

HEALTHAI: Intelligent Healthcare Assistant using IBM Granite

- **INTRODUCTION**

- **Project Overview**

HEALTHAI: Intelligent Healthcare Assistant using IBM Granite is a generative AI-powered application designed to provide smart healthcare support to patients through an interactive and intuitive interface. The system leverages IBM's Granite language model to facilitate health-related conversations, predict diseases based on symptoms, suggest possible treatment plans, and display useful health analytics. Developed using Python and Streamlit, the application aims to simplify patient engagement and support early diagnosis and treatment planning through AI.

- **Purpose**

The primary purpose of this project is to harness the power of Generative AI for delivering accessible, reliable, and intelligent healthcare support. HEALTHAI serves as a virtual health assistant that helps users:

- Get instant responses to general health queries.
- Predict diseases based on symptoms using AI.
- Receive relevant treatment suggestions.
- View simple, clear analytics on health trends.

This project also demonstrates the practical application of IBM Granite models in solving realworld healthcare problems, fulfilling academic and internship goals under the IBM Generative AI program.

IDEATION PHASE

- **Problem Statement**

Date: 27 June 2025

Team ID: LTVIP2025TMID59346

Project Name: Health AI: Intelligent Healthcare Assistant Using IBM Granite.

Marks: 4 Marks

Customer Problem Statement Template

Create a problem statement to understand your customer's point & view. The Customer Problem Statement helps you focus on what mat-ters to create experiences people will love.

A well-articulated customer problem statement allows your team and your users to find the ideal solution your business faces. Throughout the process, you'll also be able to empathize with your customer so you better understand your

Template: <https://miro.com/templates/customerproblem-statement/>

Example:

Problem Statement (PS)	(i am)	I'm trying to	But	Which makes me feel
PS-1	a patient	manage my health effectively	I face difficulty	frustrated and anxious about my well-being
I'm		manage my health effectively	I face continued and lacks processing and medical insurances' the current healthcare system is fragmented and lacks proactive support	

• Empathy Map Canvas

Date: 27 June 2025

Team ID: LTVIP2025TMID59346

Project Name: Health AI: Intelligent Healthcare Assistant Using IBM Granite Maximum

Marks: 2 Marks

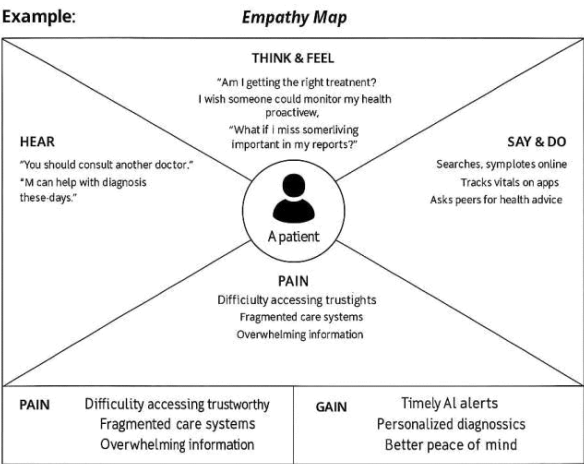
Empathy Map Canvas

An empathy map is a simple, easy-to-digest visual that captures knowledge about a user's behaviors and attitudes.

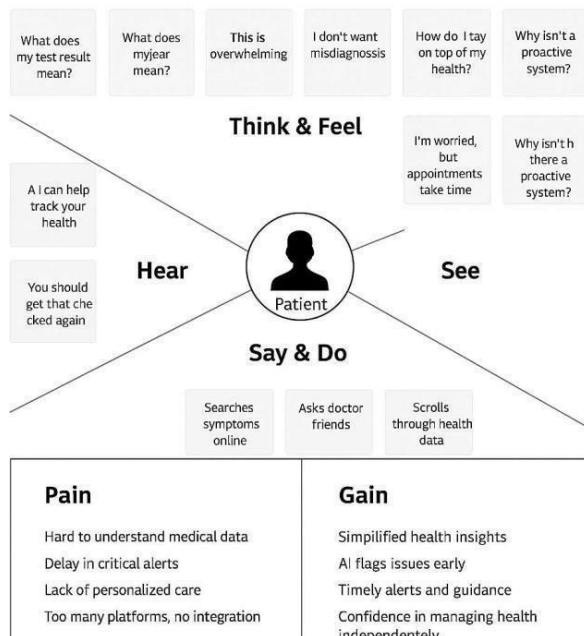
It is useful to helping teams understand their users.

Creating an effective solution requires understanding the person who is experiencing it. Examine participants consider how participants consider user needs, goals, and challenges

Example:



Reference: <https://www.mural.co/templates/empathy-map-canvas>



- **Brainstorming**

Date: 27 June 2025

Team ID: LTVIP2025TMID59346

Project Name: Health AI: Intelligent Healthcare Assistant Using IBM Granite Maximum

Marks: 4 Marks

Brainstorm & Idea Prioritization in Health AI

Brainstorming in Health AI promotes free, creative thinking to generate innovative solutions for healthcare challenges using artificial intelligence. To collect a wide range of ideas from diverse team members, then prioritize based on impact, feasibility, and urgency. Encourage maximum idea generation, regardless of practicality at first.

Cross-functional team members (AI developers, clinicians, analysts) co-create ideas. Ideal for distributed teams using tools like Miro or Mural. AI-driven symptom checking, disease prediction,

Step-1: Team Gathering, Collaboration and Select the Problem Statement



Health AI & idea prioritization

Use this template in your own brainstorming sessions so your team can explore applications of AI in healthcare.

10 minutes to prepare
1 hour to collaborate
3-8 people recommended

1

Before you collaborate

A little bit of preparation goes a long way with this session. Here's what you need to go go

10 minutes

Team gathering

Define objectives participants for session and send an invite. Share relevant resources and prep work.

Set the goal

Frame the core problem you'll be focusing on solving in the brainstorm.

Learn how to use the facilitation tools

Find tutorials and documentation to learn a happy and productive brainstorm

[Open article](#)

1

Define your problem statement

What problem are you trying to solve? Frame your problem as How Might We. This will be the focus of your

5 minutes

How might we
[our problem statement]



Key rules of brainstorming

- Stay on topic Encourage wild ideas
- Defer judgement Listen to others
- Go for volume It's possible, be visual

treatment plans, and patient engagement

tools. Impact – Patient outcomes and healthcare system improvement. Feasibility – Technical readiness with health regulations. **Reference:** Brainstorm and idea prioritization template | Mural

Step-2: Brainstorm, Idea Listing and Grouping



Health AI & idea prioritization

In a brainstorming session, list and group ideas for addressing your problem statement:

Health AI

Symptom checker

Image analysis

Data integration

Remote monitoring

Productive analysis

Medical records

Risk assessment

Clinical account support

AI for chronic

ulcer management

Core capabilities
for chronic
ulcer management

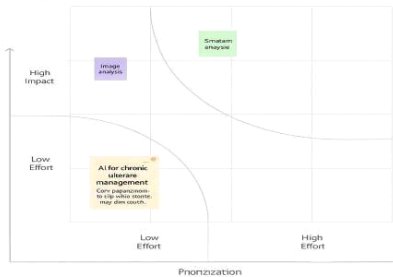
Step-3: Idea Prioritization

In the quadrant shown below, plot the most valuable ideas, analyzing impact on the problem vs. effort to implement



Prioritization

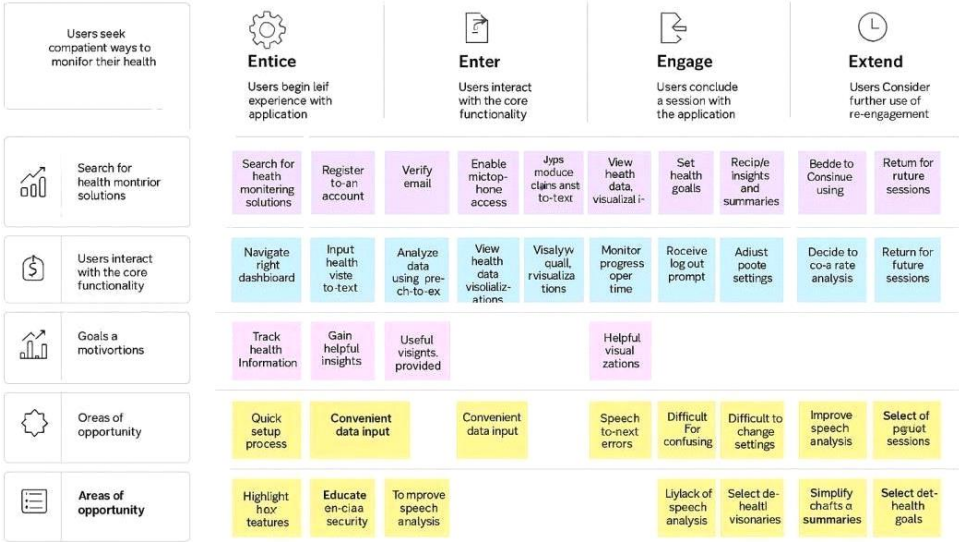
In the quadrant shown below, plot the most valuable ideas analyzing impact on implement



• REQUIREMENT ANALYSIS

• Customer Journey Map

Health AI



• Solution Requirement

Solution Requirements (Functional & Non-functional)

Date	27 June 2025
Team ID	LTVIP2025TMID59346

Project Name	HealthAI-Intelligent Healthcare Assistant Using IBM Granite
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FRNo.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Disease Prediction	Symptom-based prediction Model scoring using IBM Granite AI
FR-4	Health Assistant Chat	Natural language query handling Context-aware health response

FR-5	Treatment Plan Recommendation	Display treatments based on disease Explain predicted outcome
FR-6	Health Analytics	View past predictions Graphs for health trends

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Functional Requirement	Sprint	Story ID	User Story / Task	Story Points	Priority
Registration	Sprint 1	US#4	As a user, I can register for the application (US3)	5	High
		US#2	As a user, oral responses can be analyzed using speech-to-text (US2)	8	High
Login	Sprint 1	US#3	As a user, health data can be input into system	7	High
		US#1	As a user, I can log in to the application	2	High
Dashboard	Sprint 2	US#1	As a user, I can view health data visualizations on the central (US5) dashboard	2	Medium

• Data Flow Diagram

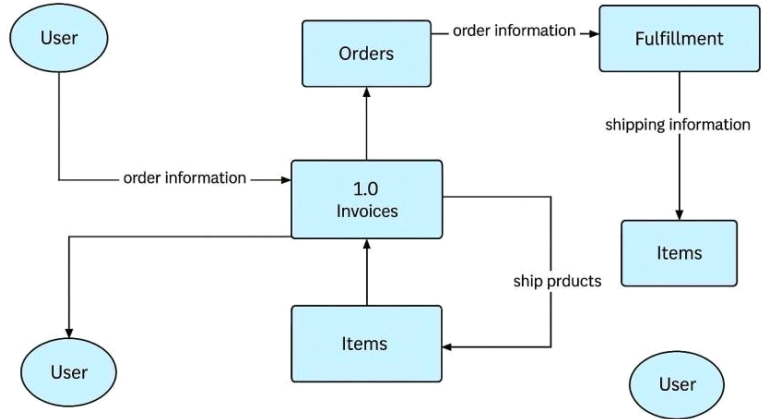
Data Flow Diagram & User Stories

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Maximum Marks	2 Marks






Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

Example: DFD Level 0 (Industry Standard)



Health AI

User Type	Functional Requirement	User Story /Task	Acceptance criteria	Priority	Rele
 Customer (Mobile user)	Registration	As a user, I can register by providing an email and password.	Email and password can be used to log in	High	Spr 1
	USS1	As a user, I will receive confirmation email	Confirmation email received	High	Spr 1
 Tester	USS2	As a user, I can enable systemwide speech-t-o-text	Speech-to-text is active throughout the app	Low	Spr 2
 Administrator	USS3	As a tester, I can analyze speech responses	Speech responses are analyzed correctly	Medium	Spr 1
	USS4	As an admin, I can view health data visualizations		Sprint 1	Spr 1
 Administrator	US4	As a tester, I can analyze speech responses	Speech responses are analyzed correctly	Medium	Spr 1
 Visualizaation	US5	As a tester, I can analyze speech responses	Health data visualizations are available	High	Spr 1

- Technology Stack

Technology Stack (Architecture & Stack)

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Maximum Marks	4 Marks






Technical Architecture – HealthAI

HealthAI’s technical architecture is designed to provide intelligent, personalized, and accessible healthcare assistance using IBM’s AI capabilities. The architecture bridges the gap between healthcare

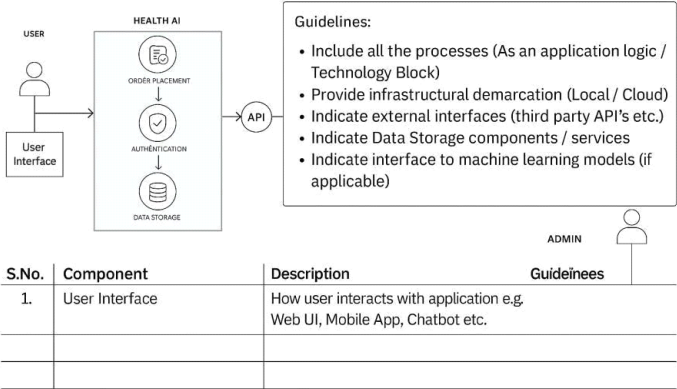
user needs and AI-driven digital solutions by clearly defining modules, workflows, and technology integrations.

It follows principles of modular design, AI integration, secure backend logic, and interactive frontend experiences.

References – Adapted for HealthAI

- C4 Model – Software Architecture Visualization Used as the base modeling approach to define different levels of HealthAI’s architecture (context, container, component). 
<https://c4model.com/>
- IBM Order Processing System (Pandemic Reference) Inspired HealthAI’s backend design by using modular components and AI-powered services similar to order-processing use cases. 
<https://developer.ibm.com/patterns/online-order-processing-system-during-pandemic/>
- IBM Cloud Architecture Center Provided best practices and patterns for integrating AI models and deploying cloud-based healthcare applications. 
<https://www.ibm.com/cloud/architecture>
- AWS Architecture Best Practices Used as a comparative reference to validate HealthAI’s scalability, resilience, and service-based integration approach. 
<https://aws.amazon.com/architecture>
- How to Draw Useful Technical Architecture Diagrams Guided the creation of simplified, functional diagrams for HealthAI's backend and AI data flow. 
<https://medium.com/theinternalstartup/how-to-draw-useful-technical-architecture-diagrams-2d20c9fda90d>

Health AI



Health AI Technology Stack

- Application Logic-1: Patient intake and triage processing Python / Java IBM Watson STT
- Application Logic-2: Voice transcription for patient interactions IBM Watson Assistant
- Database MySQL / MongoDB
- Cloud Database IBM DB2 / IBM Cloudant
- File Storage: Medical imaging and document IBM Block Storage / Local Filesystem
- External API-1 IBM Weather API
- Real-time environmental health tracking Aadhaar API
- External API-2 Aadhaar API
- Machine Learning Model Custom Object Recognition Model
- Medical image classification
- Infrastructure Cloud Foundry / Kubernetes / Local Server
- Scalable deployment for clinical environments

• PROJECT DESIGN

• Problem Solution Fit

Problem – Solution Fit Template :

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Project Name	HealthAI-Intelligent Healthcare Assistant Using IBM Granite
Maximum Marks	2 Marks

Problem – Solution Fit Template : HealthAI solves a frequent and urgent problem: lack of easy access to valid healthcare information and insights. It taps into the existing behavior of users searching for medical information online and replaces it with a credible, AI-powered platform.

Purpose :

- ☑ Solve complex health-related problems using intelligent and accessible AI assistance
- ☑ Increase solution adoption by reflecting how users already seek medical information online
- ☑ Improve communication using conversational chat and visual analytics
- ☑ Build user trust with consistent, evidence-based responses

Health AI Problem-Solution-Fit Template

CS CUSTOMER SEGMENTS	CUSTOMER SEGMENTS (CS) Who are your target users? e.g. elderly individuals with chronic conditions, rural patients with limited access to healthcare, or caregivers of Alzheimer's patients.	JOBS-TO-BE-DONE / PROBLEMS (J&P) What specific health challenges do they face? e.g. medication adherence, early diagnosis, appointment management, lifestyle monitoring.	
	TRIGGERS (TR) What drives users to seek a solution? e.g. worsening symptoms, hospital readmission, advice from a physician or caretaker.	EMOTIONS: BEFORE / AFTER (EM) How do they feel before the solution vs. after? e.g. digital literacy, cost, lack of smartphones, unreliable internet.	
CC CUSTOMER CONSTRAINTS	CUSTOMER CONSTRAINTS (CC) What obstacles might prevent them from accessing help? e.g. digital literacy, cost, lack of smartphones, unreliable internet.	BEHAVIOUR (BE) What do users do to manage their health problems? e.g. rely on memory for meds, ask family members for help.	CHANNELS OF BEHAVIOUR (CH) 8.1 Online: • Health forums, • YouTube health advice, telemedicine apps. 8.2 Offline: • primary care visits, • local health camps, support groups.
	PROBLEM ROOT CAUSE (RC) What's the deeper reason this problem exists? e.g. lack of awareness, systemic inefficiencies.	YOUR SOLUTION (SL) Describe your Health AI product or concept.	

References :

- <https://www.ideahackers.network/problem-solution-fit-canvas/>
- <https://medium.com/@epicantus/proble> HYPERLINK "https://medium.com/%40epicantus/problem-solution-fit-canvas-aa3dd59cb4fe"m HYPERLINK "https://medium.com/%40epicantus/problem-solution-fit-canvas-aa3dd59cb4fe"- HYPERLINK "https://medium.com/%40epicantus/problem-solution-fit-canvas-aa3dd59cb4fe"solutio HYPERLINK "https://medium.com/%40epicantus/problem-solution-fit-canvas-aa3dd59cb4fe"n HYPERLINK "https://medium.com/%40epicantus/problem-solution-fit-canvas-aa3dd59cb4fe"-fi HYPERLINK "https://medium.com/%40epicantus/problem-solution-fit-canvas-aa3dd59cb4fe"t HYPERLINK "https://medium.com/%40epicantus/problem-solution-fit-canvas-aa3dd59cb4fe"- HYPERLINK "https://medium.com/%40epicantus/problem-solution-fit-canvas-aa3dd59cb4fe"canva HYPERLINK "https://medium.com/%40epicantus/problem-solution-fit-canvas-aa3dd59cb4fe"s HYPERLINK "https://medium.com/%40epicantus/problem-solution-fit-canvas-aa3dd59cb4fe"- HYPERLINK "https://medium.com/%40epicantus/problem-solution-fit-canvas-aa3dd59cb4fe"aa3dd59cb4 HYPERLINK "https://medium.com/%40epicantus/problem-solution-fit-canvas-aa3dd59cb4fe"fe
- **Proposed Solution**

Date	27 June 2025
Team ID	LTVIP2025TMID59346
Project Name	HealthAI-Intelligent Healthcare Assistant Using IBM Granite
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill following information in the proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Identify a pressing issue in healthcare your AI aims to adress
2.	Idea / Solution description	Summarize your Health AI solution and how it works
3.	Novelty / Uniqueness	What makes your idea different from existing healthcare technologies?
4.	Social Impact / Customer Satisfaction	How will it improve lives, patient outcomes, or user experience?
5.	Business Model (Revenue Model)	How will your solution generate revenue or remain sustainable?

- **Solution Architectur**

Date	27 June 2025
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Team ID	LTVIP2025TMID59346
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Maximum Marks	2 Marks

✓ **Solution Architecture – HealthAI**

Solution architecture in HealthAI serves as the bridge between real-world healthcare challenges and advanced AI-driven technology. It outlines how HealthAI is built to deliver accurate, personalized, and responsive medical support.

🎯 **Goals of HealthAI’s Solution Architecture:**

- Identify the most effective AI-driven technology to solve the problem of inaccessible or unreliable healthcare information.
- Design the complete structure — from user input (like symptoms or questions) to backend AI processing using IBM Granite and secure API handling.
- Define key features and development phases, including modules like:
 - Patient Chat o Disease Prediction o Treatment Plan Generation o Health Analytics

□ **Key Characteristics of the HealthAI Architecture:**

Modular and Scalable Design: Each core functionality is independently built using Python and Streamlit.

AI Integration: IBM Granite (13B Instruct v2) is used to process all medical queries and generate accurate, natural-language responses.

User Interface: Streamlit provides an intuitive frontend with form-based inputs, chatbot interfaces, and dynamic visualizations using Plotly.

Data Flow: User inputs are sent to the AI model via a central shared function (shared_model.py), processed securely, and returned in structured output.

Security: Environment variables (.env) are used for API key management to protect sensitive credentials.

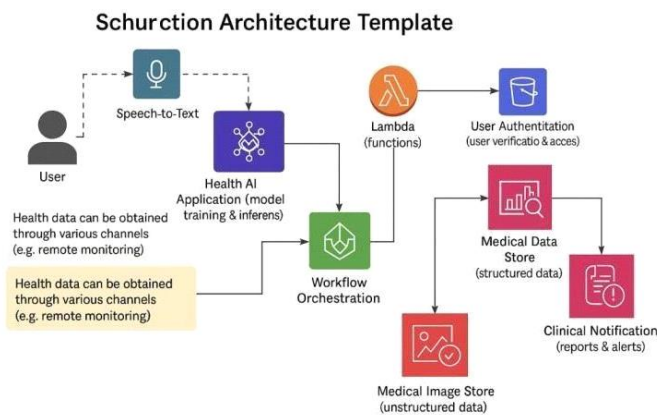


Figure 1: Architecture and data flow of the health AI system

• PROJECT PLANNING & SCHEDULING

5.1 Project Planning

Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

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Project Name	HealthAI-Intelligent Healthcare Assistant Using IBM Granite
Maximum Marks	4 Marks

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let’s calculate the team’s average velocity (AV

**Product Backlog, Sprint Schedule, and Estimation
(4 Marks)**

Functional Requirement	Sprint	User Story / Task	Story Points	Priority
Registration	Sprint 1	As a user, I can register for the application (US1)	5	High
Registration	Sprint 1	As a user, real responses can be analyzed using speech-to-text (US2)	8	High
Login	Sprint 1	As a user, health data can be input into system (US3)	7	High
Dashboard	Sprint 2	As a user, I can log in to the application (US4)	4	Medium
Dashboard	Sprint 2	As a user, I can view health data visualizations on the central dashboard (US5)	2	Medium

Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

**Product Backlog, Sprint Schedule, and Estimation
(4 Marks)**

Functional Requirement	Sprint	Story ID	User Story / Task	Story Points	Priority
Registration	Sprint 1	US#4	As a user, I can register for the application (US3)	5	High
		US#2	As a user, oral responses can be analyzed using speech-to-text (US2)	8	High
Login	Sprint 1	US#3	As a user, health data can be input into system	7	High
		US#1	As a user, I can log in to the application	2	High
Dashboard	Sprint 2	US#1	As a user, I can view health data visualizations on the central dashboard (US5)	2	Medium

• **FUNCTIONAL AND PERFORMANCE TESTING**

6.1 Performance Testing

Functional & Performance Testing Template

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Maximum Marks	

Model Performance Test

Test Scenarios & Result

Health AI Test Scenarios & Results

Test Case	Scenario (What to test)	Expected Result	Result
HT-A1	Input Validation	Valid inputs accepted	Pass
HT-A2	Name Input	Accepts alph, values	Accepts valid values
HT-A3	Symptom Input	Logg correctly	Symptoms log correctly
HT-A4	Content Generation	Created accurately	Generated accurately
HT-A5	API Connection	API responds	API responds
HT-A6	Response Time	Should be accepstable	Within an acceptable
HT-A7	User submittity multiple inputs	Should not slow	Pass
HT-A8	Upload transfer speed during micage	Should not lag	Should not lag

- RESULTS


- Output Screenshots


The screenshot displays the HealthAI web application interface. The browser's address bar shows the URL 'healthcareai-7777.streamlitapp'. The application has a dark theme and features a header with the title 'HealthAI - Intelligent Healthcare Assistant' and a logo. Below the header, there are two main sections: 'Patient Profile' on the left and 'AI-Powered Healthcare Assistant' on the right. The 'Patient Profile' section includes input fields for 'Name', 'Age' (set to 30), 'Gender' (set to Male), 'Medical History', and 'Current Medications'. The 'AI-Powered Healthcare Assistant' section has a text input field where the user has entered 'i am feeling ill'. Below this input is a blue button labeled 'Know what is the problem'. The assistant's response is displayed in a green box, providing a list of questions to assess symptom severity and home remedies for mild symptoms. A 'Manage app' button is visible in the bottom right corner of the application interface.

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healthcareai-7777.streamlitapp

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 **HealthAI - Intelligent Healthcare Assistant** ©

 **Patient Profile**


Name

Age - +

Gender ▾

Medical History

Current Medications

 **AI-Powered Healthcare Assistant**

Enter your health concern:

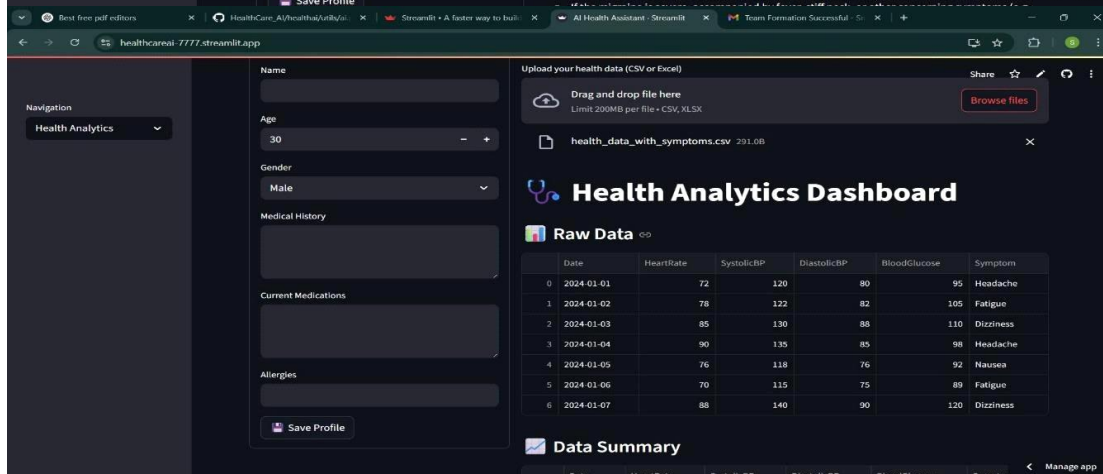
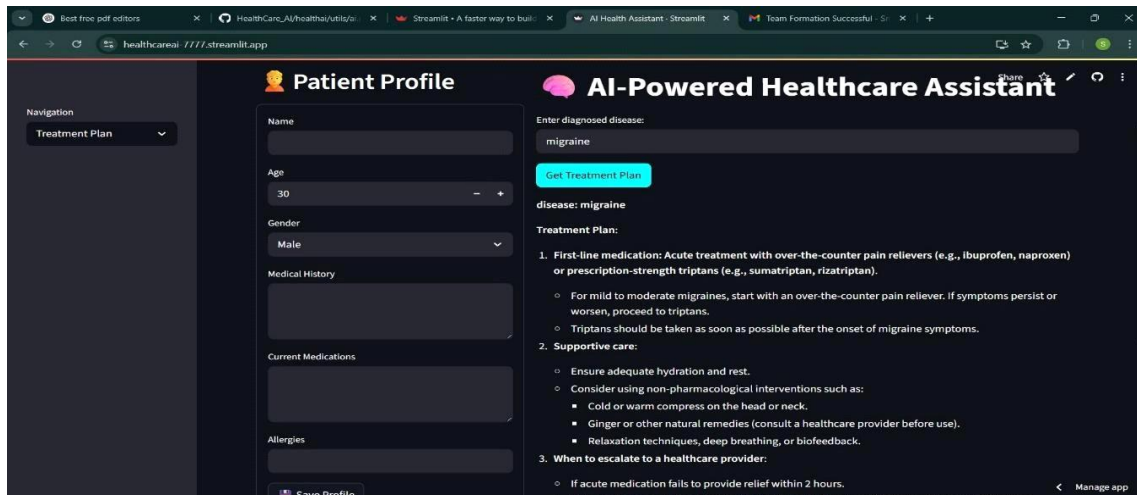
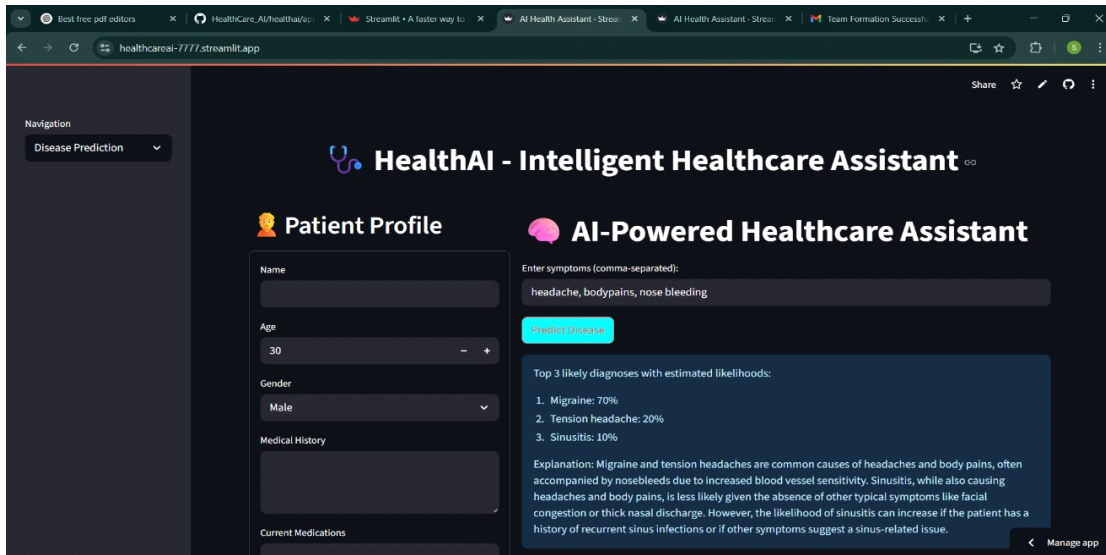
1. Assess the severity of symptoms:

- Have you experienced fever, chills, or body aches?
- Are you experiencing shortness of breath or chest pain?
- Have you noticed changes in your appetite or sleep patterns?

2. Home remedies for mild symptoms:

- If you're experiencing a common cold or flu:
 - Stay hydrated by drinking plenty of fluids (water, herbal tea, etc.)
 - Rest and get adequate sleep to boost your immune system.

< Manage app





• ADVANTAGES & DISADVANTAGES

Advantages:

- ✓ 24/7 Accessibility: Users can access healthcare assistance anytime without waiting for a doctor.
- ✓ AI-Powered Responses: Quick and intelligent answers using IBM Granite enhance user experience.
- ✓ Early Disease Prediction: Helps in identifying potential health issues at an early stage.
- ✓ Modular System: Divided into four independent modules for better organization and usability.
- ✓ User-Friendly Interface: Built using Streamlit, it provides a simple and intuitive experience.
- ✓ Cost-Effective: Reduces the need for continuous human supervision in basic healthcare queries.

Disadvantages:








- ✗ Not a Replacement for Doctors: Cannot replace actual medical consultation or diagnosis.
- ✗ Depends on Internet Connection: Requires stable internet to function effectively.
- ✗ Limited to Pretrained Knowledge: IBM Granite model may not always be updated with the latest medical information.

-  Security & Privacy: Requires strict handling of user data for ethical and legal compliance.

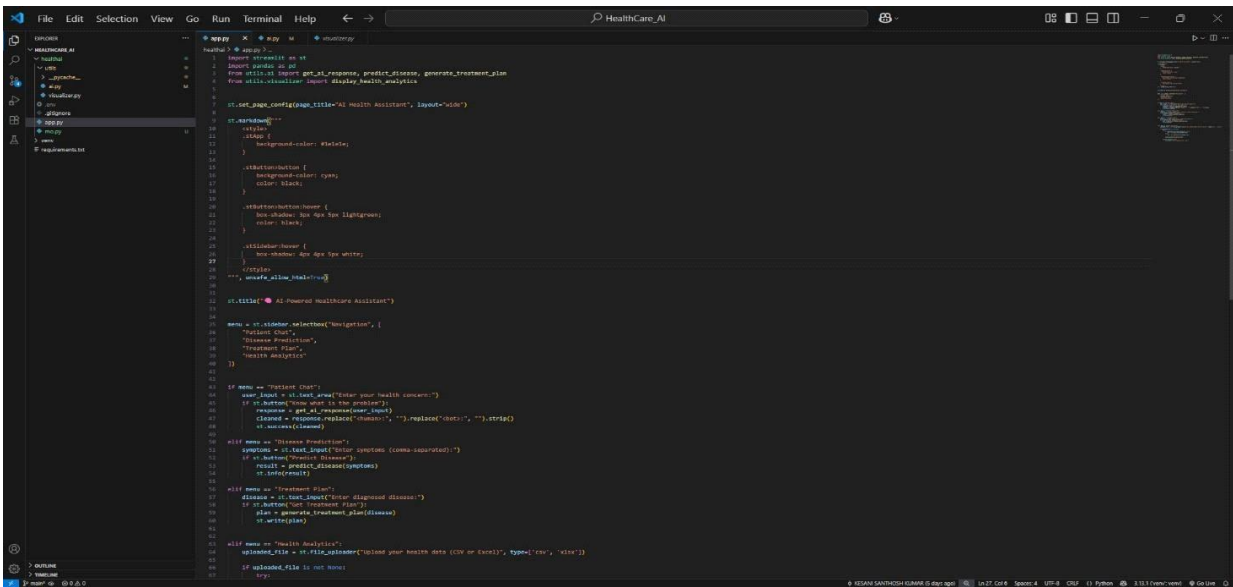
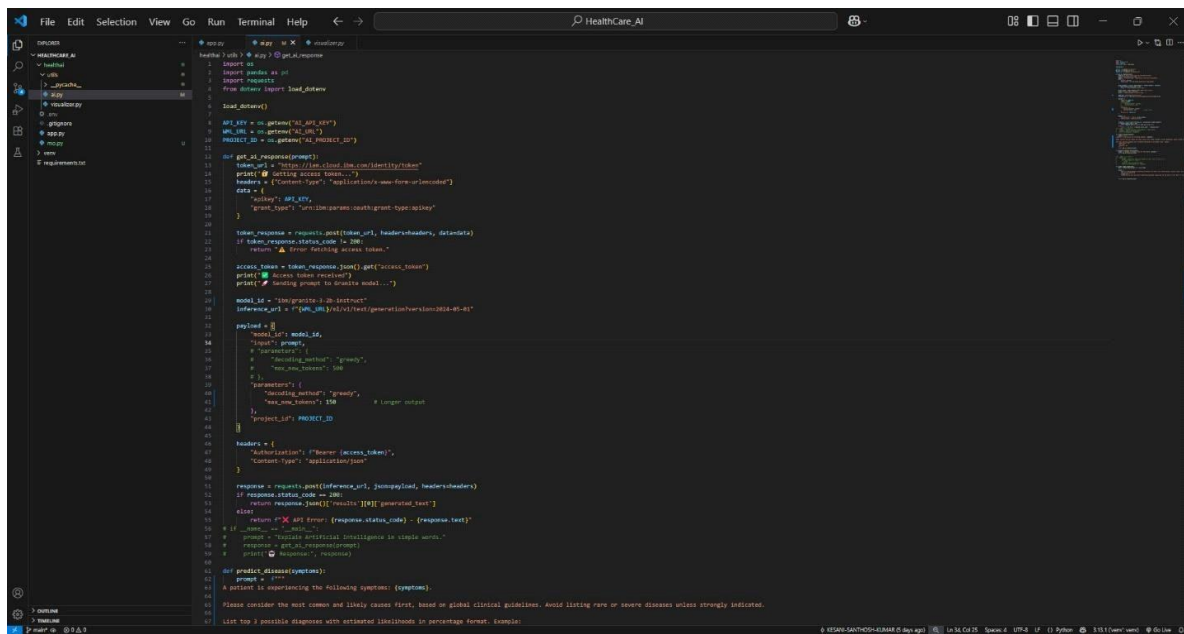
- **CONCLUSION**

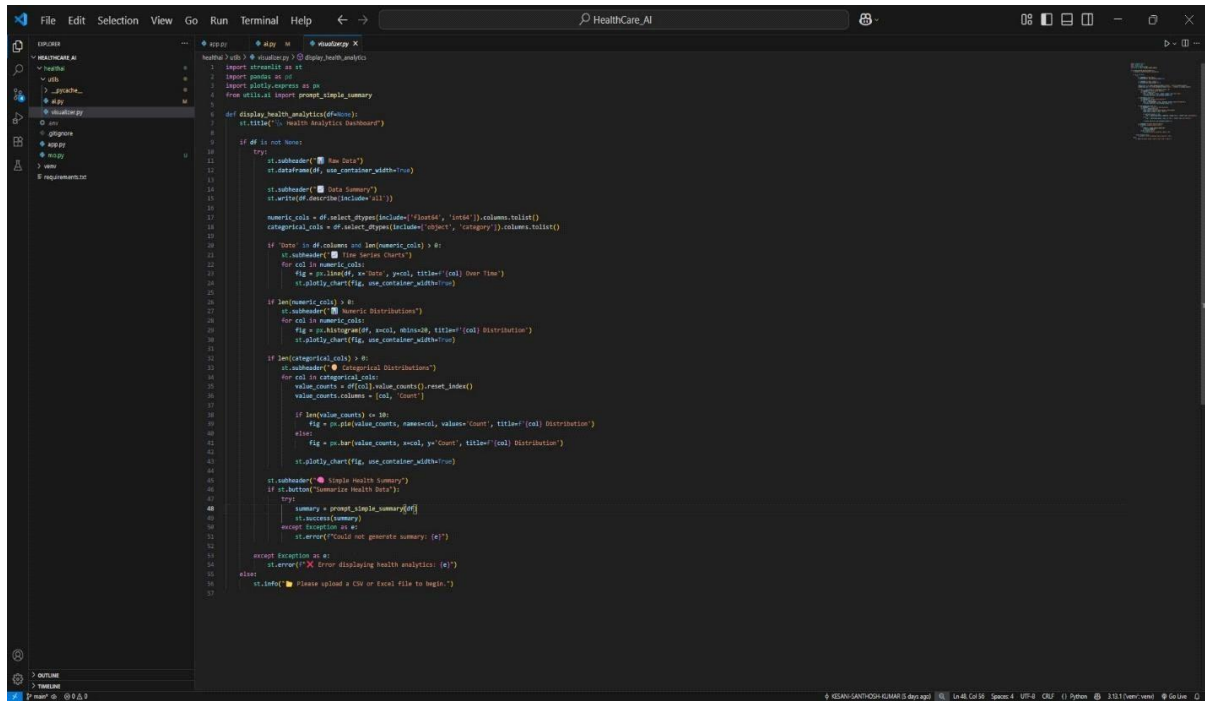
The HEALTHAI project demonstrates how generative AI, specifically IBM Granite, can be effectively integrated into healthcare applications. By providing intelligent responses to user queries, disease prediction, treatment suggestions, and health analytics, this system can assist users in managing their health proactively. Though it is not a substitute for professional medical advice, it acts as a supportive tool that can bridge the gap between users and healthcare information in real time.

- **FUTURE SCOPE**

-  Integration with Real Medical Records: In future, the system can be connected to Electronic Health Records (EHR) for more personalized responses.
-  Mobile App Development: A dedicated mobile version can improve accessibility on smartphones.
-  More Advanced AI Models: Upgrading to future IBM Granite versions or fine-tuning with medical datasets for better accuracy.
-  Multi-Language Support: Expanding to regional languages can make it more inclusive.
-  Enhanced Security Measures: Implementing data encryption and secure login to protect user privacy.
-   Doctor Integration: Providing live chat features with real doctors or teleconsultation options.

Source Code(if any)





```
HealthCare_AI
File Edit Selection View Go Run Terminal Help
health.py
1 import streamlit as st
2 import pandas as pd
3 import plotly.express as px
4 from util.ai import prompt_simple_summary
5
6 def display_health_analytics(df):
7     st.title("Health Analytics Dashboard")
8
9     if df is not None:
10         try:
11             st.subheader("Raw Data")
12             st.dataframe(df, use_container_width=True)
13
14             st.subheader("Data Summary")
15             st.write(df.describe(include='all'))
16
17             numeric_cols = df.select_dtypes(include=['float64', 'int64']).columns.tolist()
18             categorical_cols = df.select_dtypes(include=['object', 'category']).columns.tolist()
19
20             if len(numeric_cols) > 0:
21                 st.subheader("Line Series Charts")
22                 for col in numeric_cols:
23                     fig = px.line(df, x='date', y=col, title=f'{col} Over Time')
24                     st.plotly_chart(fig, use_container_width=True)
25
26             if len(numeric_cols) > 0:
27                 st.subheader("Numeric Distributions")
28                 for col in numeric_cols:
29                     fig = px.histogram(df, x=col, nbins=20, title=f'{col} Distribution')
30                     st.plotly_chart(fig, use_container_width=True)
31
32             if len(categorical_cols) > 0:
33                 st.subheader("Categorical Distributions")
34                 for col in categorical_cols:
35                     value_counts = df[col].value_counts().reset_index()
36                     value_counts.columns = [col, 'count']
37
38                     if len(value_counts) > 10:
39                         fig = px.bar(value_counts, x=col, y='count', title=f'{col} Distribution')
40                     else:
41                         fig = px.bar(value_counts, x=col, y='count', title=f'{col} Distribution')
42
43                     st.plotly_chart(fig, use_container_width=True)
44
45             st.subheader("Simple Health Summary")
46             if st.button("Summarize Health Data"):
47                 try:
48                     summary = prompt_simple_summary(df)
49                     st.success(summary)
50                 except Exception as e:
51                     st.error(f"Could not generate summary: {e}")
52
53         except Exception as e:
54             st.error(f"Error displaying health analytics: {e}")
55         else:
56             st.info("Please upload a CSV or Excel file to begin.")
57     else:
58         st.info("No data provided. Please upload a CSV or Excel file to begin.")
```

Dataset Link GitHub & Project Demo Link

Both the dataset and the project demo video are uploaded to the GitHub repository and can be accessed via the following link:

https://github.com/KESANI-SANTHOSH-KUMAR/HealthCare_AI