

COMP9322 Assignment3 Deployment Documentation

Revision 1.0
Name: Lingxu Meng
zID: z5147810

Table Of Contents

[Table Of Contents](#)

[Goal of the document](#)

[Section 1 - Setup Docker Microservice Environment](#)

[Dentist Microservice](#)

[Timeslot Microservice](#)

[Section 2 - Facebook settings](#)

[Facebook Account:](#)

[Login Facebook Developer:](#)

[Connect Facebook Page with local server:](#)

[Section 3 - Chat Screenshots](#)

[Default message](#)

[The bot should be able to respond to basic greetings](#)

[The bot can list all the available doctors in the clinic and the client can choose](#)

[The bot asks the client for the preferred doctor and provide information about the doctor](#)

[The bot can provide a list of available timeslots for the selected doctor](#)

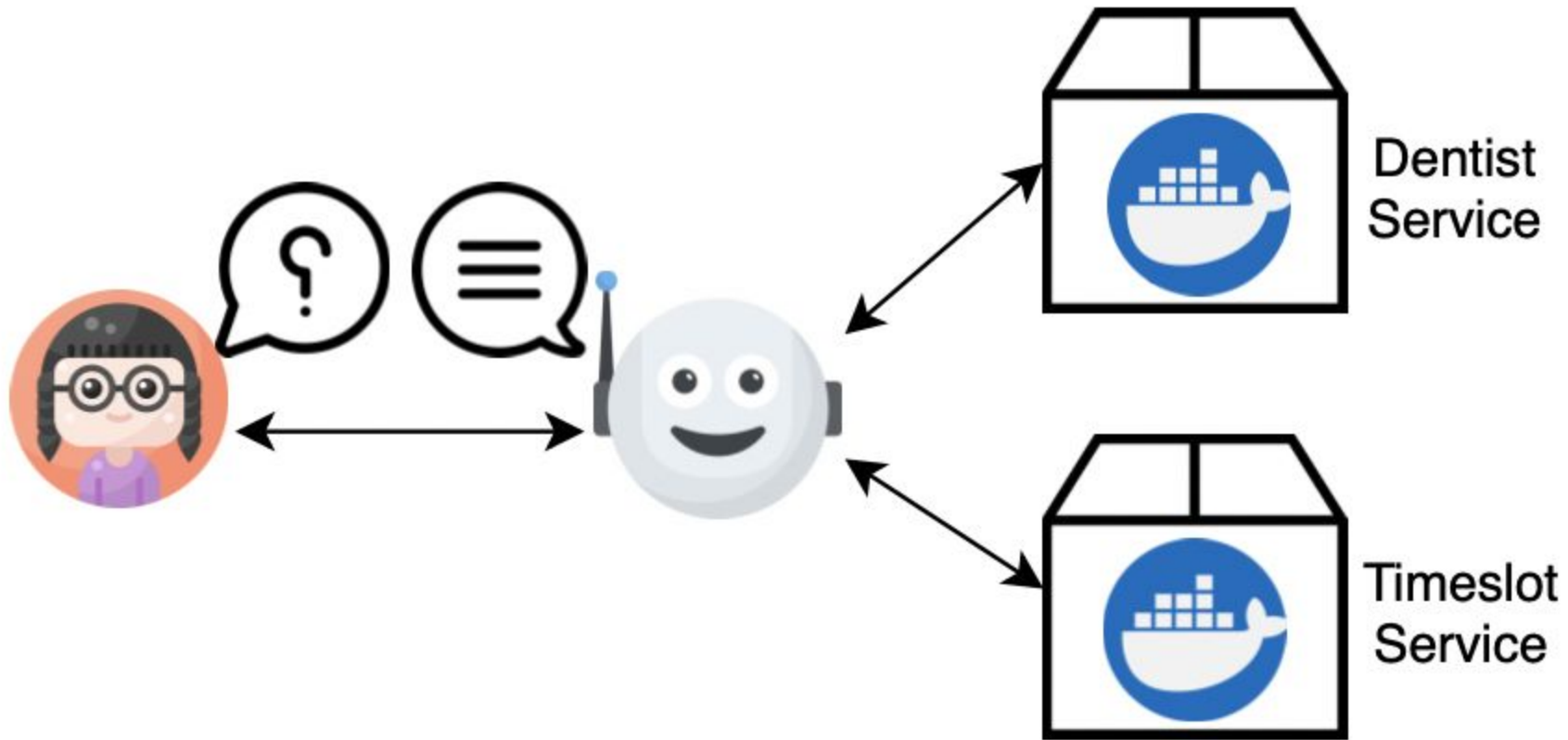
[The bot can check if the selected timeslot is already reserved and suggest another timeslot](#)

[The bot can confirm the booking and summarize at the end.](#)

[The bot can cancel the booking if the client requested it and ask for confirmation.](#)

Goal of the document

Help you to build my assignment and show my bot result using screenshots.



Icons made by www.flaticon.com

Section 1 - Setup Docker Microservice Environment

Dentist Microservice

1. Unzip assignment zip file: `unzip z5147810.zip`
2. Build docker image
`cd dentists`
`docker build -t dentist_service .`
3. Run docker and map ports
`docker run -p 5050:8000 -t dentist_service`

Timeslot Microservice

4. Open a new tab
5. Move to timeslots folder: `cd ../timeslots`
6. Build docker image
`docker build -t timeslot_service .`
7. Run docker and map ports
`docker run -p 5060:8010 -t timeslot_service`

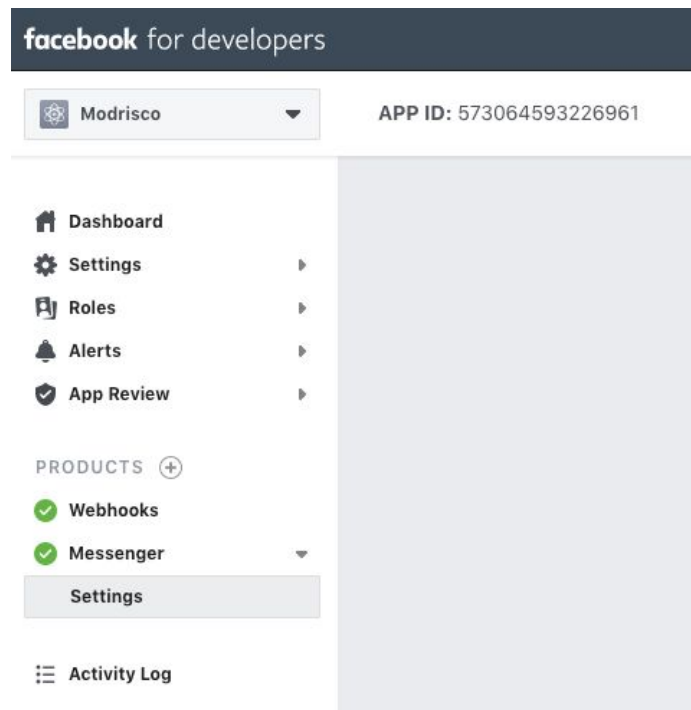
Section 2 - Facebook settings

Facebook Account:

- Username: menglingxu95@163.com
- Password: Wukecomp9322

Login Facebook Developer:

- Visit Facebook developer page and login with my account
- Visit Facebook page settings <https://developers.facebook.com/apps/573064593226961/messenger/settings/>



- Open a new tab and move to project root directory
- Install Python libraries to run messenger server: `pip3 install -r requirements.txt`

- Run server: `python3 server.py`

Connect Facebook Page with local server:

- Open a new tab and move to project root directory
- Download ngrok at <https://ngrok.com/download> (too large to contain in zip).
- Unzip zip to project root directory
- `chmod +x ngrok`
- Run ngrok and listen port 5000: `./ngrok http 5000`
- Copy callback URL and edit Facebook Developer Webhook
For example:

```
python3  #1  ./ngrok  #2  docker  #3  docker  #4  ../Assignment3  #5  ../Assignment3  #6  +
ngrok by @inconshreveable (Ctrl+C to quit)

Session Status      online
Session Expires     3 hours, 14 minutes
Version              2.3.34
Region               United States (us)
Web Interface        http://127.0.0.1:4040
Forwarding            http://f0fc4af8.ngrok.io -> http://localhost:5000
Forwarding            https://f0fc4af8.ngrok.io -> http://localhost:5000


Connections         ttl    opn    rt1    rt5    p50    p90
479                0      0.00   0.00   0.01   0.61

HTTP Requests
-----

POST /              500 INTERNAL SERVER ERROR
POST /              500 INTERNAL SERVER ERROR
POST /              500 INTERNAL SERVER ERROR
POST /              500 INTERNAL SERVER ERROR
POST /              500 INTERNAL SERVER ERROR
POST /              500 INTERNAL SERVER ERROR
POST /              500 INTERNAL SERVER ERROR
POST /              200 OK
POST /              500 INTERNAL SERVER ERROR
POST /              500 INTERNAL SERVER ERROR
POST /              200 OK
```

Copy Forwarding URL

The screenshot shows the Facebook Bot Configuration interface. At the top, there are tabs for 'Page' and 'Page Access Token'. Below these, there is a 'Select a Page' dropdown and an 'Access Token' input field. A blue 'Edit Permissions' button is on the right. A modal window titled 'Edit Callback URL' is open in the center. It contains two input fields: 'Callback URL' with the value 'https://f0fc4af8.ngrok.io' and 'Verify Token' with the value 'mlx'. At the bottom of the modal are 'Cancel' and 'Verify and Save' buttons. Below the modal, there is a 'Learn more' link and a 'Show Recent Errors' button. At the bottom of the page, there is a table with two columns: 'Pages' and 'Webhooks'. The 'Pages' column shows a page named 'DentistchatBot' with ID '107484273936761'. The 'Webhooks' column shows '3 Fields' (messages, messaging_postbacks, message_deliveries) and an 'Edit' button. An 'Add or Remove Pages' button is also visible.

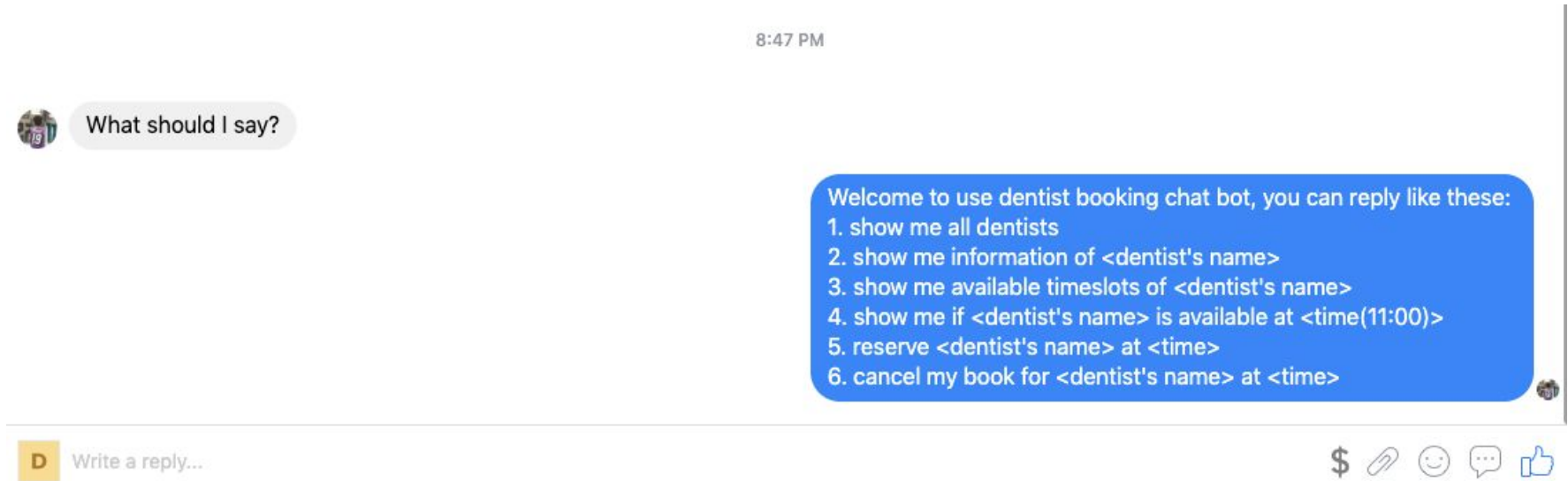
Pages ↑	Webhooks
 DentistchatBot 107484273936761	3 Fields messages, messaging_postbacks, message_deliveries Edit

Click 'Edit Callback URL' button and copy clipboard to 'Callback URL' and fill 'Verify Token' with 'mlx'

Facebook page should already become a chat bot.

Section 3 - Chat Screenshots

Default message



The bot should be able to respond to basic greetings



The bot can list all the available doctors in the clinic and the client can choose



show me all dentists

We have these professional dentists in our clinic:
Tony Stark
Steve Rogers
Natasha Romanoff



The bot asks the client for the preferred doctor and provide information about the doctor



show me information of Tony Stark

Tony Stark works at Kensington. Phone number is 0458888888, specification is Paediatric Dentistry



The bot can provide a list of available timeslots for the selected doctor



show me available timeslots of Tony Stark

Tony Stark's timeslot is:09:00-10:00: free;10:00-11:00: free;11:00-12:00: free;12:00-13:00: free;13:00-14:00: free;14:00-15:00: free;15:00-16:00: free;16:00-17:00: free



The bot can check if the selected timeslot is already reserved and suggest another timeslot



show me if Steve Rogers is available at 11:00

Sorry, the dentist is busy at this timeslot. You can book dentist's time at 12:00.
Sounds good for you?



Schedule: Tomorrow at 11:00 AM



Choose Different Time



The bot can confirm the booking and summarize at the end.



help me reserve Tony Stark at 11:00

Are you sure to book this timeslot?



yes

You have booked successfully



Schedule: Tomorrow at 11:00 AM



Choose Different Time



The bot can cancel the booking if the client requested it and ask for confirmation.



cancel my book for Tony Stark at 11:00

Are you sure to cancel your book at this timeslot?



yes

You have canceled successfully



Schedule Appointment

