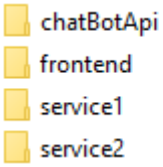
Assignment 3: Building a Chatbot using Microservices as Back-end

Kaiwen Luo, z5100899

For this assignment, I combined two techniques(flow-based, machine learning-based) together to implement dentist reservation chatbot.

Deployment:

1) Directory:



2) For service1(dentists resource):

```
cd service1
docker build -t service1 .
docker run -p 5001:5000 -t service1
```

2) For service2(timeslots resource):

```
cd ..
cd service2
docker build -t service2 .
docker run -p 5002:5000 -t service2
```

3) For chatbot Api

```
cd ..
cd chatBotApi
cd chatbotApi
pip install -r requirements.txt
cd chatbotApi
python3 __init__.py
```

4) For frontend:

```
cd ../../../frontend
open index.html in browser
(CROS has been fixed in backend part)
```

Functionalities:

Note: the button in frontend page only works once, please copy text in button and paste it in input field, then click icon or press Enter to send message.

1) greeting:

Input Hello or similar word(**based on Wit.ai**)

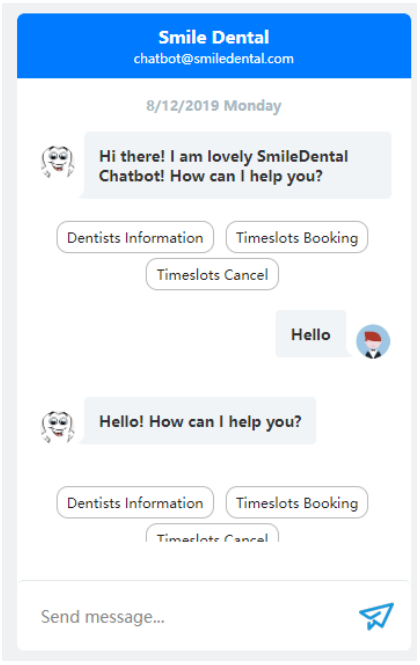
2) list all the available doctors:

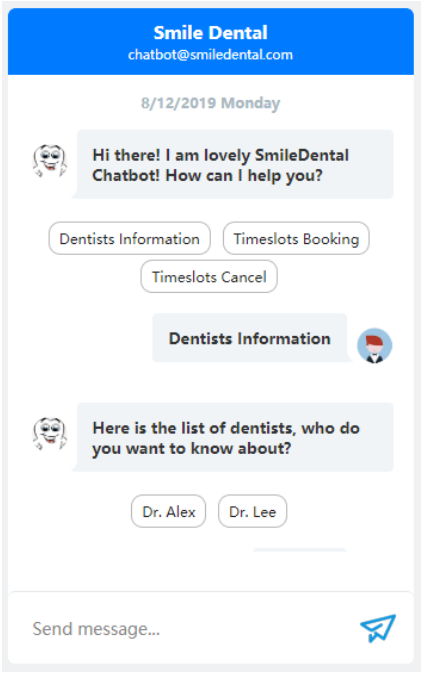
Input Dentists Information

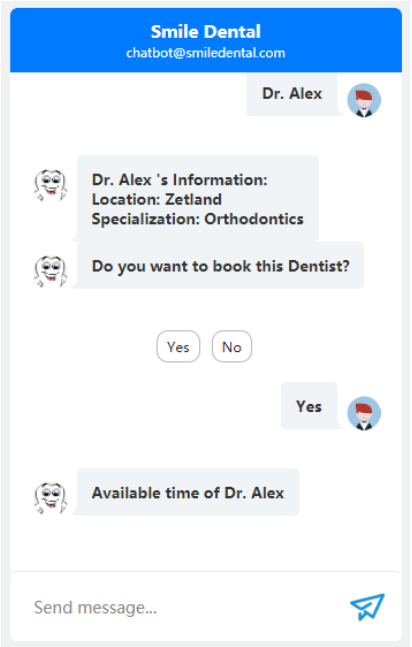
3) information about one doctor

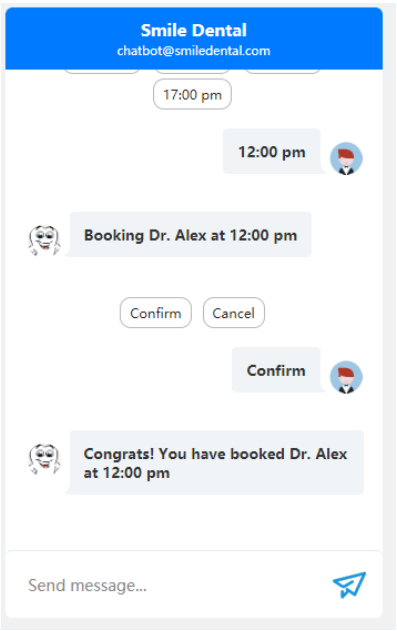
Input Dr. Alex

4) Already reserved（chatbot reply all available time except reserved time）









5） available timeslots

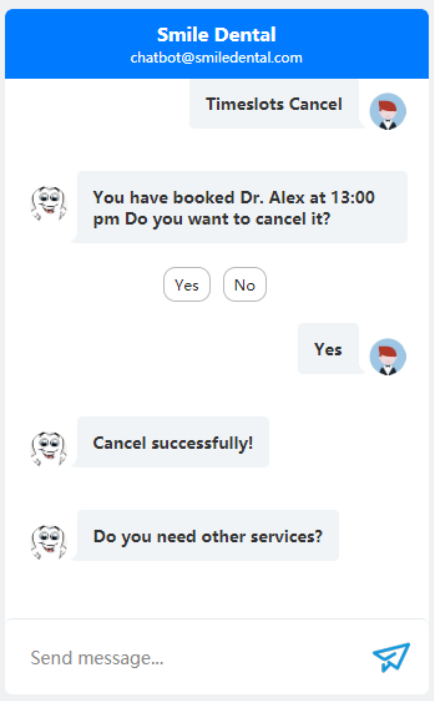
Like previous one

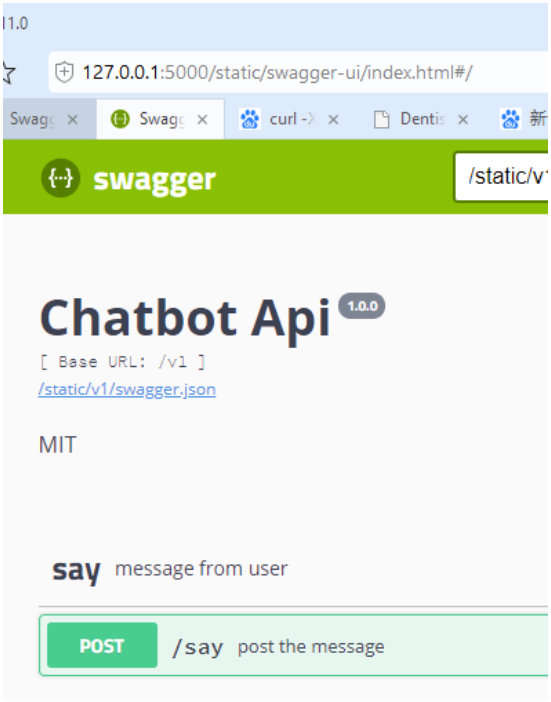
6） summarize booking Information

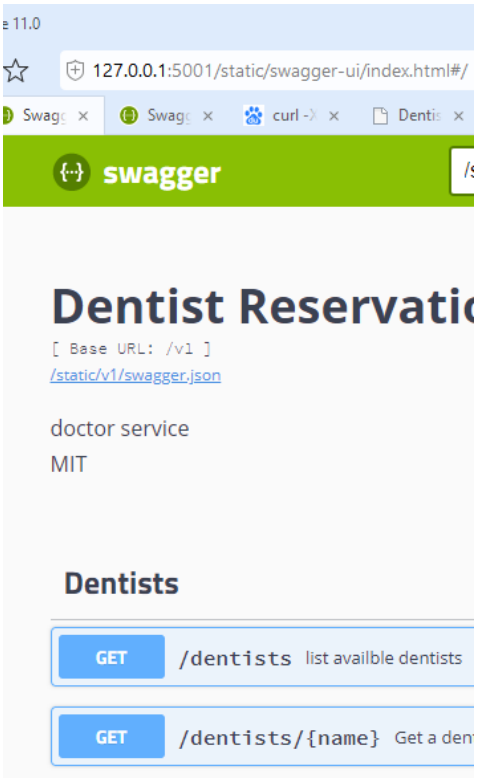
When input 12:00 pm. Chatbot will reply summarized infomation

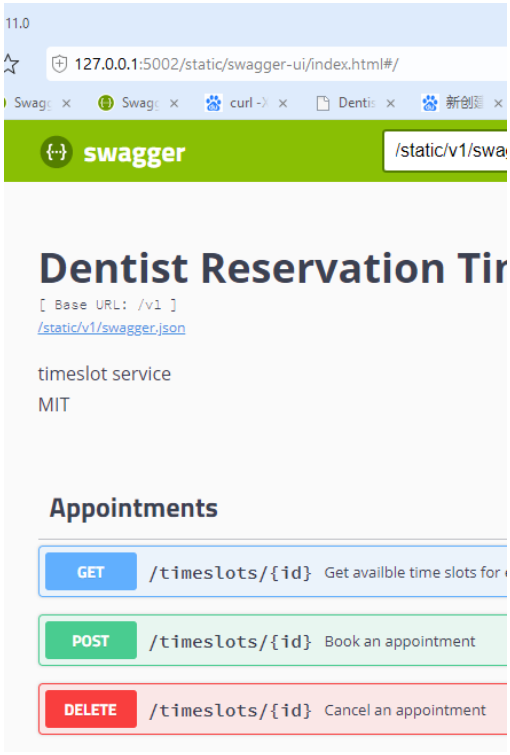
7) Cancel the booking

8) Swagger document









9）Wit.ai screenshot