OBJECT ORIENTED PROGRAMMING – QUIZ #4

(2.5 points)

Aleksandre Maghlakelidze
Student at Ilia State University
alex.maglakelidze@gmail.com, aleksandre.maghlakelidze.1@iliauni.edu.ge

Description

1. Create and describe the JSON format for POST requests for the remote service of the chatbot.
   You can take any format that will be compatible for the assignment condition. (1.5 points)
2. Provide an example of the chat conversation and corresponding JSON representations for each of the POST requests of the conversation. (1 point)

JSON Format for POST Requests:

```json
{
 "user_id": "string",
 "message_send_time": "string",
 "message": "string",
 "conversation_history": [
  {
   "message": "string",
   "timestamp": "string",
   "user_id": "string"
  }
 ]
}
```

Example Chat Conversation:

1. User: Hello
2. Chatbot: Good day
3. User: What time is it?
4. Chatbot: 9:00 AM
5. User: I should go!
6. Chatbot: Wait for me!

JSON Representations:

First message by user and response by chatbot:

```json
{
  "user_id": "user_123",
  "timestamp": "2024-06-17T10:00:00Z",
  "message": "Hello",
  "conversation_history": []
}

{
  "user_id": "chatbot_001",
  "timestamp": "2024-06-17T10:00:05Z",
  "message": "Good day",
  "conversation_history": [
    {"message": "Hello", "timestamp": "2024-06-17T10:00:00Z", "user_id": "user_123"}
  ]
}
```

Second message by user and response by chatbot:

```json
{
  "user_id": "user_123",
  "timestamp": "2024-06-17T10:01:00Z",
  "message": "What time is it?",
  "conversation_history": [
    {"message": "Hello", "timestamp": "2024-06-17T10:00:00Z", "user_id": "user_123"},
    {"message": "Good day", "timestamp": "2024-06-17T10:00:05Z", "user_id": "chatbot_001"}
  ]
}

{
  "user_id": "chatbot_001",
  "timestamp": "2024-06-17T10:01:05Z",
  "message": "9:00 AM",
  "conversation_history": [
    {"message": "Hello", "timestamp": "2024-06-17T10:00:00Z", "user_id": "user_123"},
    {"message": "Good day", "timestamp": "2024-06-17T10:00:05Z", "user_id":
"chatbot_001"},
```

    {"message": "What time is it?", "timestamp": "2024-06-17T10:01:00Z", "user_id": "user_123"}
 ]
}

Third and final message by user and response by chatbot:

{
 "user_id": "user_123",
 "timestamp": "2024-06-17T10:02:00Z",
 "message": "I should go!",
 "conversation_history": [
   {"message": "Hello", "timestamp": "2024-06-17T10:00:00Z", "user_id": "user_123"},
   {"message": "Good day", "timestamp": "2024-06-17T10:00:05Z", "user_id": "chatbot_001"},
   {"message": "What time is it?", "timestamp": "2024-06-17T10:01:00Z", "user_id": "user_123"},
   {"message": "9:00 AM", "timestamp": "2024-06-17T10:01:05Z", "user_id": "chatbot_001"}
 ]
}

{
 "user_id": "chatbot_001",
 "timestamp": "2024-06-17T10:02:05Z",
 "message": "Wait for me!",
 "conversation_history": [
   {"message": "Hello", "timestamp": "2024-06-17T10:00:00Z", "user_id": "user_123"},
   {"message": "Good day", "timestamp": "2024-06-17T10:00:05Z", "user_id": "chatbot_001"},
   {"message": "What time is it?", "timestamp": "2024-06-17T10:01:00Z", "user_id": "user_123"},
   {"message": "9:00 AM", "timestamp": "2024-06-17T10:01:05Z", "user_id": "chatbot_001"},
   {"message": "I should go!", "timestamp": "2024-06-17T10:02:00Z", "user_id": "user_123"}
 ]
}