

NCKU AI-BOT(成大相關常見問題的智能聊天機器人)

NCKU AI-BOT (Smart Chatbot for NCKU-Related FAQs)

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開發工具：Visual Studio Code

測試環境：Python

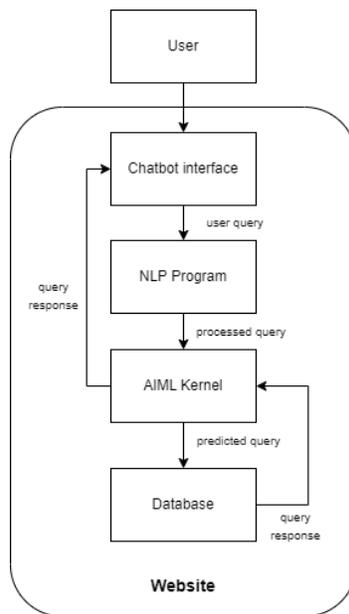
一、簡介

In today's digital age, universities strive to provide efficient and accessible university information to students. This is mostly done on the universities' website. However, due to the various information scattered across numerous pages, it can be challenging for new students to navigate through the website. This problem is no exception to NCKU's own website, especially towards new international students. To address this issue and improve the student's experience, I developed a web-based chatbot API that can be integrated with the university's website to help answer questions regarding to the university, including application process, course selection, available programs and tuition fees, scholarships, accommodation, and other information.

The chatbot is built using NLP and AIML. Using NLP can help the chatbot to comprehend and interpret natural language queries from user. Additionally, AIML is a powerful tool to create predefined patterns and responses, making it ideal to handle frequently asked questions. By combining NLP and AIML, the chatbot aims to deliver a conversational experience while effectively addressing the diverse information needs of students.

When the user sends a query from the chatbot user interface, the NLP program will process the query for a more accurate result and the AIML kernel will provide the response. The chatbot API is built using Flask and JavaScript, and it can be integrated to website by integrating the API code to the website source code.

System Architecture:



二、測試結果

The chatbot API can run on a local website:

