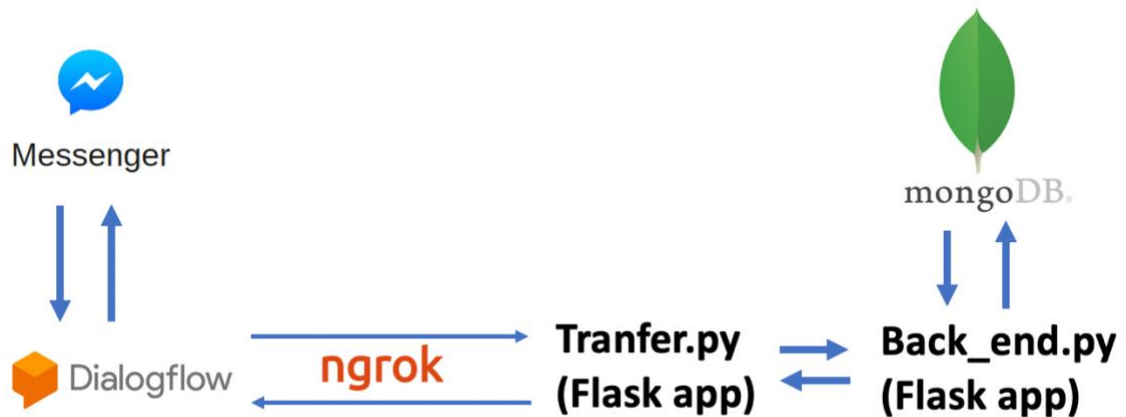


# deployment instructions

## 1. Structures



There are four connections in this whole project.

- MongoDB and Back\_end.py
- Back\_end.py server and Transfer.py server
- Transfer.py server and Dialogflow through ngrok
- Dialogflow and Facebook Messenger

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
```

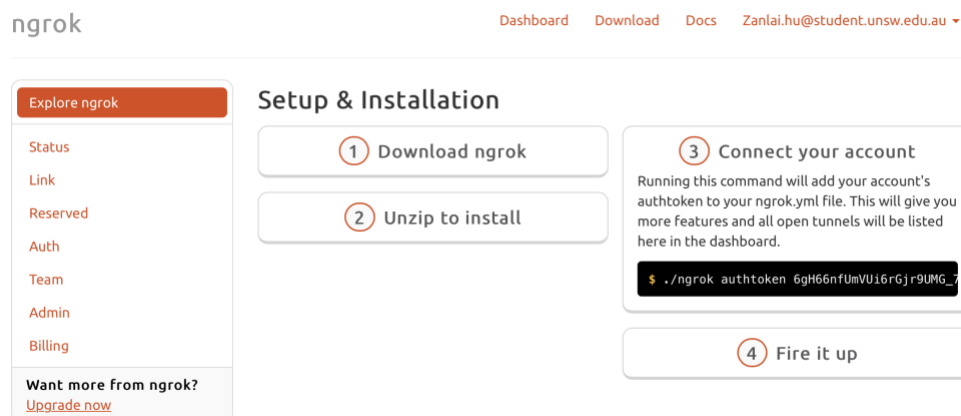
```
action = req.get('queryResult').get('action')
```

```
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](mailto: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.

```
huzanlai@MacBook-Pro:~ huzanlai$ ls
AnacondaProjects      Documents
AndroidStudioProjects Downloads
Applications           Library
CLionProjects          Movies
Creative Cloud Files   Music
Desktop                Pictures
huzanlai@MacBook-Pro:~ huzanlai$ cd Downloads/
huzanlai@MacBook-Pro:Downloads huzanlai$ ls
ngrok
```

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

Write the command line: `./ngrok http 5051`

`[huzanlai@MacBook-Pro:Downloads huzanlai$ ./ngrok http 5051]`

It will show as below:

```

ngrok by @inconshreveable

Session Status      online
Account             Zanlai (Plan: Free)
Version             2.3.25
Region              United States (us)
Web Interface        http://127.0.0.1:4040
Forwarding           http://fa1c67d3.ngrok.io -> http://localhost:5051
                    https://fa1c67d3.ngrok.io -> http://localhost:5051

Connections         ttl    opn    rt1    rt5    p50    p90
                    0      0      0.00   0.00   0.00   0.00
  
```

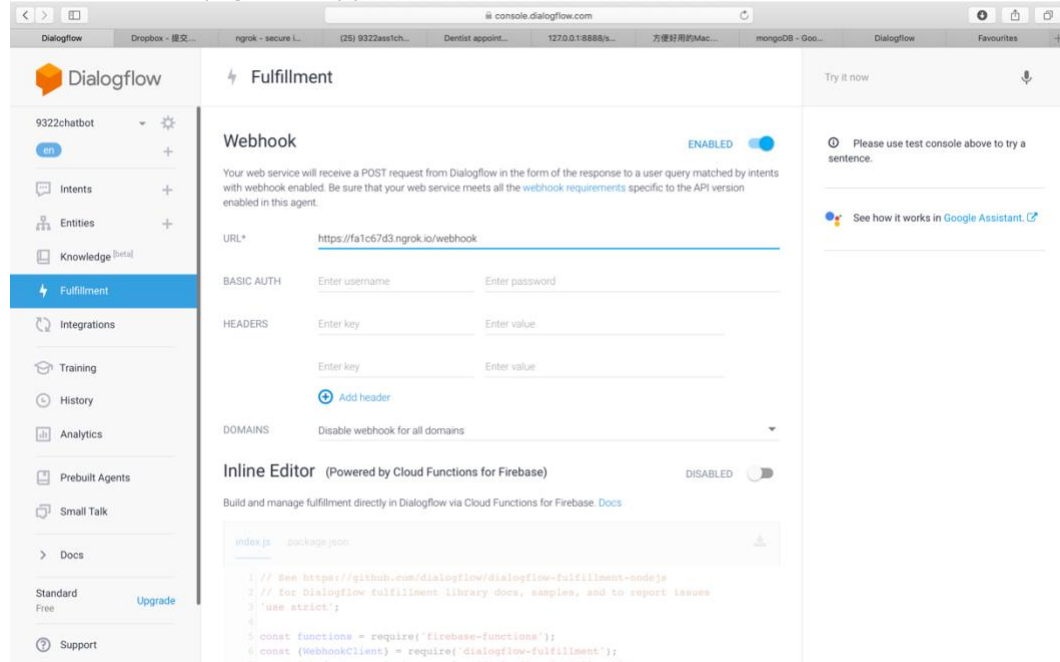
Copy forwarding link: <https://fa1c67d3.ngrok.io>

d. Open dialogflow

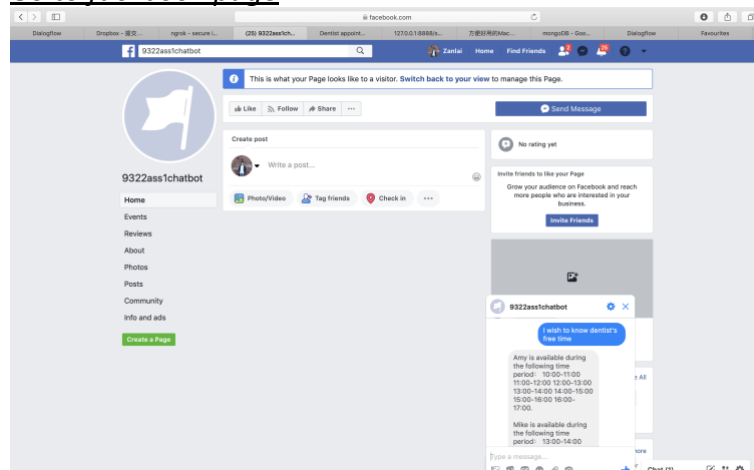
Sign in in page

Account: youlan0z0@gmail.com

Password: youlan0z031/

Go to fulfillment page the copy the link into 'URL\*'.  


e. Go to facebook page



The customer can now talk with the chatbot.