**Generative AI with IBM Cloud Documentation format**

# 1. Introduction

* **Project Title:** HEALTHAI\_APPLICATION
* **Team Members:** list as follows
* **Team Leader :** Gogada Santhosh
* **Team member :** Gaddipati Pushpasri
* **Team member :** Mohammad Nazeemunnisa
* **Team member :** Sk Shabbeer

# 2. Project Overview

* **Purpose:** the objective of the project is such as creating a health-focused AI assistant using generative AI models hosted on IBM Cloud.
* **Features:** Summarize major functionalities like symptom identification, home remedy suggestions, and AI-generated treatment plans.

# 3. Architecture

* **Frontend:** the interface is built—Streamlit, Gradio, or another tool.
* **Backend:** using IBM’s Granite-3B-Instruct or similar models through the IBM Cloud platform
* **Database:** Detail integration with MongoDB Atlas for secure patient data storage.

# 4. Setup Instructions

* **Prerequisites:** List tools like Python, IBM Cloud CLI, MongoDB, and required Python packages.
* **Installation:** Step-by-step guide for cloning the repo, installing dependencies, and setting up .env configurations.

# 5. Folder Structure

* **Client:** Structure of the user interface components
* **Server:** Organization of AI inference, database, and API logic.

# 6. Running the Application

• Provide commands to start the frontend and backend servers locally.

o **Frontend:** streamlit run app.py **Backend:** MongoDB connection setup, IBM API setup

# 7. API Documentation

* Document all endpoints exposed by the backend.
* Include request methods, parameters, and example responses.

# 8. Authentication

Secure handling of API keys, user sessions, and database access with .env and IAM principles

1. **User Interface** 
   * [C:\Users\gsant\OneDrive\Pictures\Screenshot 2025-06-27 074010.png](file:///C:\Users\gsant\OneDrive\Pictures\Screenshot%202025-06-27%20074010.png).
2. **Testing** 
   * testing methods (unit testing, integration tests) and tools used (e.g., pytest, Postman).
3. **Screenshots or Demo** 
   * <https://drive.google.com/file/d/16auOM5V7y-NQxOdPLFaa9H1afzDCYoYU/view?usp=sharing>.
4. **Known Issues** 
   * Document existing limitations—API latency, incomplete model responses, etc.

# 13. Future Enhancements

• Document existing limitations—API latency, incomplete model responses, etc.