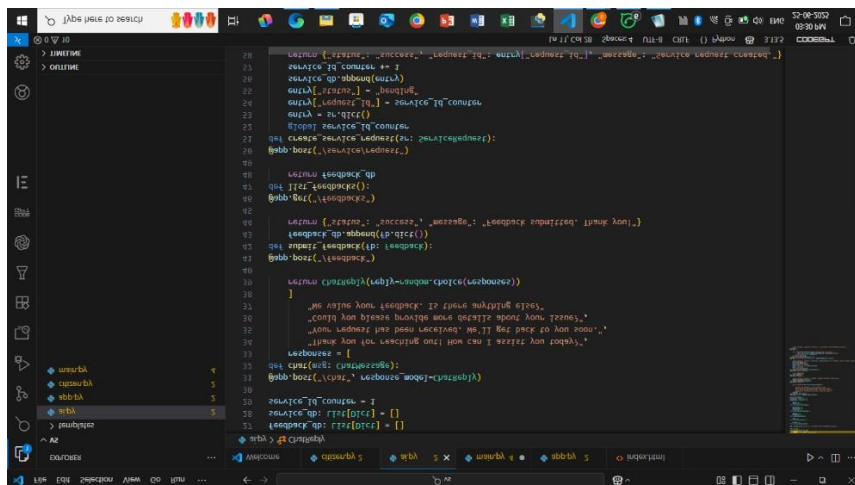
9. User Interface



10. Testing

- Testing Explorer UI-Built-in test runner UI

11. Screenshots



12. Known Issues

- known issues like high CPU usage, extension conflicts, slow startup or failed Git integration

13. Future Enhancements

- It enhanced by adding intuitive no-code model training, automated data validation.