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import datetime
from transformers import AutoTokenizer, AutoModelForCausalLM
import torch

# Load IBM Granite model
model_id = "ibm-granite/granite-3.3-2b-instruct"
tokenizer = AutoTokenizer.from_pretrained(model_id)
model = AutoModelForCausalLM.from_pretrained(model_id)

# Function to ask IBM Granite model
def ask_granite(prompt):
    inputs = tokenizer(prompt, return_tensors="pt")
    outputs = model.generate(**inputs, max_new_tokens=200, temperature=0.7)
    response = tokenizer.decode(outputs[0], skip_special_tokens=True)
    return response.strip()

# Main health assistant function
def health_assistant():
    print("\n🤖 Hello! I'm your Health AI Assistant (powered by IBM Granite).")
    name = input("What's your name? ")
    print(f"Hi {name}, please describe your symptoms (comma-separated):")

    symptoms_input = input("Symptoms: ")
    symptoms = [s.strip() for s in symptoms_input.split(',')]
    symptom_text = ", ".join(symptoms)

    print("\n🔍 Analyzing symptoms with AI...")
    prompt = f"The user reports the following symptoms: {symptom_text}. What are the most likely medical conditions or causes?"
    granite_response = ask_granite(prompt)

    print("\n📋 AI Suggested Conditions:")
    print(granite_response)

    print("\n⚠️ Note: This is not a medical diagnosis. Please consult a healthcare professional.")
    print(f"🕒 Timestamp: {datetime.datetime.now().strftime('%Y-%m-%d %H:%M:%S')}")

# Run the assistant
if __name__ == "__main__":
    health_assistant()

```

Output:

```
👋 Hello! I'm your Health AI Assistant (powered by IBM Granite).  
What's your name? Ashok  
Hi Ashok , please describe your symptoms (comma-separated):  
Symptoms: Covid -19  
The following generation flags are not valid and may be ignored: ['temperature']. Set 'TRAI  
  
🔍 Analyzing symptoms with AI...  
  
📋 AI Suggested Conditions:  
The user reports the following symptoms: Covid -19. What are the most likely medical condi  
Based on the symptoms reported, the most likely medical condition for this user is a diagn  
  
1. Fever or chills  
2. Cough  
3. Shortness of breath or difficulty breathing  
4. Fatigue  
5. Muscle or body aches  
6. Headache  
7. New loss of taste or smell  
8. Sore throat  
9. Congestion or runny nose  
10. Nausea or vomiting  
11. Diarrhea  
  
It is essential to follow the guidelines provided by local health authorities and the World  
⚠️ Note: This is not a medical diagnosis. Please consult a healthcare professional.  
🕒 Timestamp: 2025-06-26 09:33:33
```