Personal Career Manager Software Agent Chatbot

User Guide

Team Name: Team10

Alfred Tay Wenjie, Kenneth Goh Chia Wei, Tan Heng Han, Wang Zilong, Raymond Ng Boon Cheong

NUS-ISS Master of Technology in Intelligent Systems

ISY5001 Cognitive System

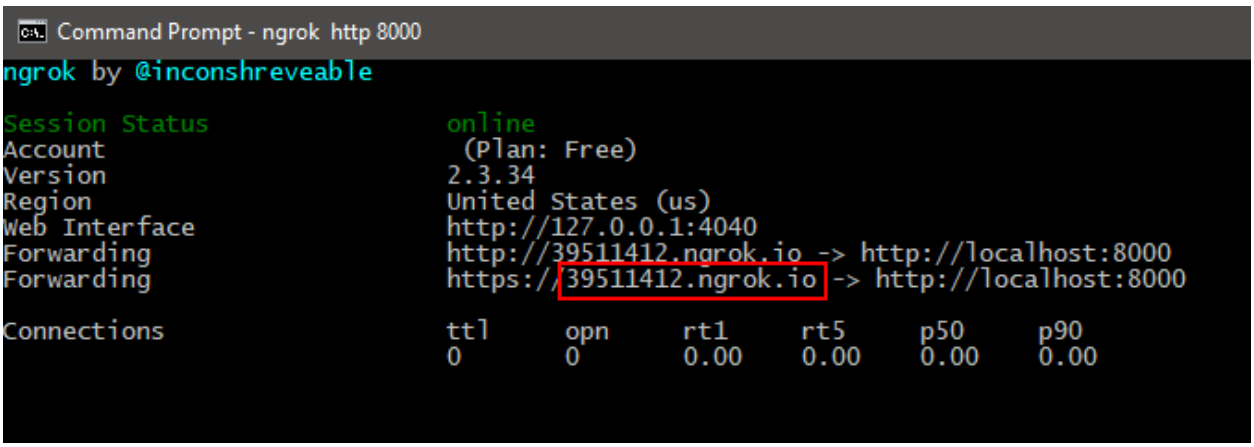
Setup:

Step 1) Clone or download zip from https://github.com/raymondng76/IRS-CS-2019-07-29-IS1FT-GRP-Team10-Personal-Career-Manager-Software-Agent

Step 2) Download ngrok executable from www.ngrok.com.

Step 3) Launch a command console and run the following command.

```
ngrok http 8000
```



*Note: ngrok is hosted in the United States, it is possible for network timeout when using the chatbot during United States daytime due to busy traffic.

Step 4) Navigate to the cloned project folder and open the settings.py file from the following folder with any text editor,

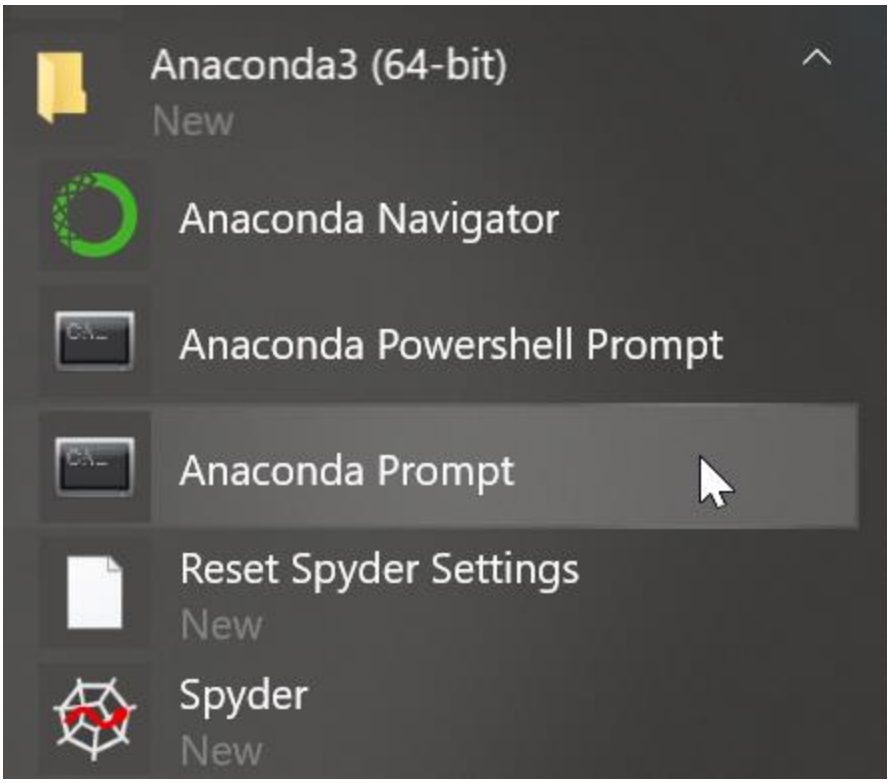
.\IRS-CS-2019-07-29-IS1FT-GRP-Team10-Personal-Career-Manager-Software-Agent\SystemCode\Level_Up_Chatbot\Level_Up\settings.py

Step 5) Copy the https address (omit '**https://**') shown on Step 3 (highlighted in red box) and paste it to the '**ALLOWED_HOSTS**' section in the '**settings.py**' file as shown below, save and close the file. (Note: This step needs to be repeated everytime ngrok is re-launched).

```
ALLOWED_HOSTS = [
    '39511412.ngrok.io',
    '127.0.0.1',
    'localhost'
    ]
```

Step 6) Install Anaconda from www.anaconda.org

Step 7) Launch Anaconda prompt from start menu (right click and run as administrator)

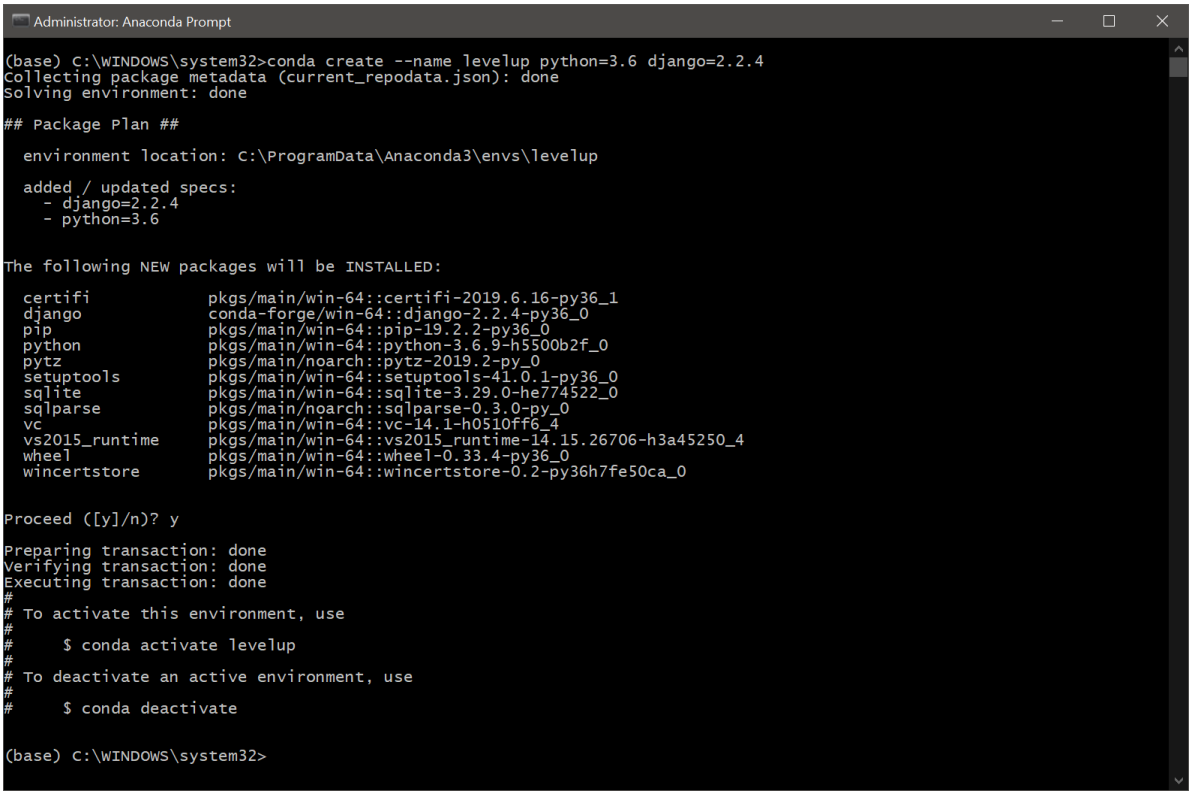


Step 8) From the Anaconda prompt console, enter the follow command to add the conda-forge channel to conda.

```
conda config –append channels conda-forge
```

Step 9) From the Anaconda prompt console, enter the follow command to create a virtual environment.

```
conda create --name levelup python=3.6 django=2.2.4
```



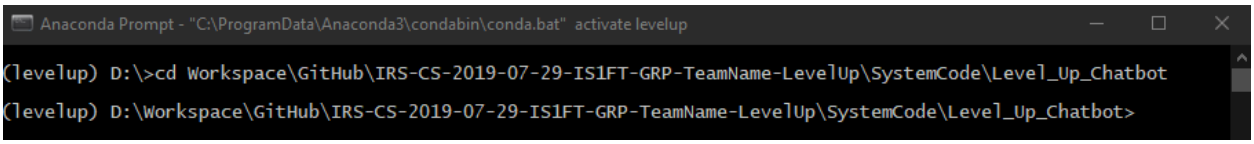
Step 10) Enter the following command to activate the newly created environment.

```
conda activate levelup
```

Step 11) Install Experta package with the following command

```
pip install experta==1.9.1
```

Step 12) Navigate to the **Level_Up_Chatbot** folder of the cloned Github project.

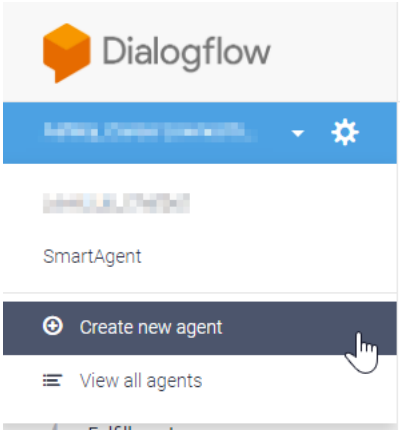


Step 13) Enter the following command to start the Django server.

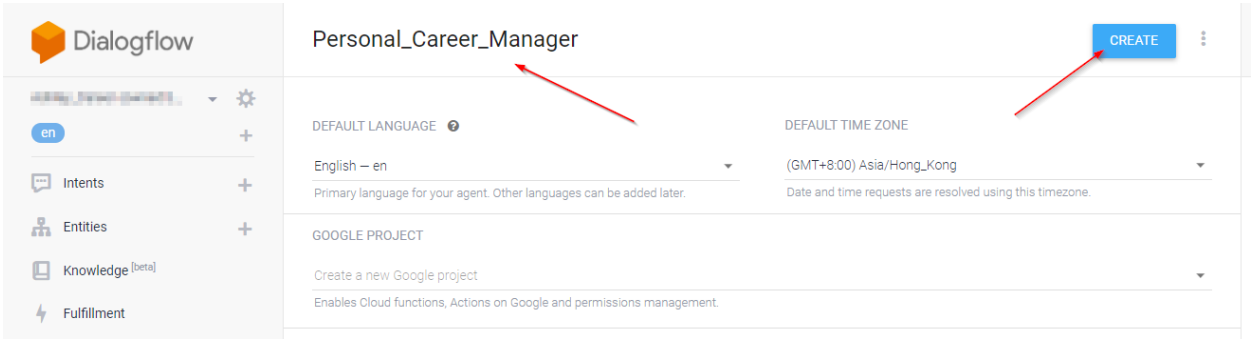
```
python manage.py runserver
```

Step 14) Go to www.Dialogflow.com and sign in with Google account. Click on '**Open Console**' from the top right.

Step 15) Click on the dropdown list on the top left and click '**Create new agent**'.

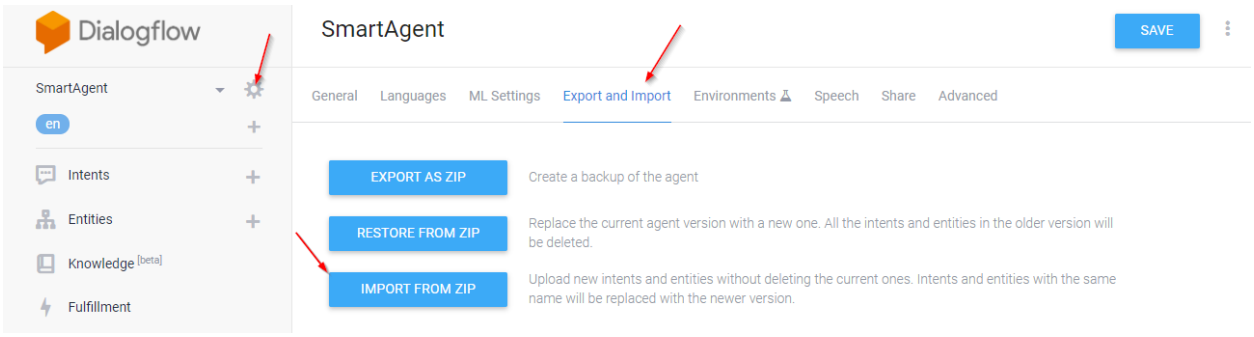


Step 16) Enter a name for the agent and click the '**Create**' button.



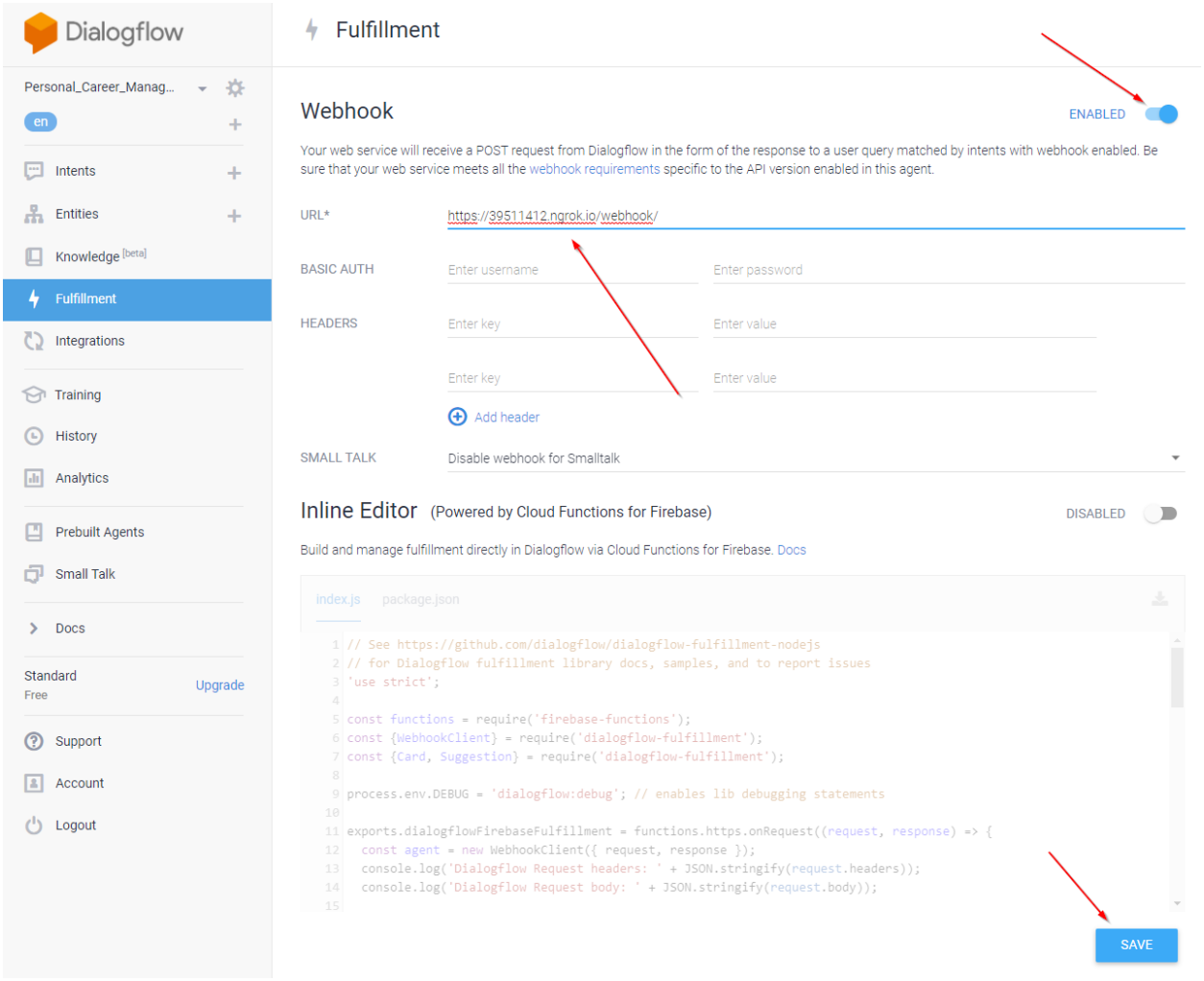
Step 17) Click on the gear icon then click on '**Export and Import**' tab. Click on '**IMPORT FROM ZIP**' button and select the zipped intent packages from the cloned Github project '**SystemCode**' folder as shown below.

.\IRS-CS-2019-07-29-IS1FT-GRP-Team10-Personal-Career-Manager-Software-Agent \SystemCode\Team10_Personal Career Manager Software Agent - Dialogflow Intents.zip



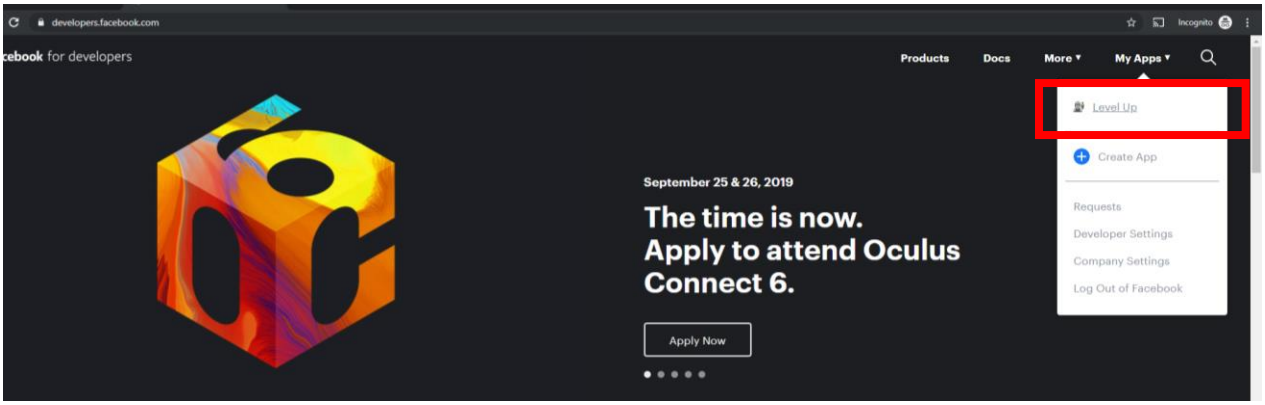
Step 18) Select the imported agent from the top left and click on the 'Fulfillment' tab.

Step 19) Enable the webhook if it is not enabled already. Enter the full ngrok address from Step 3 with a '**/webhook/**' suffix in the URL field. Press save button at bottom right once done.

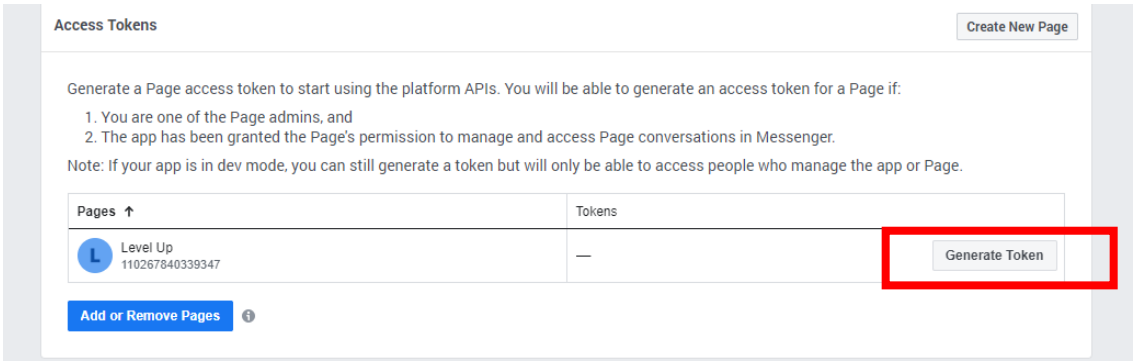


Step 20) Go to www.facebook.com and login with the credentials zipped with the submission folder in Luminus <**IRS-CS-2019-07-29-IS1FT-GRP-Team10-Personal-Career-Manager-Software-Agent\Facebook Account Credentials**>. For security reasons, the credentials are not uploaded to Github.

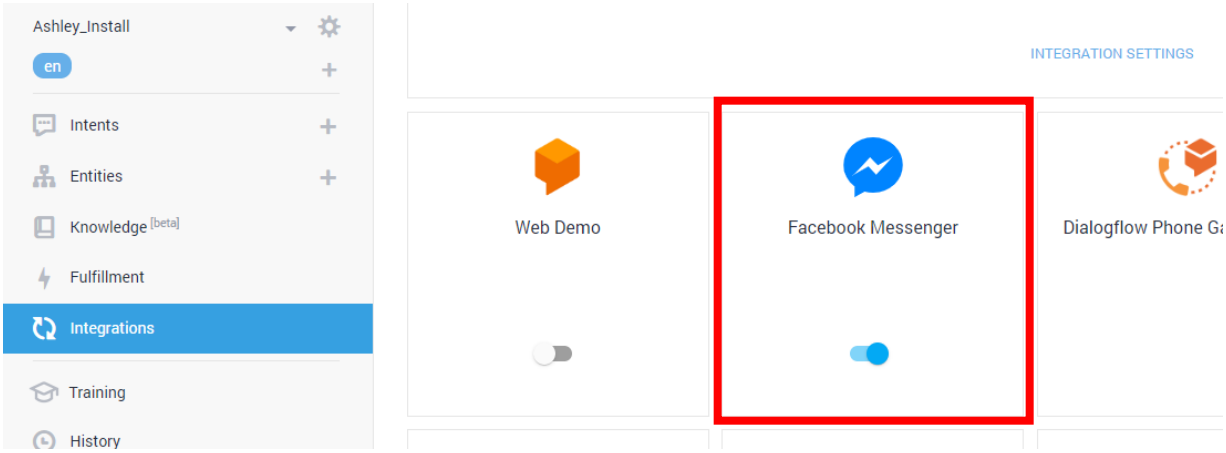
Step 21) Go to https://developers.facebook.com/ and hover on “My apps” on the right upper corner then select “Level Up” (This step assumes that you already have logged into Facebook and the Facebook Developer account).

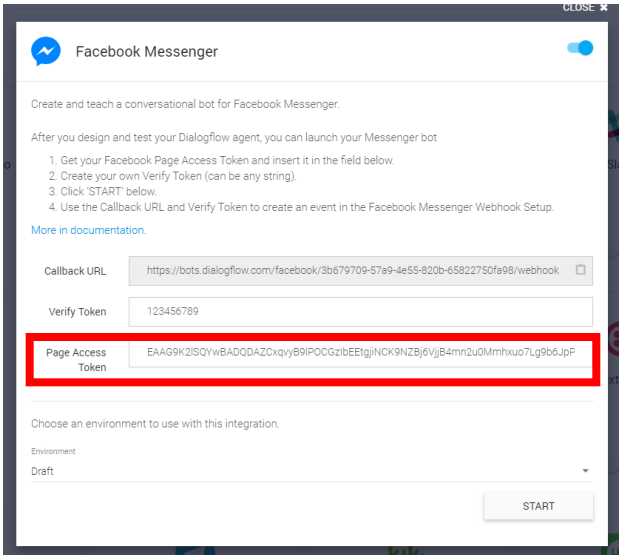


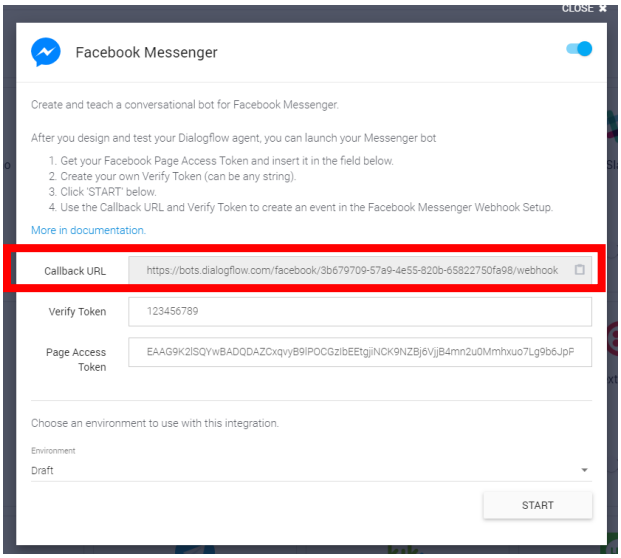
Step 22) On the left hand menu of the dashboard, select “Messenger” and then “**Settings**”. Scroll down to the Access Tokens and click Generate Token. **Copy** the Token Generated.



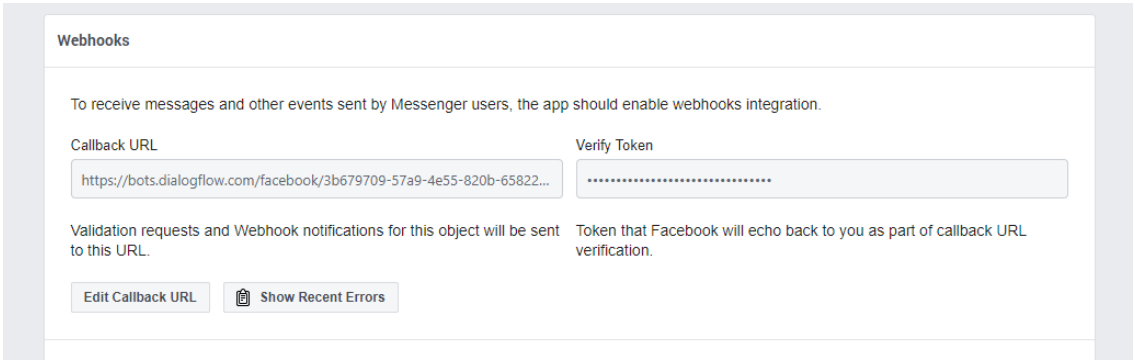
Step 23) Go back to the console of DialogFlow, select “**Integrations**” and click on the Facebook Messenger Icon. Paste the token copied into the Page Access Token as shown below. Enter any verify token you wish. In this case for e.g. “123456789”. Then copy the Callback URL as shown below.

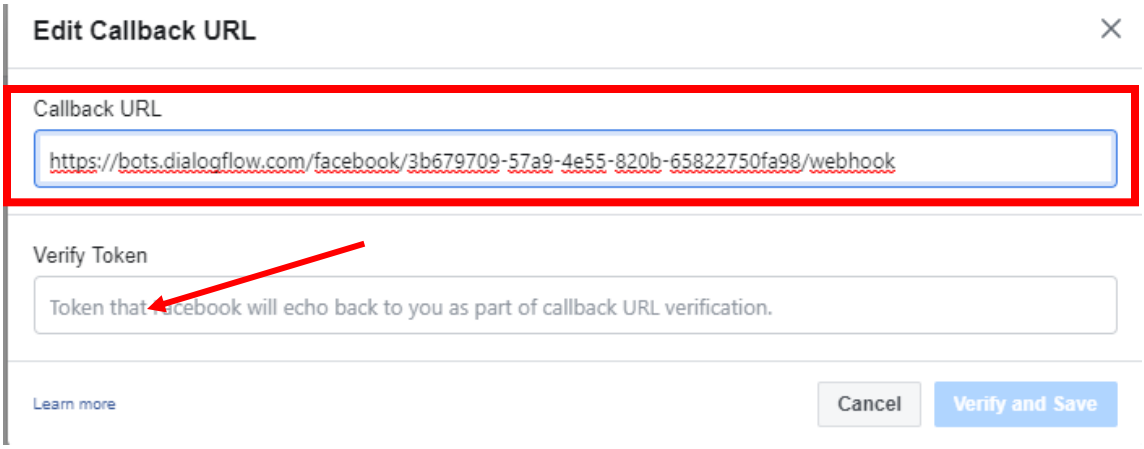






<u>Step 24)</u> Coming back to the Facebook Developer – Messenger – Settings Page. Scroll down to the Webhooks portion and click Edit Callback URL. Now, paste the Callback URL that you have copied from DialogFlow into the portion shown below and Enter the same verify token you entered in DialogFlow above - "**123456789**". Click the Verify and Save Button.





Step 25) Go to www.facebook.com/LevelUpNus and click on '**Message**' button to start the chatbot.