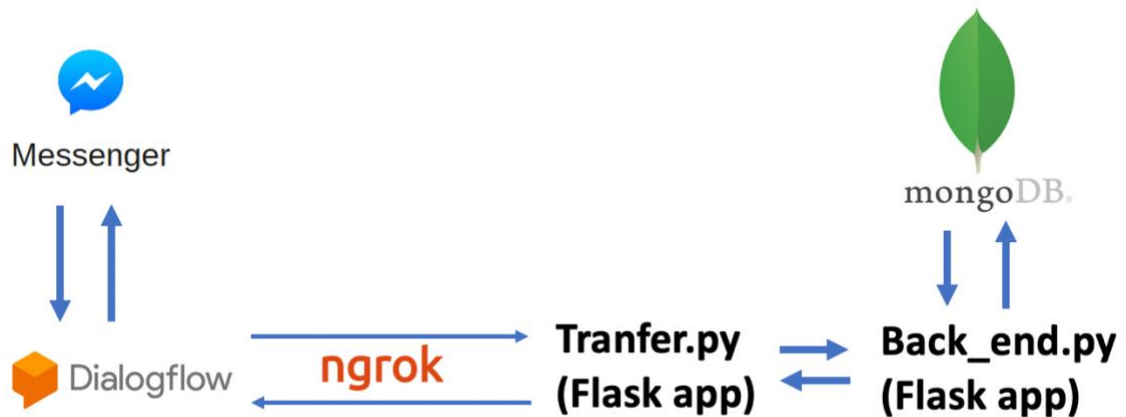# deployment instructions

1. **Structures**

There are four connections in this whole project.
a.   MongoDB and Back_end.py
b.   Back_end.py server and Transfer.py server
c.   Transfer.py server and Dialogflow through ngrok
d.   Dialoflow and Facebook Messager

The requirements are showed below:

Click	7.0	7.0
Flask	1.0.2	1.0.2
Jinja2	2.10	2.10
MarkupSafe	1.1.1	1.1.1
SQLAlchemy	1.3.2	1.3.2
Werkzeug	0.15.2	0.15.2
aniso8601	6.0.0	6.0.0
attrs	19.1.0	19.1.0
certifi	2019.3.9	2019.3.9
chardet	3.0.4	3.0.4
flask-restplus	0.12.1	0.12.1
idna	2.8	2.8
itsdangerous	1.1.0	1.1.0
jsonschema	3.0.1	3.0.1
knowledge	0.3	0.3
pip	10.0.1	▲ 19.0.3
pymongo	3.7.2	3.7.2
pyrsistent	0.14.11	0.14.11
pytz	2018.9	2018.9
requests	2.21.0	2.21.0
rivescript	1.14.9	1.14.9
setuptools	39.1.0	▲ 40.9.0
six	1.12.0	1.12.0
urllib3	1.24.1	1.24.1

The transfer.py requests urls from back_end.py as follows

url = "http://127.0.0.1:8888/Dentist"

url = "http://127.0.0.1:8888/GetDentistinfo/" + name

url = "http://127.0.0.1:8888/Gettimeslotsofdentist/" + name

url = "http://127.0.0.1:8888/Reserve/" + para['dentistname'] + '/' + para['timenumber']

url = "http://127.0.0.1:8888/Cancel/" + para['dentistname'] + '/' + para['timenumber']

The transfer.py also request paramaters and actions from dialogflow through codes below:

```
req = request.get_json(force=True)
```
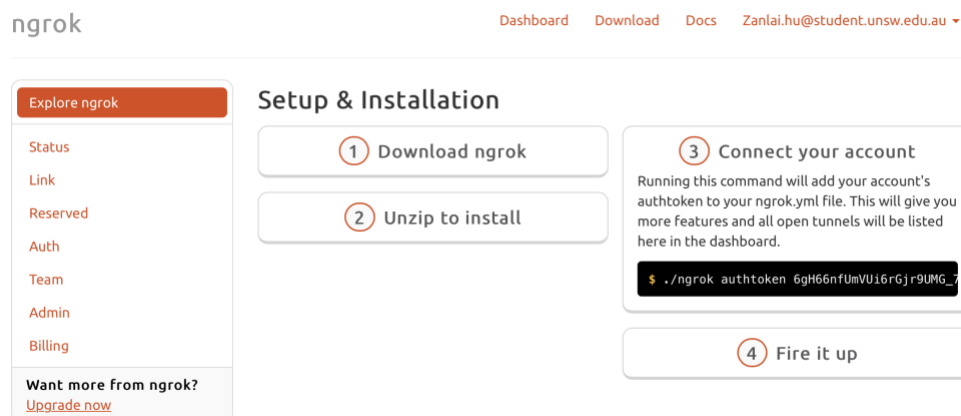
```
# fetch action from json
action = req.get('queryResult').get('action')
para = req.get('queryResult').get('parameters')
```

2. How to set up this whole system.
(There is a video tutorial about setting this system named "9322ass1.mov" in this zip file, it might helps)

a. *Run the Back_end.py*
   I set the port as 8888 for this server.
b. *Run the Transfer.py*
   I set the port as 5051.
c. *Run ngrok.*
   i.   sign in the ngrok website.
            The account: Zanlai.hu@student.unsw.edu.au
            The password: hzl5136463

To find the unique connection link:
./ngrok authtoken 6gH66nfUmVUi6rGjr9UMG_7GEsXavDtNypNxpfbuNpD
As the picture showed above.

   ii.   Download the ngrok into 'downloads'
   iii.   Open terminal and cd to the file path.

            Copy the link from step i. It will show some text lines.

Write the command line:./ngrok http 5051

It will show as below:

Copy forwarding link: https://fa1c67d3.ngrok.io
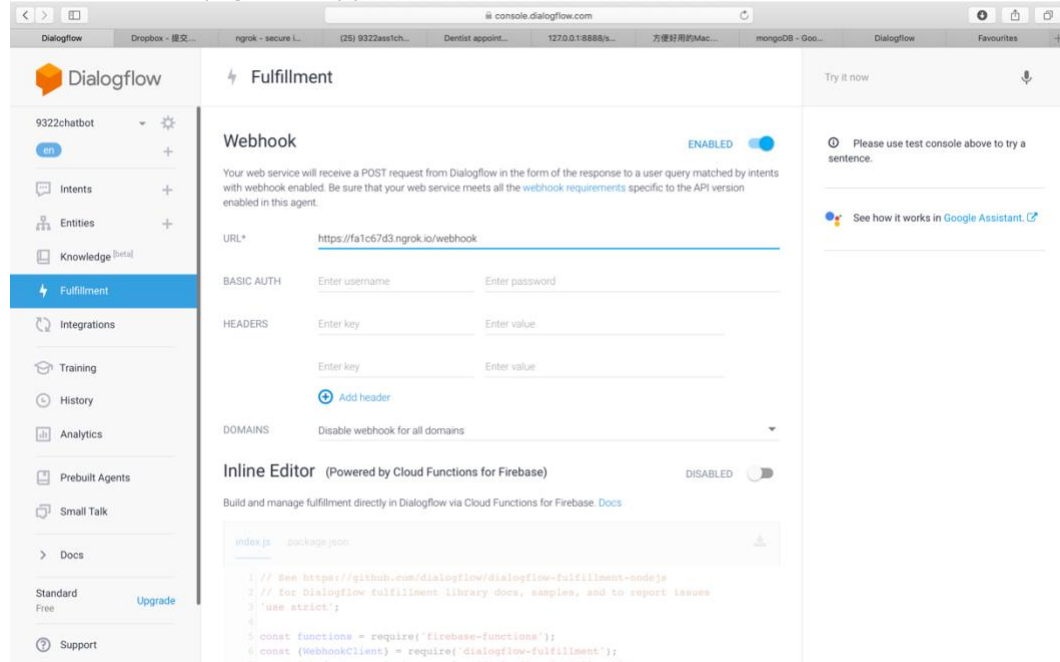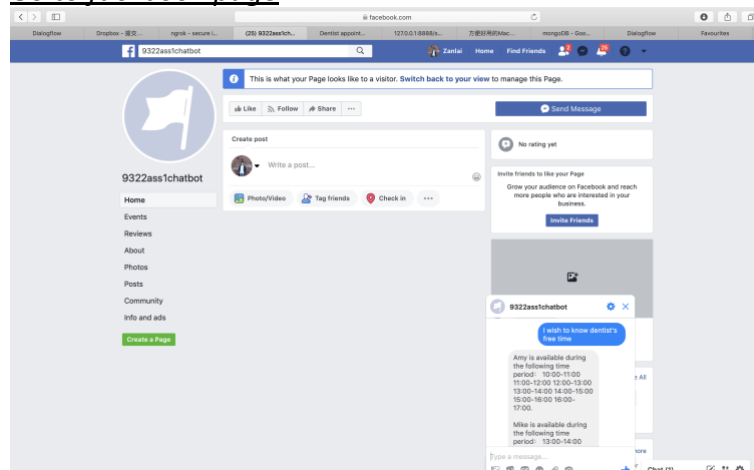
d. *Open dialogflow*

Sign in in page
Account: youlan0z0@gmail.com
Password: youlan0z031/
Go to fulfillment page the copy the link into 'URL*'.

e. *Go to fackbook page*

The customer can now talk with the chatbot.