Flight Assistant

User Guide

1 End-user Guide

1.1 Requirements

- WeChat App
- Add Chatbot as friends (you will need to add the wechat account of the chatbot)

1.2 Business Scenarios

Request Information	Question prompted to user, if missing	Description	Example
City	Input Departure city in order	Departure cities	Singapore, Beijing
			Singapore
Date	Departure dates	Departure dates	July 1st, July 4th
			01/11/2019, 04/11/2019
Cabin class	cabin class	Type of cabin class	economy
Adult number	How many adults?	Number of adults	3
Children age	If you have children, input their ages	Children's age	2,3
			No
Monitor days	Monitor days?	Number of days the user wants to keep receiving the flight information	3

Here are some sample texts users can use for searching flights:

One way:
I would like to book a flight from singapore to beijing on November 1st for 2 adults.

Return:
I want to book a flight from Dalian to Shanghai on January 3rd and returning on January 5th for 1 adult and 2 children age 2 and 3

Multiple city:
1. Book a flight from Edinburgh to Dalian on December 10th, Dalian to Tokyo on December 15th, Tokyo to Osaka on December 20th
2. Book flights from Singapore to Edinburgh and then to Beijing, on November 1st, November 2nd and November 3rd
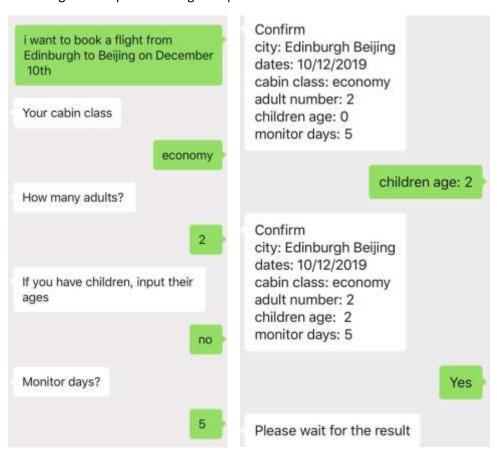
After all the information has been collected, our chatbot will ask the user to check the information is all correct or not. If there is something wrong, users can fix the information in fixed format. Below is the fixed format:
{ Type of information the user wants to change } : {new value} .

For example:
   1. dates:12/11/2019,04/11/2019.city:beijing,singapore.
   2. adult:2
   3. children age:2,3

Following is a sample of the flight request via WeChat.

Here is a sample of the result Excel file that end-users will receive.

	A	B	C	D	E	F	G	H	I	J
1	Deal	Price	Hyperlink							
2		1 SG$1437.0	https://www.skyscanner.com.sg/transport/flights/edi/bjsa/191210/?adults=2&children=1&adultsv2=2&childrenv2=2&infants=0&ca							
3		Flight Leg	Bound	Departure Time	Arrival Time	Duration	Transfer	Transfer Place	Airline	
4		1	EDI - PEK	10/12/2019 06:25 AM	11/12/2019 05:25 AM	15h	1 stop	MAN	FlyBe + Hainan	
5		2 SG$1916.0	https://www.skyscanner.com.sg/transport/flights/edi/bjsa/191210/?adults=2&children=1&adultsv2=2&childrenv2=2&infants=0&ca							
6		Flight Leg	Bound	Departure Time	Arrival Time	Duration	Transfer	Transfer Place	Airline	
7		1	EDI - PEK	10/12/2019 04:35 PM	11/12/2019 04:10 PM	15h 35	1 stop	IST	Turkish Airlines	
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2   Developer Guide

2.1   System Requirements

Supported Web Browser

- Google Chrome

2.2   Installation Guide

2.2.1   Database

Install Mongo DB via https://docs.mongodb.com/manual/administration/install-community/

2.2.2   Conda Environment

To set up the environment

1. git clone https://github.com/gabyngsp/IPA-CA1-FlightsAssistant/
2. cd IPA-CA1-FlightsAssistant/SystemCode
3. conda env create --file environment.yaml
4. conda activate FlightsAssistant
5. conda install -c conda-forge ffmpeg
6. python -m spacy download en_core_web_sm

2.2.3   Start WeChat Bot

1. python thread.py (a QR code may be generated during the first log in)
2. open WeChat app on mobile and log in with chatbot account
3. scan QR code generated

NOTE: Due to the security issue, only limited wechat accounts can access to Web wechat