**Chattbot project**

**About ChattBot:**

ChattBot is a java(Swing) libarary that makes it easy to generate automated responses to a user’s input.

ChattBot uses a selection of machine learning algorithms to produce different types of responses. This makes it easy for developers to create chat bots and automate conversations with users.

For more details about the ideas and concepts behind ChattBot see the [process flow diagram](https://chatterbot.readthedocs.io/en/stable/#process-flow-diagram).

An example of typical input would be something like this:

user: Hi

bot: hi, what is your name ?.

user: iam ahmed , and what is your name ?.

bot: my name is Bob , How old are you ?

# How ChattBot Works :

ChattBot is a Java Swing library designed to make it easy to create software that can engage in conversation.

An [untrained instance](https://chatterbot.readthedocs.io/en/stable/#term-untrained-instance) (An untrained instance of the chat bot has an empty database.) of ChattBot starts off with no knowledge of how to communicate.

Each time a user enters a [statement](https://chatterbot.readthedocs.io/en/stable/#term-statement) (A single string of text representing something that can be said.), the library saves the text that they entered and the text that the statement was in response to.

As ChattBot receives more input the number of responses that it can reply and the accuracy of each response in relation to the input statement increase.

The program selects the closest matching [response](https://chatterbot.readthedocs.io/en/stable/#term-response) by searching for the closest matching known statement that matches the input, it then chooses a response from the selection of known responses to that statement and ask the user anothor question.

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