

Induction Process Using Chatbot

To digitalize Induction Process

Prerequisites

-For the project we need

-python 3.7

-Rasa Framework install by the following command

-pip install rasa

-MongoDB for Database

Getting Started

-For running the chatbot local machine do the following

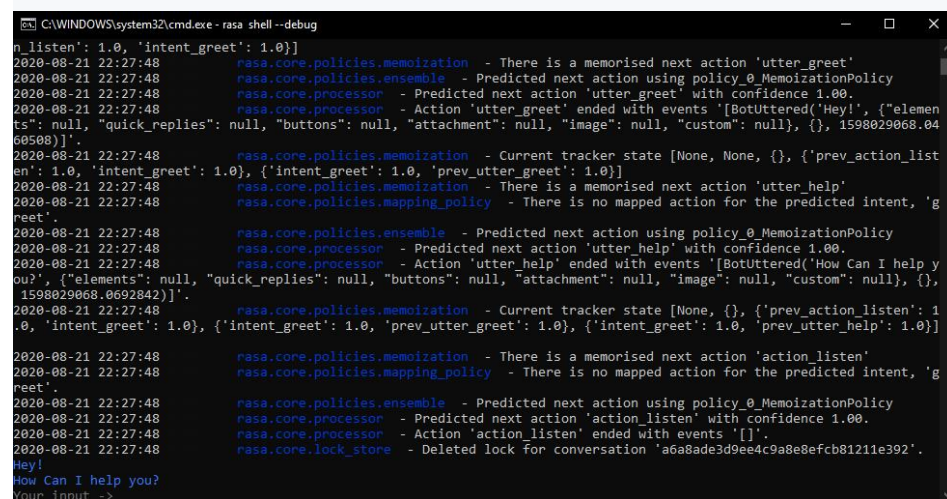
-Be in project directory

-Start action server by using the command

-rasa run actions

-Run the chatbot in debug mode by using the following command

-rasa shell --debug



```
C:\WINDOWS\system32\cmd.exe - rasa shell --debug
{"prev_action_listen": 1.0, "intent_greet": 1.0}]
2020-08-21 22:27:48 rasa.core.policies.memoization - There is a memorised next action 'utter_greet'
2020-08-21 22:27:48 rasa.core.policies.ensemble - Predicted next action using policy_0 MemoizationPolicy
2020-08-21 22:27:48 rasa.core.processor - Predicted next action 'utter_greet' with confidence 1.00.
2020-08-21 22:27:48 rasa.core.processor - Action 'utter_greet' ended with events '[BotUttered('Hey!', {'elements': null, "quick_replies": null, "buttons": null, "attachment": null, "image": null, "custom": null}, {}, 1598029068.0460508))]'
2020-08-21 22:27:48 rasa.core.policies.memoization - Current tracker state [None, None, {}, {'prev_action_listen': 1.0, 'intent_greet': 1.0}, {'intent_greet': 1.0, 'prev_utter_greet': 1.0}]
2020-08-21 22:27:48 rasa.core.policies.memoization - There is a memorised next action 'utter_help'
2020-08-21 22:27:48 rasa.core.policies.mapping_policy - There is no mapped action for the predicted intent, 'greet'.
2020-08-21 22:27:48 rasa.core.policies.ensemble - Predicted next action using policy_0 MemoizationPolicy
2020-08-21 22:27:48 rasa.core.processor - Predicted next action 'utter_help' with confidence 1.00.
2020-08-21 22:27:48 rasa.core.processor - Action 'utter_help' ended with events '[BotUttered('How Can I help you?', {'elements': null, "quick_replies": null, "buttons": null, "attachment": null, "image": null, "custom": null}, {}, 1598029068.0692842))]'
2020-08-21 22:27:48 rasa.core.policies.memoization - Current tracker state [None, {}, {'prev_action_listen': 1.0, 'intent_greet': 1.0}, {'intent_greet': 1.0, 'prev_utter_greet': 1.0}, {'intent_greet': 1.0, 'prev_utter_help': 1.0}]
2020-08-21 22:27:48 rasa.core.policies.memoization - There is a memorised next action 'action_listen'
2020-08-21 22:27:48 rasa.core.policies.mapping_policy - There is no mapped action for the predicted intent, 'greet'.
2020-08-21 22:27:48 rasa.core.policies.ensemble - Predicted next action using policy_0 MemoizationPolicy
2020-08-21 22:27:48 rasa.core.processor - Predicted next action 'action_listen' with confidence 1.00.
2020-08-21 22:27:48 rasa.core.processor - Action 'action_listen' ended with events '[...]'.
2020-08-21 22:27:48 rasa.core.lock_store - Deleted lock for conversation 'a6a8ade3d9ee4c9a8e8efcb81211e392'.
Hey!
How Can I help you?
Your input ->
```

ChatBot in debug mode

```
C:\WINDOWS\system32\cmd.exe - rasa run actions
Microsoft Windows [Version 10.0.18362.959]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\siddi>e:
E:\>cd InductionProcess
E:\InductionProcess>rasa run actions
2020-08-21 22:17:41      rasa_sdk.endpoint - Starting action endpoint server...
2020-08-21 22:17:42      rasa_sdk.executor - Registered function for 'action_displayResults'.
2020-08-21 22:17:42      rasa_sdk.endpoint - Action endpoint is up and running on http://localhost:5055
[{'entity': 'lookup', 'start': 11, 'end': 21, 'value': 'tcs events', 'extractor': 'DIEClassifier'}]
{'_id': ObjectId('5f37ee89bb3dfbd192cc2d43'), 'keyword': 'TCS Events', 'description': 'Events list that will happen at TCS.'}
```

Rasa Action Server

-For adding search keywords in lookup file(i.e. documents & video titles etc) update the lookup.txt file ./data/lookup

-Schema of the mongodb Document:

```
{
  "_id": { "bsonType": BSON.ObjectId() }
  "keyword": {"bsonType": "string"},
  "description":{"bsonType": "string"}
}
```

-Adding a document:

```
{
  "_id":{"$_oid":"5f37ef25bb3dfbd192cc2d45"},
  "keyword":"Search Keyword you want to add i.e. video/document
title",
  "description":"That video link"
}
```

-For adding Western Union Description update utter_displayAbouWU text in Domain.yml file

Installing

-To run the command line app follow the instructions

- Be in project directory
- Start action server by using the command
 - rasa run actions
- Run the chatbot in debug mode by using the following command
 - rasa shell --debug
- Start the Rasa Chatbot Server By running the following command
 - rasa run -m models --endpoints endpoints.yml --port 5002 --credentials credentials.yml(specify port where you want to run rasa server)
- Run Chatbot.py

```
C:\Users\siddi\AppData\Local\Programs\Python\Launcher\py.exe
hey
Hey!
How Can I help you?
search for TCS Events
Please wait...
I am displaying result for the keyword TCS Events
Events list that will happen at TCS.
Did that help you?
yes
ThankYou, Have a Nice day!!
Can you help me with TCS Internship
Please wait...
I am displaying result for the keyword TCS
Go through this link: https://www.tcs.com/tcs-ion-launches-remote-internships-product-to-connect-students-with-industry-mentors
Did that help you?
```

Chatbot.py

```
Command Prompt - rasa run -m models --endpoints endpoints.yml --port 5002 --credentials credentials.yml
Microsoft Windows [Version 10.0.18362.959]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\siddi>e:

E:\>cd InductionProcess

E:\InductionProcess>rasa run -m models --endpoints endpoints.yml --port 5002 --credentials credentials.yml
2020-08-21 22:40:07 root - Starting Rasa server on http://localhost:5002
2020-08-21 22:40:10.140269: E tensorflow/stream_executor/cuda/cuda_driver.cc:351] failed call to cuInit: UNKNOWN ERROR (
B03)
2020-08-21 22:40:32 root - Rasa server is up and running.
```

Rasa Server

```
C:\WINDOWS\system32\cmd.exe - rasa run actions
E:\>cd InductionProcess

E:\InductionProcess>rasa run actions
2020-08-21 22:17:41      rasa_sdk.endpoint - Starting action endpoint server...
2020-08-21 22:17:42      rasa_sdk.executor - Registered function for 'action_displayResults'.
2020-08-21 22:17:42      rasa_sdk.endpoint - Action endpoint is up and running on http://localhost:5055
[{'entity': 'lookup', 'start': 11, 'end': 21, 'value': 'tcs events', 'extractor': 'DIETClassifier'}]
{'_id': ObjectId('5f37ee89bb3dfbd192cc2d43'), 'keyword': 'TCS Events', 'description': 'Events list that will happen at TCS.'}
[{'entity': 'lookup', 'start': 11, 'end': 14, 'value': 'tcs', 'extractor': 'DIETClassifier'}]
{'_id': ObjectId('5f37ee89bb3dfbd192cc2d43'), 'keyword': 'TCS Events', 'description': 'Events list that will happen at TCS.'}
{'_id': ObjectId('5f37eeebbb3dfbd192cc2d44'), 'keyword': 'TCS EXOPS', 'description': 'These are the excellent opportunities provided by TCS to their freshers and employees'}
{'_id': ObjectId('5f37ef25bb3dfbd192cc2d45'), 'keyword': 'TCS Internships', 'description': 'Go through this link: https://www.tcs.com/tcs-ion-launches-remote-internships-product-to-connect-students-with-industry-mentors'}
[{'entity': 'lookup', 'start': 11, 'end': 21, 'value': 'tcs events', 'extractor': 'DIETClassifier'}]
{'_id': ObjectId('5f37ee89bb3dfbd192cc2d43'), 'keyword': 'TCS Events', 'description': 'Events list that will happen at TCS.'}
[{'entity': 'lookup', 'start': 11, 'end': 21, 'value': 'TCS Events', 'extractor': 'DIETClassifier'}]
{'_id': ObjectId('5f37ee89bb3dfbd192cc2d43'), 'keyword': 'TCS Events', 'description': 'Events list that will happen at TCS.'}
[{'entity': 'lookup', 'start': 21, 'end': 24, 'value': 'TCS', 'extractor': 'DIETClassifier'}]
{'_id': ObjectId('5f37ee89bb3dfbd192cc2d43'), 'keyword': 'TCS Events', 'description': 'Events list that will happen at TCS.'}
{'_id': ObjectId('5f37eeebbb3dfbd192cc2d44'), 'keyword': 'TCS EXOPS', 'description': 'These are the excellent opportunities provided by TCS to their freshers and employees'}
{'_id': ObjectId('5f37ef25bb3dfbd192cc2d45'), 'keyword': 'TCS Internships', 'description': 'Go through this link: https://www.tcs.com/tcs-ion-launches-remote-internships-product-to-connect-students-with-industry-mentors'}
```

Rasa Actions Server

Built With

- [Rasa](#) - The Chatbot Framework
- [MongoDB](#) - For Database