**Project Documentation**

**Introduction**

**Project title:** Health AI: Intelligent Healthcare Assistant

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**Project overview**

**Cura Synth – AI Health Assistant**

**An AI-powered healthcare helper using Gradio and IBM Granite.**  
**For informational purposes only – not a real medical tool.**

**Features**

* 💬 **Health Chat** – Ask general health questions
* 🦠 **Disease Prediction** – Get possible conditions from symptoms
* 💊 **Treatment Plan** – Basic treatment suggestions based on inputs
* 📊 **Health Analytics** – Analyze vital signs and get advice

**To Run**

1. **Install Python** (3.8 or higher)
2. **Install dependencies:**

pip install gradio torch transformers

1. **Run the app:**

python app.py

**How It Works**

* Uses the **IBM Granite 3.2B Instruct** model from Hugging Face.
* Sends your input (symptoms, condition, etc.) as a **prompt** to the AI.
* The AI generates a **text response** with suggestions or insights.

**Tabs in the App**

| **Tab** | **What You Do** | **What You Get** |
| --- | --- | --- |
| **Patient Chat** | Ask any health question | AI gives an informative answer |
| **Disease Prediction** | Enter symptoms | AI suggests possible conditions |
| **Treatment Plans** | Enter age, gender, condition | AI gives treatment suggestions |
| **Health Analytics** | Input vitals (HR, BP, etc.) | AI provides health insights |

**⚠ Disclaimer**

This app does **not** provide real medical advice.  
Always consult a **licensed healthcare professional** for diagnosis and treatment.

**✅ Example Use**

* "What are the symptoms of flu?"
* "I have fever and cough. What could it be?"
* "Treatment plan for diabetes, male, 45 years old"