Project Documentation (7.5 points)

This is a project to create a chatbot for the course COSC310. I have created a new project rather than continuing the teamwork after getting permission from the professor. It was stated that the Grade of the assignment would solely depend on the new features that should have been added to the project which are done in this new one.

I have coded the project in Python which is a modern object-oriented language. My project uses Waifu API for the chatbot. The conversation is taking place between a student and the teacher in which the AI can be the teacher or the student depending upon the state of the conversation.

The file main.py is the actual code that executes the chatbot.

To make the API work you need to install lxml, requests and bs4 in terminal

**API 1 =)** Google Translate (translate parts of the conversation into another language)

Upon execution of the code, our chatbot gives an option to choose a language or select auto-detection by using google translate API. We are using a translate object to translate the message, we are storing the translated message in a variable and then displaying it. In addition to that there is an option for not only sending but also receiving a text in another language.

Text

Description automatically generated

**API 2 =)** Wikipedia (extract knowledge from definitions for your own conversation use )

The API for Wikipedia search allows the user to search for anything and get a response from the AI upon the given topic. To trigger the API the user needs to type in already decided message which is “check wiki for ” . This statement triggers the program to search the Wikipedia. The input is taken and a list of related topics appear and prompts the user for input. After selecting the desired input the program returns the two sentences from Wikipedia (which is usually a general statement about the topic). This method makes use of the requests libraries, which visits the Wikipedia website and makes a manual request and outputting all the results. Then the program makes another HTTP call to the exact URL, then returns the summary as a string.

Text

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