

# Chatbot Front-End Console Application

## Task 1: JSON Format for POST Requests

The JSON format for POST requests to the remote chatbot service should include the following fields:

- `userMessage`: The message sent by the user.
- `chatHistory`: An array containing the entire chat history including both user messages and chatbot responses.

### JSON Schema for POST Request:

```
{
  "userMessage": "string",
  "chatHistory": [
    {
      "sender": "string",
      "message": "string"
    }
  ]
}
```

- `userMessage` is a string representing the latest message from the user.
- `chatHistory` is an array of objects, where each object contains:
  - `sender`: A string indicating who sent the message ("User" or "Chatbot").
  - `message`: A string containing the content of the message.

## Task 2: Example of Chat Conversation and Corresponding JSON Representations

Chat Example:

```
User: Hello
Chatbot: Good day
User: What time is it?
Chatbot: 9:00 AM
User: I should go!
Chatbot: Wait for me!
```

### JSON Representations for Each POST Request:

1. User: Hello

**JSON Request:**

```
{
  "userMessage": "Hello",
  "chatHistory": []
}
```

**Chatbot: Good day**

- This response is generated by the remote service and displayed as:

**Chatbot: Good day**

**User: What time is it?**

**JSON Request:**

```
{
  "userMessage": "What time is it?",
  "chatHistory": [
    {
      "sender": "User",
      "message": "Hello"
    },
    {
      "sender": "Chatbot",
      "message": "Good day"
    }
  ]
}
```

**Chatbot: 9:00 AM**

- This response is generated by the remote service and displayed as:

**Chatbot: 9:00 AM**

**User: I should go!**

**JSON Request:**

```
{
  "userMessage": "I should go!",
  "chatHistory": [
    {
      "sender": "User",
      "message": "Hello"
    },
    {
      "sender": "Chatbot",
      "message": "Good day"
    },
    {
      "sender": "User",
      "message": "What time is it?"
    },
    {
      "sender": "Chatbot",
      "message": "9:00 AM"
    }
  ]
}
```

**Chatbot:** Wait for me!

- This response is generated by the remote service and displayed as:

**Chatbot:** Wait for me!

Each JSON request includes the user's latest message and the complete chat history up to that point, ensuring the remote chatbot service can provide a contextually appropriate response.