

COSC310 INDIVIDUAL ASSIGNMENT

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[GitHub Repository URL](#)

In this assignment, I have incorporated Twitter API and the Wikipedia API into the chatbot.

API 1: Twitter API

When user asks the chatbot to tell them something interesting, the chatbot will randomly respond with a most up-to-date tweet posted by a famous twitterer. By using *the GET /2/tweets* feature included in the Twitter API, I was able to retrieve a list of recent tweets posted by an author specified by the requested user ID. Then, I parsed the returned tweets and only kept the first one, i.e., the latest tweet from the person. Next, I extract the postdate, the author's name, and tweet content from the string by using *substring()* method. Finally, I reordered these three fields and made the response straightforward and readable.

API 2: Wikipedia API

When user questions about the chatbot's identity, the chatbot will first assure them about its identity as a chatbot, and then respond with a brief definition of the term "chatbot". Moreover, when user is curious about my hobbies (movies, books, sports, and foods), I will respond with my favorites together with a brief introduction extracted from Wikipedia using Wikipedia API by specifying the query term string. This method returns a title, an image URL, and an introduction. I extracted text from the introduction field as a string, parse it and only keep the first two sentences if the text was too long. Finally, I incorporated the text into my chatbot response to make it more substantial and variant.