

# Chatbot

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## 1. How the Chatbot Works

This chatbot operates by engaging in a conversation with the user, maintaining a record of the last few messages exchanged. When a user sends a message, it stores their input, creates a prompt, and sends it to the LLM (Large Language Model) API to generate a response. The conversation history helps the chatbot provide more context-aware replies, making interactions feel more natural. The chatbot also retains a memory of the previous three exchanges to keep the conversation flowing smoothly.

## 2. What Makes Each Personality Unique

The chatbot has three distinct personalities, each designed for a different interaction style:

1. **Friendly Bot:** This personality is casual and approachable, always ready with a friendly tone. It makes conversations feel comfortable and supportive, perfect for informal chats.
2. **Teacher Bot:** The Teacher Bot is more formal and informative, ideal for explaining topics in detail. It provides educational content with clarity, particularly tailored to the subject it's teaching.
3. **Assistant Bot:** A helpful, service-oriented personality designed to assist the user with a variety of tasks. It's polite, efficient, and always ready to lend a hand with anything the user needs.

## 3. Extra Features

### 3.1. A Third Personality Type:

In addition to the Friendly and Teacher Bots, we've added an Assistant Bot personality. This bot focuses on helping users with tasks and answering queries in a more formal, service-driven way.

### 3.2. A Way to Switch Between Personalities:

Users can easily switch between the different personalities by typing the special command `/change`. This will reset the conversation and prompt the user to select a new bot personality, offering flexibility in interaction style based on user preference.

### 3.3. Special Commands ("/help"):

Special commands like `/help` provide additional user guidance, displaying available commands and how to interact with the bot. The `/quit` command allows the user to exit the chat, and `/change` allows switching the chatbot personality mid-conversation, giving the user greater control over their interaction experience.