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Chatbot code:
import random
import ison
import datetime
RESPONSES_FILE = "responses.json" # Load responses from a JSON file
def load_responses():
 """ Load responses.json without this file program only reply in default responses which doesn't
provide info"""
 try:
   with open(RESPONSES_FILE, "r") as file:
     return json.load(file)
 except FileNotFoundError:
   print(f"Error: {RESPONSES_FILE} not found.")
   return {"default": ["I'm not sure how to respond to that."]}
def save_chat_log(log, user_name, agent_name):
 """ Save conversation between user and agent in separate .txt file with time"""
 log_filename = f"chat_log_{datetime.datetime.now().strftime('%Y_%m_%d_%H_%M_%S')}.txt"
 with open(log_filename, "w") as file:
   for entry in log:
     file.write(f"{user_name} (User): {entry['user']}\n{agent_name} (Agent): {entry['agent']}\n\n")
def get_user_name():
 """ Ask name to the user if name doen't given then show error """
 while True:
   user_name = input("Welcome to Poppleton University Chat! What's your name?").strip()
   if user_name:
     return user_name.capitalize() # Capitalize the first letter of the user_name if user type
apeal it convert to Apeal
   print("Please enter a name to continue.")
def toggle_listening_mode(current_mode):
 """ For listening mode user don't need reply from the program """
 new_mode = not current_mode
 mode_status = "ON" if new_mode else "OFF"
 print(f"Listening mode is now {mode_status}.")
 return new_mode
def handle_blank_input(blank_count):
 """ auto disconnect if user give more than 3 empty reply """
 blank_count += 1
 if blank_count >= 3:
   print("Oops! The agent has disconnected. Please try again later.")
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return blank count, True
 return blank_count, False
def get_agent_response(user_input, responses, user_name, agent_name):
 """ Reply from agent and in responses add user name and agent name in reply """
 lower_input = user_input.lower()
 for keyword, replies in responses.items():
   if keyword in lower_input:
     return random.choice(replies).replace("{name}", user_name).replace("{agent_name}",
agent name) # name in responses
 return random.choice(responses["default"]).replace("{name}", user_name) # if keywords
doesn't found than reply from default
def chatbot():
 """ This part of code for main code """
 responses = load_responses()
 agent_names = ["Steve Smith", "Rohit Sharma", "Travis Head", "Virat Kohli", "MS Dhoni"]
 random_disconnect_chance = 0.1
 user_name = get_user_name()
 agent_name = random.choice(agent_names)
 print(f"Hello, {user_name}! My name is {agent_name}. How can I assist you today?")
 print("You can type 'listening mode' to enter a mode where I will not respond to your inputs.")
 chat_log = []
 blank_input_count = 0
 listening_mode = False
 while True:
   user_input = input(f"{user_name}: ").strip()
   if user_input.lower() in ["bye", "quit", "exit"]:
     print("Thank you for chatting with us! Have a great day!")
     break
   if user_input.lower() == "listening mode":
     listening_mode = toggle_listening_mode(listening_mode)
     continue
   if listening_mode:
     print("Agent is listening...")
     chat_log.append({"user": user_input, "agent": "Agent is listening..."})
     continue
   if not user input:
     blank input count, should disconnect = handle blank input(blank input count)
     if should_disconnect:
       break
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else:
    blank_input_count = 0

if random.random() < random_disconnect_chance:
    print("Oops! The agent has disconnected. Please try again later.")
    break

response = get_agent_response(user_input, responses, user_name, agent_name)
    print(f"Agent ({agent_name}): {response}")
    chat_log.append({"user": user_input, "agent": response}))

save_chat_log(chat_log, user_name, agent_name)

if __name__ == "__main__":
    chatbot()</pre>
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responses.json:
{
  "hello":[
    "Hi there, {name}! How can I assist you today?",
    "Hello, {name}! How's it going?",
    "Greetings, {name}! What can I do for you today?"
 ],
  "course": [
    "We offer many courses, {name}. Can you specify your area of interest?",
    "{name}, are you looking for undergraduate or postgraduate courses?",
    "Our university has courses ranging from arts to sciences, {name}. Need help deciding?"
  "undergraduate": [
   "Poppleton University offers a variety of undergraduate programs, including BSc Computing,
Business Management, and Engineering.",
   "Explore all undergraduate courses at Poppleton University on our official website."
 1,
  "postgraduate": [
   "At Poppleton University, we offer postgraduate programs like MSc Computing, MBA, and Data
Science.",
   "Looking to advance your career, {name}? Our postgraduate programs are designed for future
leaders.",
   "Visit Poppleton University's website to explore all our postgraduate courses."
 ],
  "admissions": [
    "Admissions office hours are 10 AM to 4 PM.",
    "You can contact admissions at admissions@poppleton.ac.uk, {name}.",
    "Admissions are located in the main administration building."
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"fees": [
  "The tuition fee details are available on the university website.",
  "Fee payments can be made online or at the finance office, {name}.",
  "Late fee submissions will incur a penalty of 5%."
],
"fee structure": [
  "For graduate courses, the fee is around 1 lakh 70 thousands per semester, {name}.",
  "You can find a detailed breakdown of the fee structure on the university website, {name}."
],
"scholarships": [
  "Scholarship applications are open from January to March.",
  "You can apply for need-based and merit-based scholarships, {name}.",
  "Visit the scholarships office for assistance in applying."
1,
"library": [
  "The library opens at 9 AM every day.",
  "Feel free to visit the library for quiet study spaces, {name}.",
  "You can borrow books from the library."
],
"sports": [
  "The sports complex is open from 6 AM to 10 PM.",
  "You can join the football team by registering at the ECA, {name}.",
  "Basketball courts are available."
],
"events": [
  "Check the university website for upcoming events.",
  "There's a music concert this Friday at the auditorium, {name}.",
  "The science fair is happening next month."
"housing":[
  "On-campus housing applications open in March.",
  "Visit the housing office for more details, {name}.",
  "Housing queries can be emailed to poppleton2025.ac.uk."
],
"exams": [
  "Exam schedules are posted on the student portal.",
  "Contact your department for exam-related gueries, {name}.",
  "Make sure to bring your student ID to exams."
],
"transport": [
  "The campus shuttle runs every 20 minutes.",
  "You can find the bus schedule on the university website, {name}.",
  "Parking permits are available from the transport office."
],
"clubs": [
  "The debate club meets every Wednesday at 5 PM.",
  "You can join the chess club by signing up online, {name}.",
  "The photography club is hosting a workshop this weekend."
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"financial_aid": [
  "Financial aid applications can be submitted online.",
  "Visit the financial aid office for consultation, {name}.",
  "Financial aid decisions are communicated within 4 weeks."
],
"campus": [
  "The campus map is available on the university website.",
  "Feel free to explore the botanical garden near the library, {name}.",
  "Campus tours are conducted every Friday at 2 PM."
],
"support": [
  "The IT support desk is available 24/7.",
  "Counseling services are located in the health center, {name}.",
  "Academic advisors are available by appointment."
],
"joke": [
  "Why don't scientists trust atoms? Because they make up everything!",
  "Why was the math book sad? It had too many problems.",
  "What do you call fake spaghetti? An impasta!"
],
"cricket": [
  "Fun fact: {agent_name} once scored a century in T20 format!",
  "Did you know? Cricket is played in over 100 countries worldwide.",
  "{agent_name} thinks cricket is the most exciting sport ever!"
],
"coffee": [
  "The coffee bar is open from 8 AM to 8 PM.",
  "You can grab coffee at the main building cafeteria, {name}.",
  "Coffee is available near the library entrance."
],
"default": [
  "I'm sorry, {name}. I didn't quite understand that. Can you rephrase?",
  "{name}, could you provide more details? I'd be happy to help.",
  "Apologies, {name}. I didn't catch that. Can you clarify?",
  "Let me check on that for you, {name}."
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Welcome to Poppleton University Chat! What's your name? Apeal Hello, Apeal! My name is Virat Kohli. How can I assist you today? You can type 'listening mode' to enter a mode where I will not respond to your inputs. Apeal: listening mode Listening mode is now ON. Apeal: Now user can write anything but this program doesnot going to reply Agent is listening mode Listening mode is now OFF. Apeal: Now this mode is off Agent (Virat Kohli): I'm sorry, Apeal. I didn't quite understand that. Can you rephrase? Welcome to Poppleton University Chat! What's your name? apeal Hello, Apeal! My name is Virat Kohli. How can I assist you today? You can type 'listening mode' to enter a mode where I will not respond to your inputs. Apeal: About fees Agent (Virat Kohli): Fee payments can be made online or at the finance office, Apeal. Apeal: Can we get to drink coffee there? Agent (Virat Kohli): Coffee is available near the library entrance. Apeal: Amissions Agent (Virat Kohli): Admissions are located in the main administration building. Apeal: exit Thank you for chatting with us! Have a great day!