



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

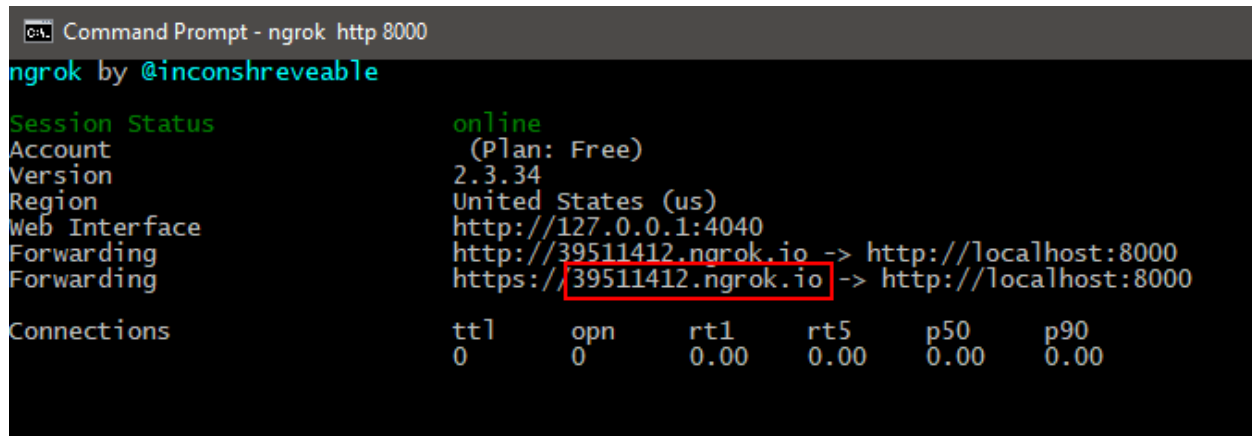
Setup:

Step 1) Clone or download zip from <https://github.com/raymondng76/IRS-CS-2019-07-29-IS1FT-GRP-TeamName-LevelUpChatbot>

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

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

ngrok http 8000



```
Command Prompt - ngrok http 8000
ngrok by @inconshreveable

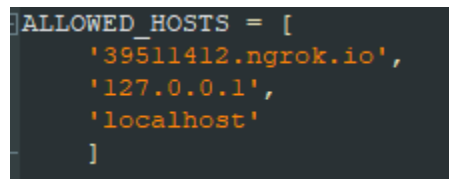
Session Status      online
Account             (Plan: Free)
Version             2.3.34
Region              United States (us)
Web Interface       http://127.0.0.1:4040
Forwarding           http://39511412.ngrok.io -> http://localhost:8000
                   https://39511412.ngrok.io -> http://localhost:8000

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

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

.\GitHub\IRS-CS-2019-07-29-IS1FT-GRP-TeamName-LevelUp\SystemCode\Level_Up_Chatbot\Level_Up\settings.py

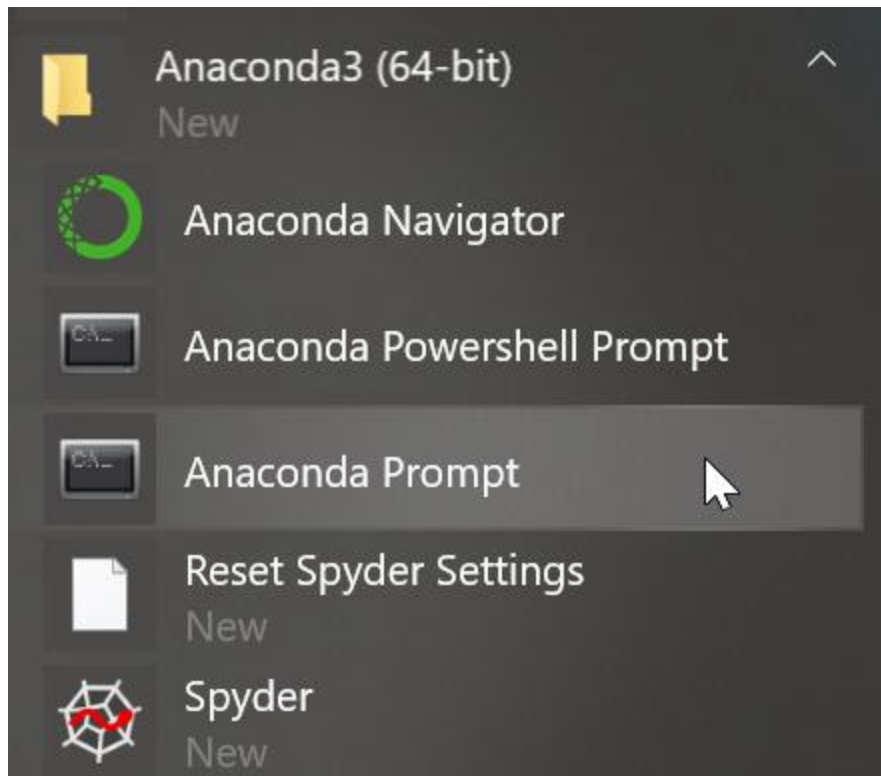
Step 5) Copy the https address (omit 'https://') shown on Step 3 (highlighted in red box) and paste it to the 'ALLOWED_HOSTS' section in the 'settings.py' file as shown below, save and close the file. (Note: This step needs to be repeated everytime ngrok is re-launched).



```
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 create a virtual environment.

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

```
Administrator: Anaconda Prompt

(base) C:\WINDOWS\system32>conda create --name levelup python=3.6 django=2.2.4
Collecting package metadata (current_repodata.json): done
Solving environment: done

## Package Plan ##

  environment location: C:\ProgramData\Anaconda3\envs\levelup

  added / updated specs:
    - django=2.2.4
    - python=3.6

The following NEW packages will be INSTALLED:

certifi          pkgs/main/win-64::certifi-2019.6.16-py36_1
django           conda-forge/win-64::django-2.2.4-py36_0
pip              pkgs/main/win-64::pip-19.2.2-py36_0
python           pkgs/main/win-64::python-3.6.9-h550b2f_0
pytz             pkgs/main/noarch::pytz-2019.2-py_0
setuptools       pkgs/main/win-64::setuptools-41.0.1-py36_0
sqlite           pkgs/main/win-64::sqlite-3.29.0-he774522_0
sqlparse         pkgs/main/noarch::sqlparse-0.3.0-py_0
vc               pkgs/main/win-64::vc-14.1-h0510ff6_4
vs2015_runtime   pkgs/main/win-64::vs2015_runtime-14.15.26706-h3a45250_4
wheel            pkgs/main/win-64::wheel-0.33.4-py36_0
wincertstore     pkgs/main/win-64::wincertstore-0.2-py36h7fe50ca_0

Proceed ([y]/n)? y
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
#
# To activate this environment, use
#
#   $ conda activate levelup
#
# To deactivate an active environment, use
#
#   $ conda deactivate
#

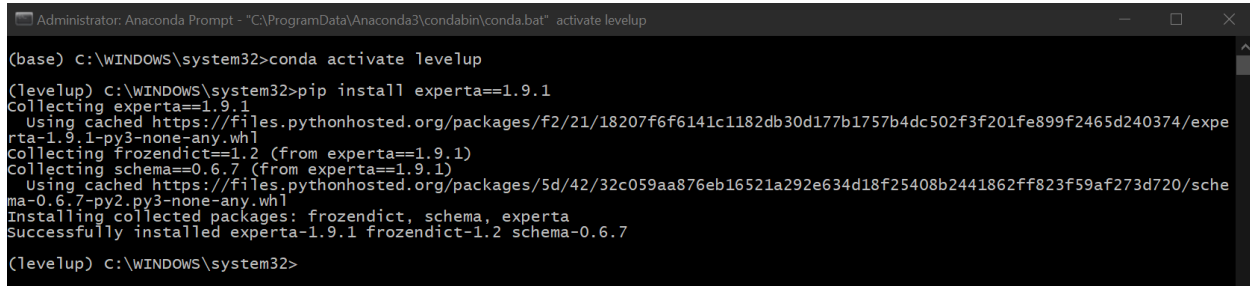
(base) C:\WINDOWS\system32>
```

Step 9) Enter the following command to activate the newly created environment.

conda activate levelup

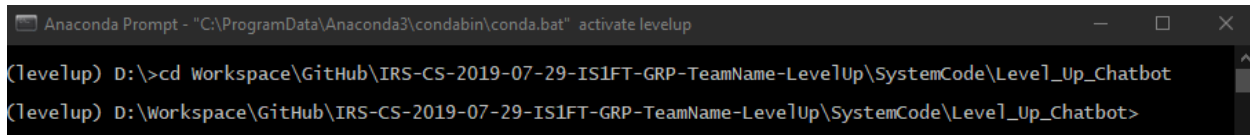
Step 10) Install Experta package with the following command

pip install experta==1.9.1



```
Administrator: Anaconda Prompt - "C:\ProgramData\Anaconda3\condabin\conda.bat" activate levelup
(base) C:\WINDOWS\system32>conda activate levelup
(levelup) C:\WINDOWS\system32>pip install experta==1.9.1
Collecting experta==1.9.1
  Using cached https://files.pythonhosted.org/packages/f2/21/18207f6f6141c1182db30d177b1757b4dc502f3f201fe899f2465d240374/experta-1.9.1-py3-none-any.whl
Collecting frozendict==1.2 (from experta==1.9.1)
Collecting schema==0.6.7 (from experta==1.9.1)
  Using cached https://files.pythonhosted.org/packages/5d/42/32c059aa876eb16521a292e634d18f25408b2441862ff823f59af273d720/schema-0.6.7-py2.py3-none-any.whl
Installing collected packages: frozendict, schema, experta
Successfully installed experta-1.9.1 frozendict-1.2 schema-0.6.7
(levelup) C:\WINDOWS\system32>
```

Step 11) Navigate to the **Level_Up_Chatbot** folder of the cloned Github project.



```
Anaconda Prompt - "C:\ProgramData\Anaconda3\condabin\conda.bat" activate levelup
(levelup) D:\>cd Workspace\GitHub\IRS-CS-2019-07-29-IS1FT-GRP-TeamName-LevelUp\SystemCode\Level_Up_Chatbot
(levelup) D:\Workspace\GitHub\IRS-CS-2019-07-29-IS1FT-GRP-TeamName-LevelUp\SystemCode\Level_Up_Chatbot>
```

Step 12) Enter the following command to start the Django server.

python manage.py runserver



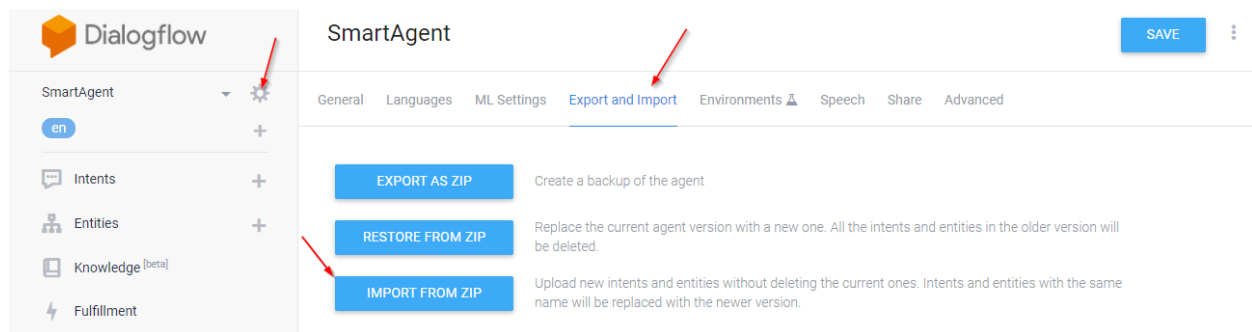
```
Anaconda Prompt - "C:\ProgramData\Anaconda3\condabin\conda.bat" activate levelup - python manage.py runserver
(levelup) D:\Workspace\GitHub\IRS-CS-2019-07-29-IS1FT-GRP-TeamName-LevelUp\SystemCode\Level_Up_Chatbot>python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).
August 24, 2019 - 11:00:33
Django version 2.2.4, using settings 'Level_Up.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
```

Step 13) Go to www.Dialogflow.com and sign in with Google account. Click on ‘Open Console’ from the top right.

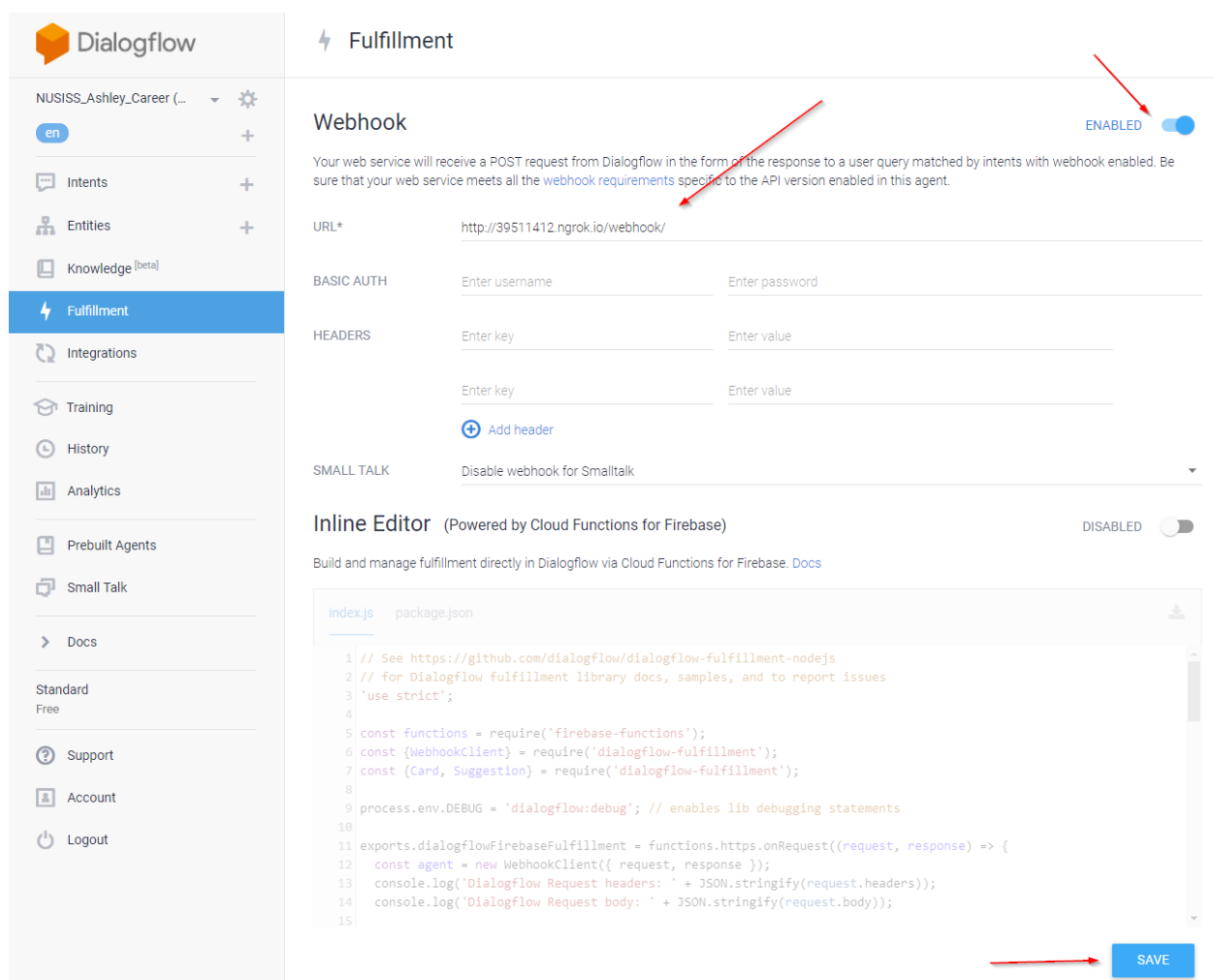
Step 14) Click on the gear icon then click on ‘Export and Import’ tab. Click on ‘IMPORT FROM ZIP’ button and select the zipped intent packages from the cloned Github project ‘SystemCode’ folder as shown below.

.\GitHub\IRS-CS-2019-07-29-IS1FT-GRP-TeamName-LevelUp\SystemCode\Team10_Personal Career Manager Software Agent - Dialogflow Intents.zip



Step 15) Select the imported agent from the top left and click on the 'Fulfillment' tab.

Step 16) 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 17) Go to www.facebook.com and login with the credentials zipped with the submission folder.

Step 18) Go to www.facebook.com/LevelUpNus and click on 'Send Message' button to start the chatbot.

