SmartInternz Project Tasks: HealthAI - Intelligent Healthcare Assistant

# Project Title:

HealthAI: Intelligent Healthcare Assistant Using IBM Granite

# Team Members:

KA, KD, KN, KS

# Mentor:

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## Pre-Requisites

Understand the basics of:  
- Generative AI and NLP  
- IBM Watsonx and Hugging Face models  
- Streamlit for UI development  
- Python requests and APIs  
- .env file management and security

## Milestone 1: Model Selection and Architecture

- Selected Hugging Face model: google/flan-t5-large  
- Replaced IBM Granite due to access/API issues  
- Defined system architecture:  
 • Streamlit UI  
 • Hugging Face API backend  
 • dotenv for token security

## Milestone 2: Core Functionalities Development

- Implemented core functionality for Patient Chat:  
 • User can input health-related questions  
 • Backend queries Hugging Face model  
 • Response is shown in a conversational UI

## app.py Development

- Created `app.py` with Streamlit for UI  
- Designed layout for Patient Chat  
- Integrated backend call to `huggingface\_api.py`  
- Clean and user-friendly interface

## Design and Develop the User Interface

- Used Streamlit components for layout  
- Added headings, input boxes, and output section  
- Styled for clarity and usability  
- Tested input and output flows

## Deployment

- Tested locally with Streamlit run  
- Packaged project into zip for submission  
- Ready to deploy on platforms like Hugging Face Spaces or Replit