slackbot-integration.md 7/19/2018

Build a slackbot

Use a slack bot to chat with your Watson Assistant Solutions tenant.

About this task

Create a slack bot that routes requests and responses in text to and from Watson Assistant Solutions.

Before you begin

Complete these steps to set up your environment:

1. Create a custom slack bot user

Create a new bot user for your slack account. Copy the username and API token for later use. For instructions, see the Custom bot users section of Bot Users.

2. Set up your python environment

Complete these steps:

- 1. Install python version 3.6 from the python.org website.
- 2. Install the python packages python-dotenv, slackclient, sys, and requests. For example:

```
pip install python-dotenv slackclient sys requests
```

Procedure

Complete these steps to build a slack bot locally:

- 1. Clone the Watson Assistant Solutions slack bot.
- 2. Find the ../simple_WA_slackbot/.env.sample and rename it .env. The file must be in the root folder. **Tip**: Keep any credential configuration files private.
- 3. Edit the file to include the following:
 - logging level
 - slack bot user credentialls
 - Watson Assistant Solution credentials
 - Fallback phrase

Example:

```
# Log Level (DEBUG, INFO, WARNING, ERROR)
LOG_LEVEL="WARNING"
```

slackbot-integration.md 7/19/2018

```
# Slack Credentials
SLACK_API_TOKEN="Place_your_slack_bot_API_token_here"
BOT_ID=""Place_your_bot_user_name_here""

# WA Credentials
WA_URL="https://watson-personal-assistant-toolkit.mybluemix.net"
WA_SKILLSET="place_your_skillset_name_here"
WA_API_KEY="place_your_skillset_name_here""
WA_LANGUAGE="en-US"
WA_DEVICE_TYPE="slackbot"

# Fallback Phrases, Comma separated. OPTIONAL (Leave as empty string if undesired)
FALLBACK_RESPONSES="I didn't quite catch that, I don't understand"
```

4. Start your slack bot. Enter:

```
python3 bot.py
```

- 5. Converse with your Watson Assistant Solutions tenant using slack. Either:
 - Send a direct message to your bot on slack.
 - Invite your slack bot to a slack channel. Enter @botname _question_ to chat.

Hosting your slack bot on IBM Cloud

Complete these steps:

- 1. Install the IBM Cloud CLI.
- 2. Log in to IBM Cloud from the command line. Enter:

```
bx login --sso
```

3. Push your slack bot application to IBM Cloud. Assign a name to the application and enter:

```
bx cf push $PLACE_YOUR_APP_NAME_HERE --no-route true --health-check-type process
```

- 1. Add VCAP variables. For instructions, see the various options [here] (https://console.ng.bluemix.net/docs/manageapps/depapps.html#ud_env) and here.
- 2. Restage your application through the IBM Cloud UI or from the command-line. For example:

```
bx cf restage $YOUR_APP_NAME
```

slackbot-integration.md 7/19/2018

Testing your slack bot application

To run all unit tests, enter:

```
python3 -m unittest discover
```

To run a specific unit test, enter:

```
python3 -m unittest test.test_env_file
```

General Logs

All chat bot logs are in the /slackbot.log file. The file mostly consists of requests, responses, and slack logging.

Logging unrecognized intents

You can log all responses that return a fallback response or no response from your assistant. The responses are written to the /fallback_responses.csv file.

To enable the logging of unrecognized intents, add the fallback responses in FALLBACK_RESPONSES variable in the .env file update please ensure that in your local .env or variables (local) or in your VCAP environment variables (IBM Cloud) you add comma-separated responses that come from your fallback skill.

For example:

Fallback Phrases, Comma separated. OPTIONAL (Leave as empty string if undesired) FALLBACK_RESPONSES="I didn't quite catch that, I don't understand"