

School Information chatbot

Team H

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Motivation

School Information chatbot for exchange students

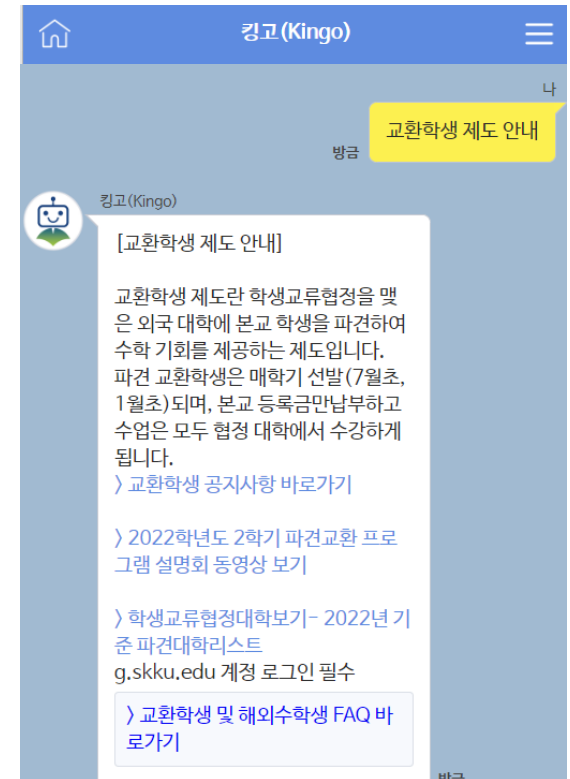
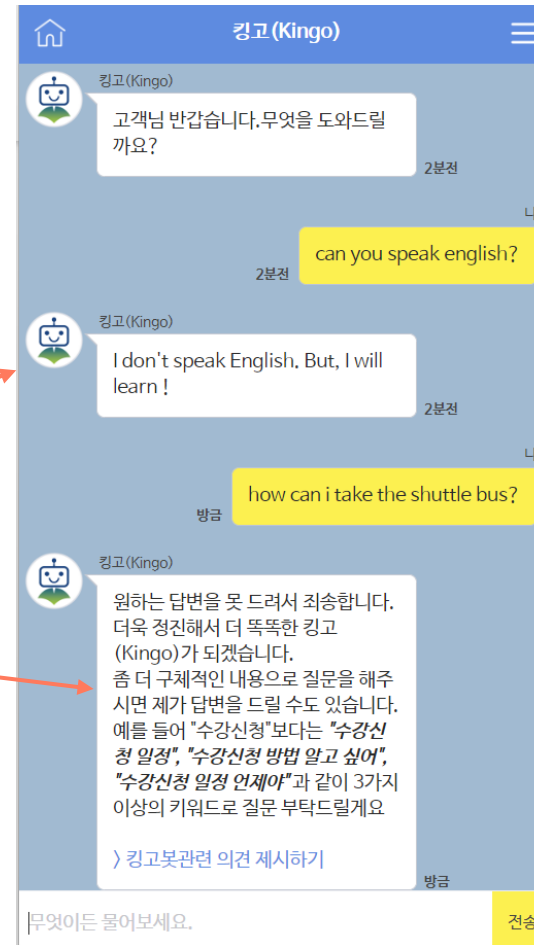
- Exchange students often face a wide range of struggles when adapting to new campus life in new country
- It is hard to find information about school system, course registration, cafeteria, gym, clubs, etc



Prior works

Kingobot

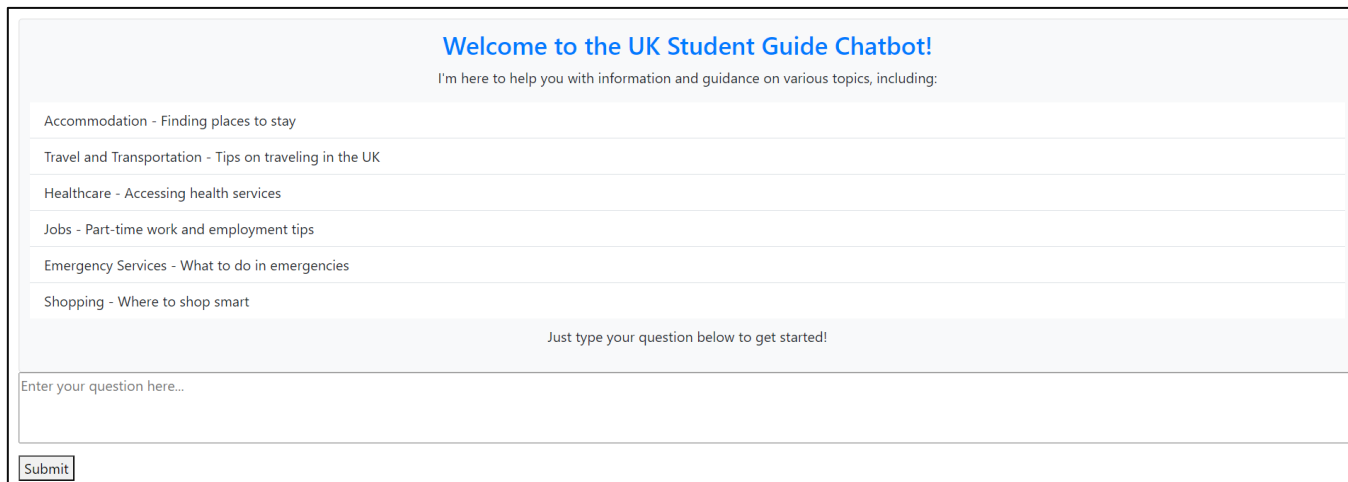
- School information chatbot for SKKU
- Provides convenience to students by giving school information scattered in various places in one place
- Limitation
 - No English, No Multilingual
 - Strict rules on question
 - Little information for exchange student



Prior works

International student Chatbot(for UK student)

- Keyword-Based Responses: Question keyword should be involved in chatbot Intent keywords
 - Variety of questions is reduced
 - Same question with different keywords may not be processed. ex. transportation & shuttle bus
- Wide variety of topic but information is too general



The screenshot shows a web interface for a chatbot titled "Welcome to the UK Student Guide Chatbot!". Below the title, it says "I'm here to help you with information and guidance on various topics, including:". A list of topics is displayed in a light blue box with horizontal lines: Accommodation - Finding places to stay, Travel and Transportation - Tips on traveling in the UK, Healthcare - Accessing health services, Jobs - Part-time work and employment tips, Emergency Services - What to do in emergencies, and Shopping - Where to shop smart. Below this list, it says "Just type your question below to get started!". At the bottom, there is a text input field with the placeholder "Enter your question here..." and a "Submit" button.

Related works

Crawling

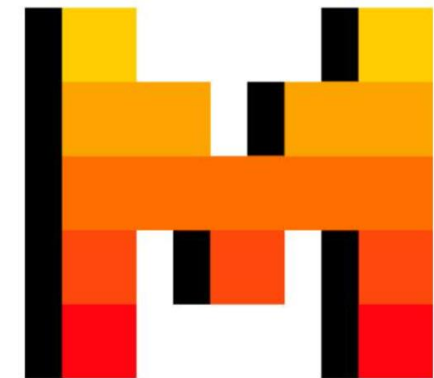
- Automatic web browsing and indexing for easy search and retrieval
 - **Crawler**: Navigating links
 - **URL Frontier**: Managing URL links
 - **Page downloader**: Fetching
 - **Parser**: Parse useful information
 - **Indexing**: Indexing
 - **Storage**: Storing
- Library
 - **requests**: Handles the fetching of web pages.
 - **BeautifulSoup**: Parses and extracts data from HTML.



Related works

Chat-bots

- Transformer based
 - **Llama-7b-chat**: Specialized version of the llama-7b model, fine-tuned specifically for interactive, dialogue-based applications
 - **Alpaca**: Fine-tuned version of Meta's llama-7b model for interactive tasks created by researchers at Stanford
 - **Mistral-7b-instruct**: Fine-tuned version of mistral-7b model for instruction prompts
 - **BlenderBot**: Meta's chatbot that combines dialogue, question-answering, and long-term memory.
- RNN based
 - **DeepProbe**
 - **SuperAgent**
 - **RubyStar**
 - **Milabot**
 - **AliMe**



Thank You

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