



Personal Career Manager Software Agent Chatbot User Guide

Team Name: Team10

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NUS-ISS Master of Technology in Intelligent Systems
ISY5001 Cognitive System

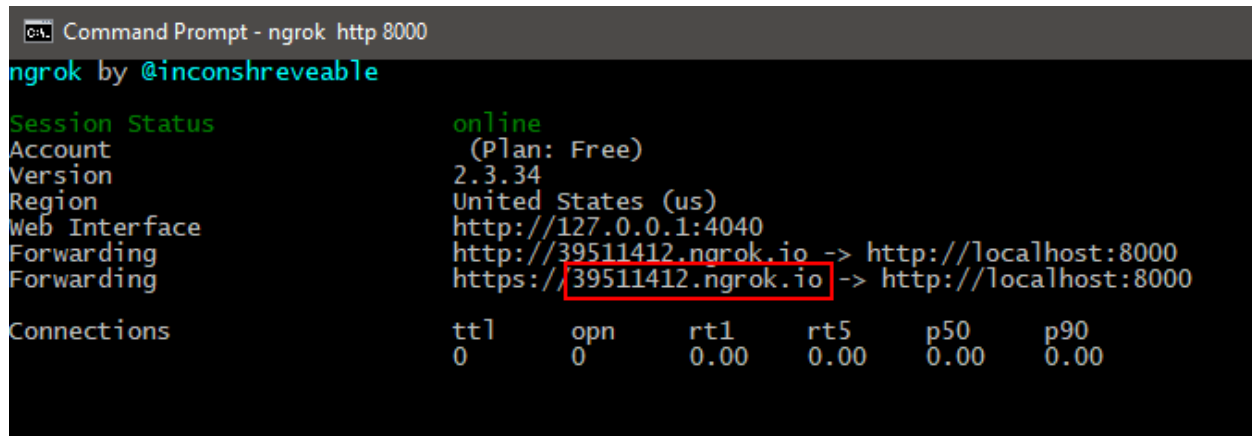
Setup:

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



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

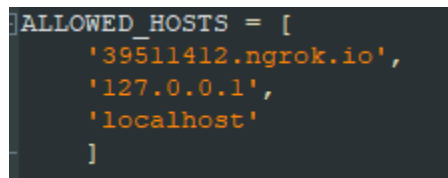
Session Status      online
Account             (Plan: Free)
Version             2.3.34
Region              United States (us)
Web Interface        http://127.0.0.1:4040
Forwarding           http://39511412.ngrok.io -> http://localhost:8000
                    https://39511412.ngrok.io -> http://localhost:8000
Connections
  ttl    opn    rt1    rt5    p50    p90
    0     0     0.00  0.00  0.00  0.00
```

*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

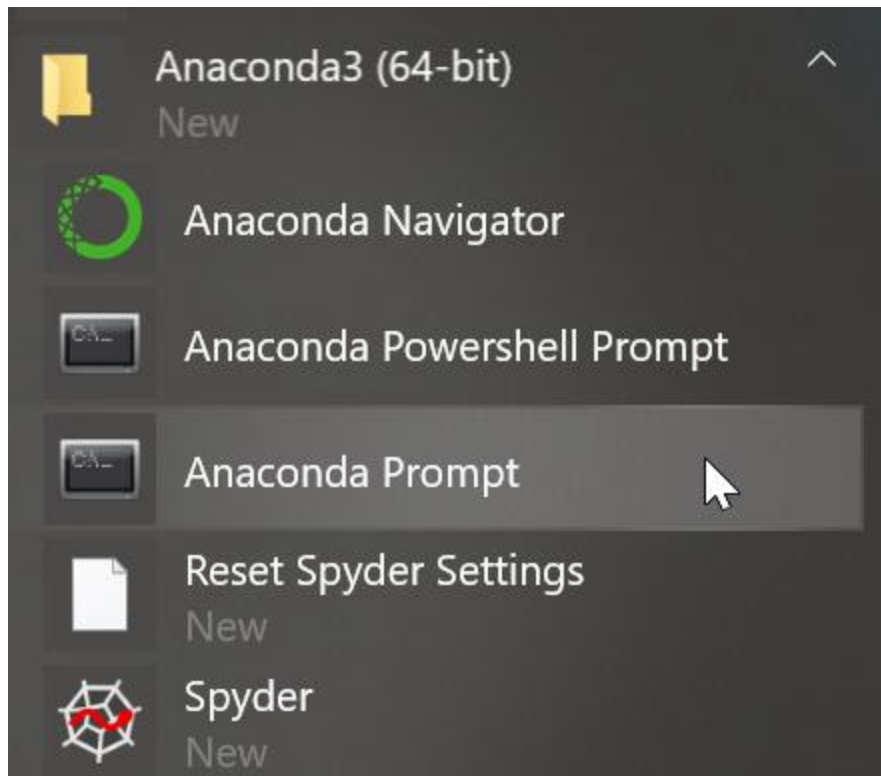
Step 5) Copy the https address (omit 'https://') shown on Step 3 (highlighted in red box) and paste it to the 'ALLOWED_HOSTS' section in the 'settings.py' file as shown below, save and close the file. (Note: This step needs to be repeated everytime ngrok is re-launched).



```
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

```
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 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

```
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 12) 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 13) Enter the following command to start the Django server.

python manage.py runserver

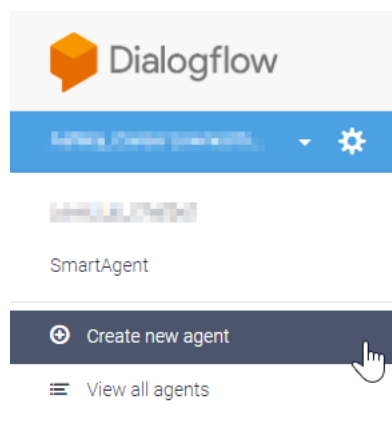
```
Anaconda Prompt - "C:\ProgramData\Anaconda3\condabin\conda.bat" activate levelup - python manage.py runserver

(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...

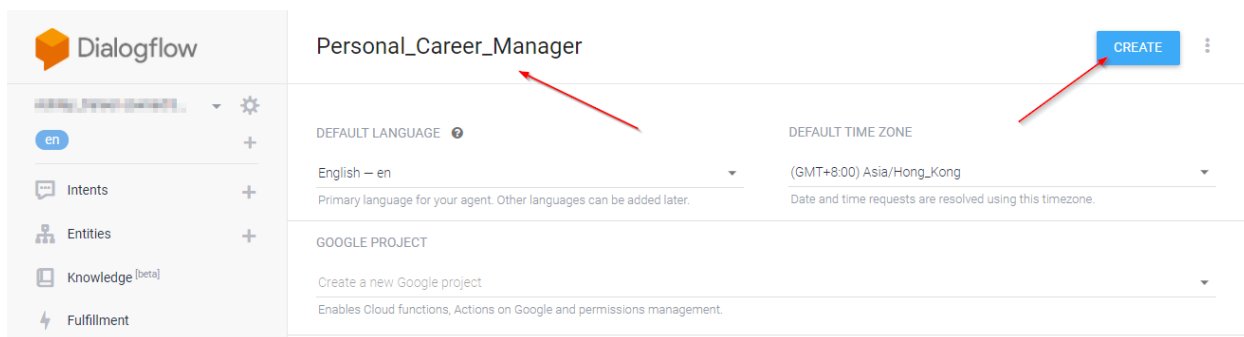
System check identified no issues (0 silenced).
August 24, 2019 - 11:00:33
Django version 2.2.4, using settings 'Level_Up.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
```

Step 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’.

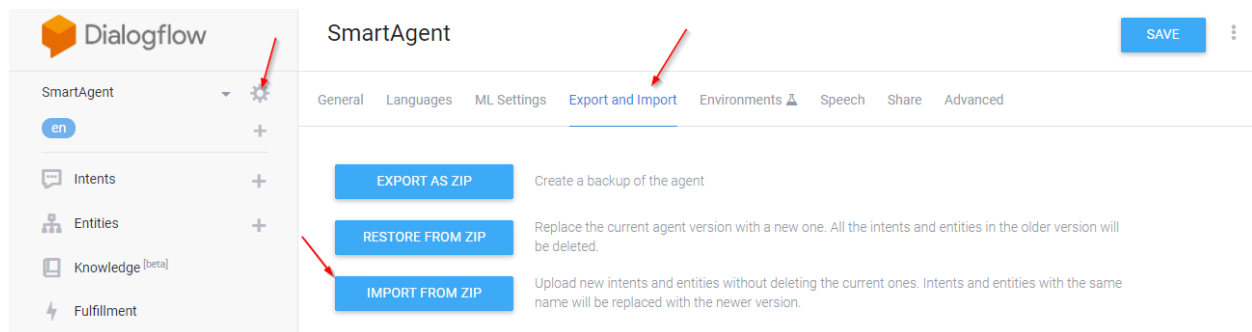


Step 16) Enter a name for the agent and click the ‘Create’ button.



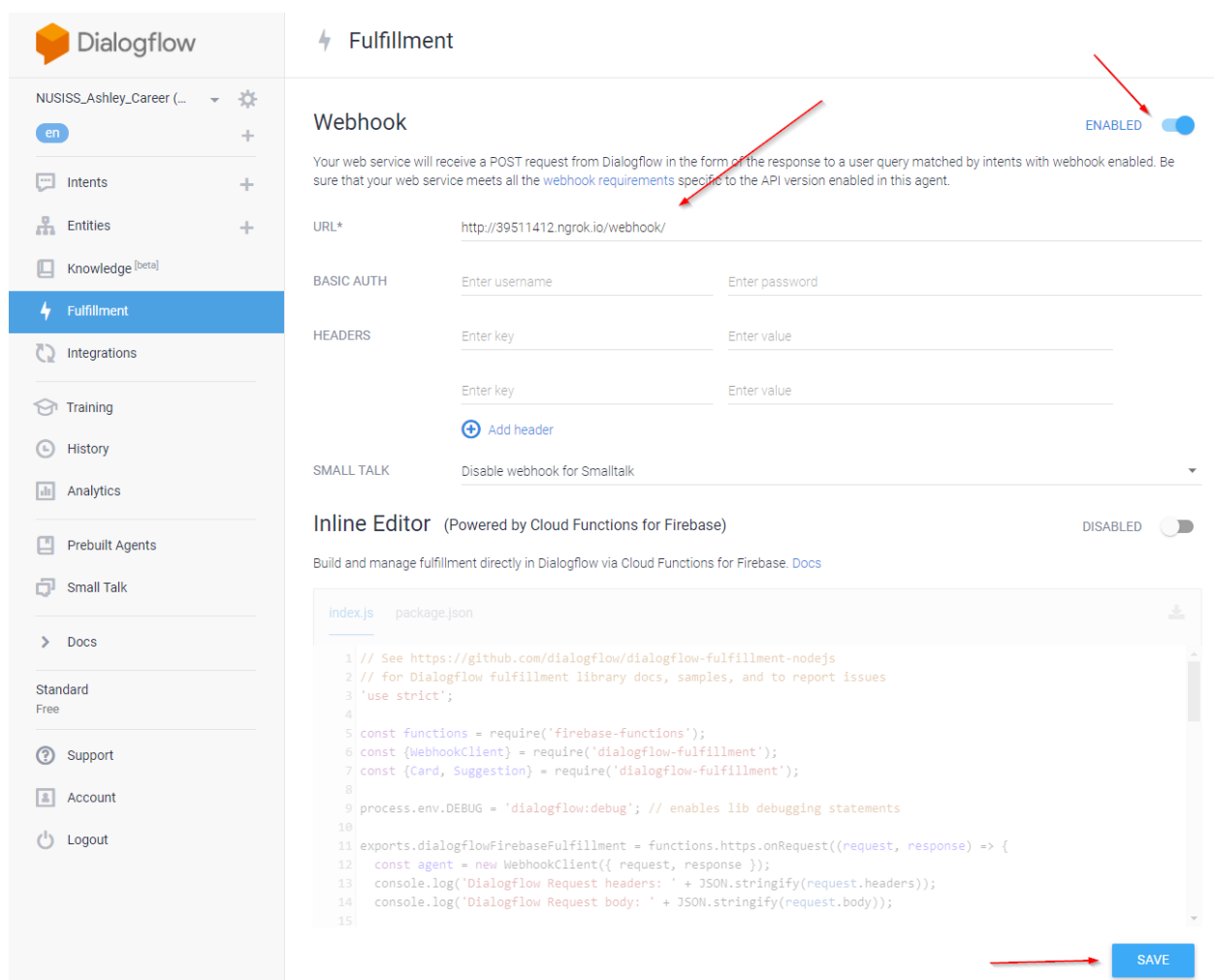
Step 17) Click on the gear icon then click on ‘Export and Import’ tab. Click on ‘IMPORT FROM ZIP’ button and select the zipped intent packages from the cloned Github project ‘SystemCode’ folder as shown below.

**.\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 www.facebook.com/LevelUpNus/ and click on 'Send Message' button to start the chatbot.

