## Comp9322 Assignment 2

- Building a dental clinic system using a chatbot and dockerized services

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#### Introduction

This report included the usage instruction of the dental chatbot service. The chatbot will help you to book a appointment with your selected dentist for tomorrow

For chatbot implementation, i used ML-based chatbot with wit, the account and password for logging in wit is:

Account: 9322chatbotmeishi@gmail.com

Password: 9322chatbot

**Chatbot frontend template references** 

https://codepen.io/lilgreenland/pen/pyVvqB

For database implementation, i have already initialized a database for each service under their folder

### **Start Chatbot Service**

Open dentalchatbot and run the following command code inside the folder

```
python3 -m pip install -r requirements.txt
python3 chatbot.py
```

You now can chat with bot for basic greeting eg. Hi / How are you

## **Start Dental Service**

Open dentalservice and run the following command code inside the folder

```
# build the dentalservice image
docker build -t dentalservice .
# run dentalservice image
docker run -p 8888:8888 dentalservice
```

You now can ask chatbot information about dentists

## **Start Timeslot Servicce**

Open timeslotservice and run the following command code inside the folder

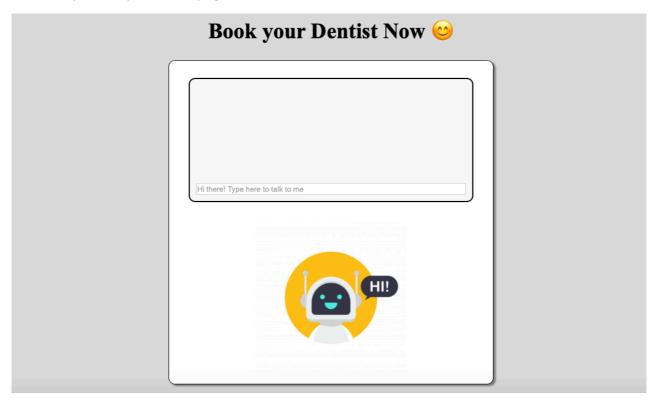
```
# build the timeslotservice image
docker build -t timeslotservice .
# run timeslotservice docker image
docker run -p 5555:5555 timeslotservice
```

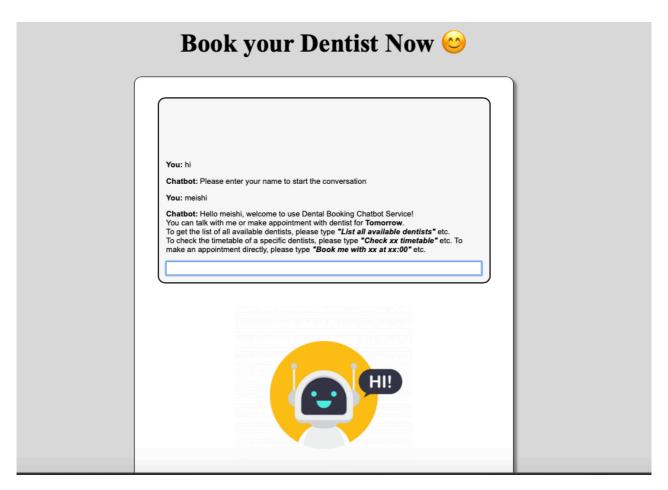
You now can ask chatbot information about dentist timeslot

#### How to use

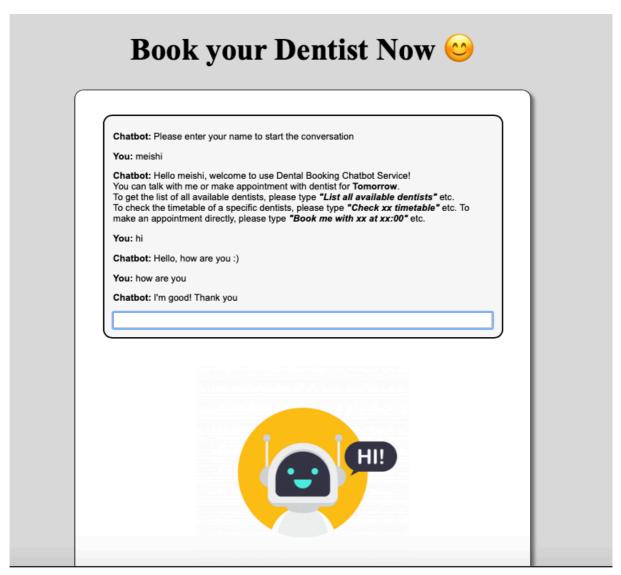
Open your browser and go to "<a href="http://127.0.0.1:8000/">http://127.0.0.1:8000/</a>", you will see a page contains a chatbot. Type anything to start, the chatbot will ask for your name, you can ask the bot 'what is my name' if you forget the username you set.

You will stay in the same session as long as you stay in the same page to test the multi-user function, please open a new page.

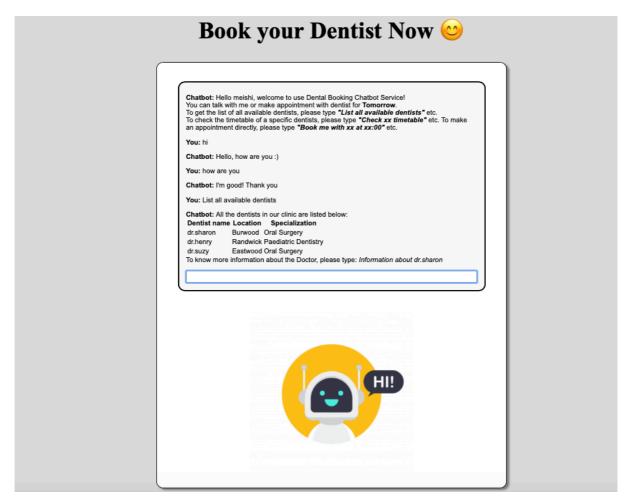




1. Basic greeting

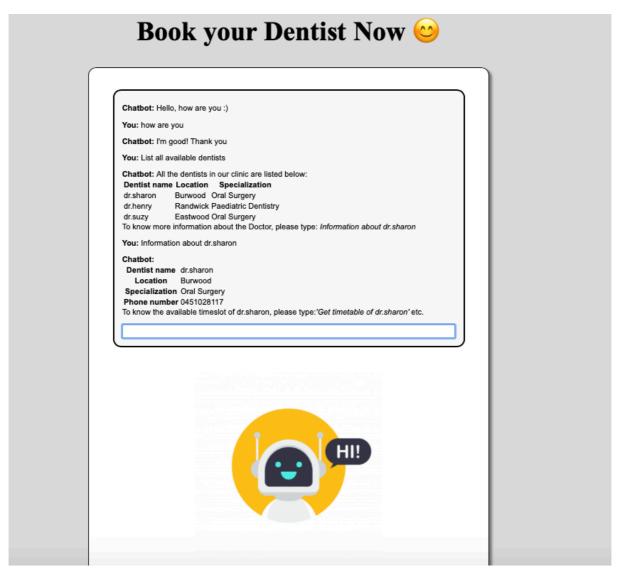


2. Get the list of all available doctor

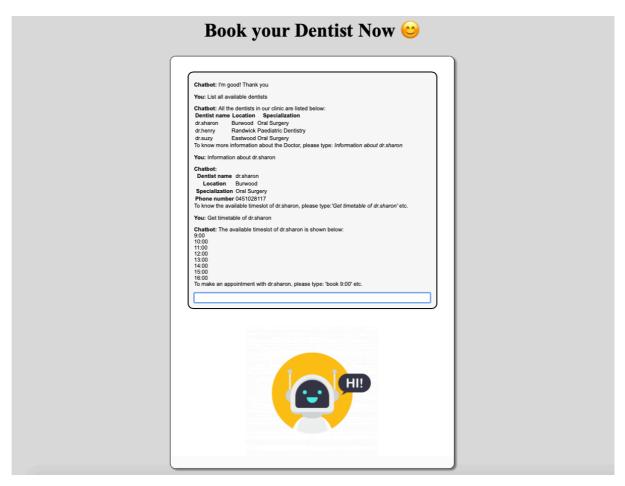


Chatbot will return all the dentists working in the clinic

3. Get dentist information

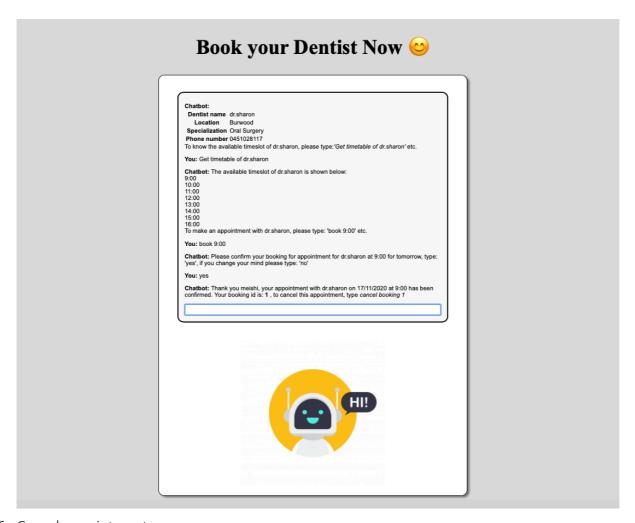


4. Get available time slots for each dentist

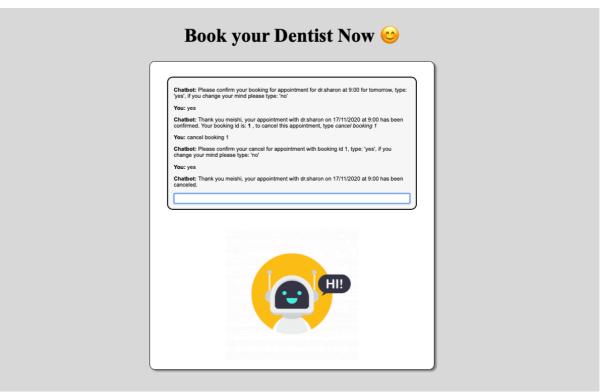


The last available timeslot is 16:00 since the appointment will last for 1 hour.

5. Reserve timeslot and ask for confimation



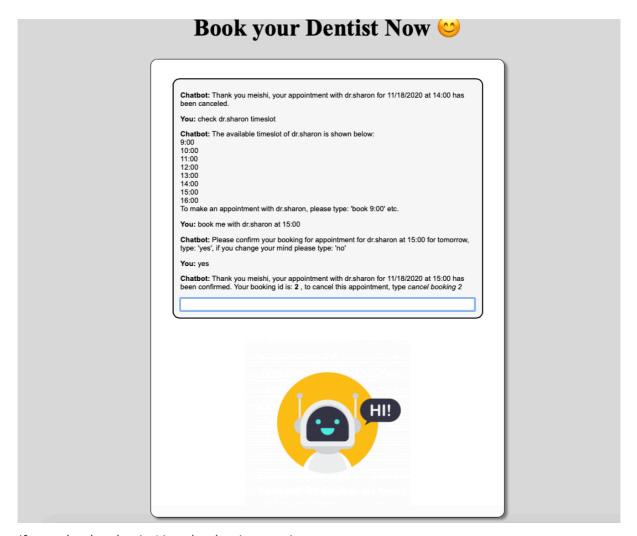
#### 6. Cancel appointment



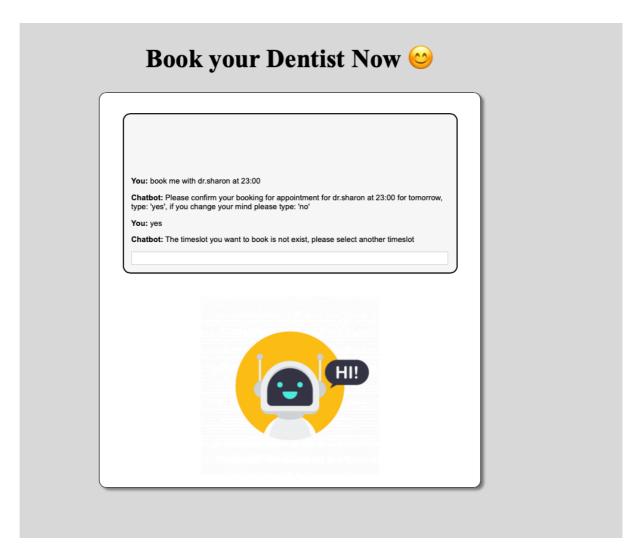
In the scenario, i assume that only the user who made the booking will know the booking id.

#### 7. Other

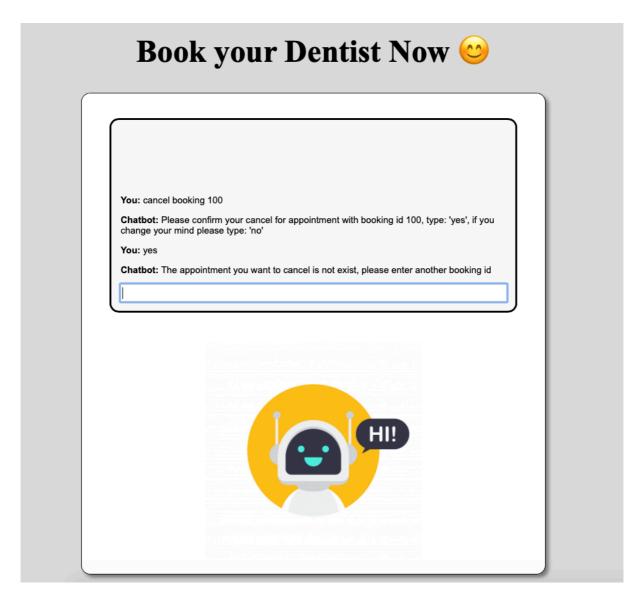
Book with a dentist directly - 'Book me with dr.xx at xx:00'



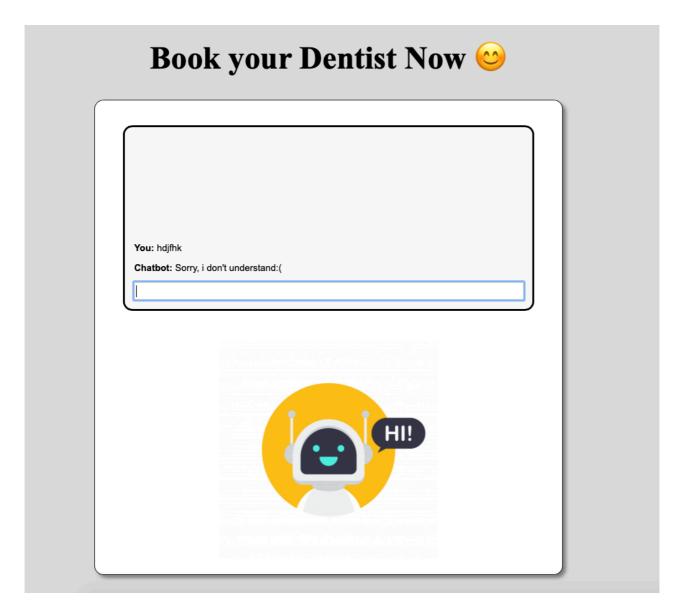
if try to book a dentist/timeslot that is not exist



if try to cancel a booking with a booking id that is not exist

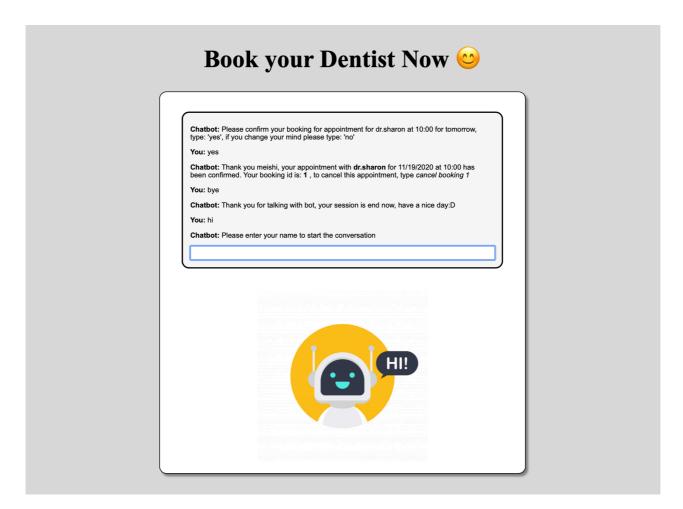


For content that can't be understand by chatbot



# **End Service**

Say anyword include *bye* or *goodbye* will end the current session, after this, you need to tell the bot your name again to use the service again.



#### Thank you!:)