### PROJECT DOCUMENTATION

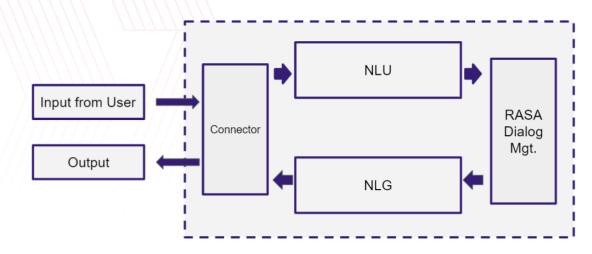
- 1. PROJECT TITLE: FAQ CHATBOT
- 2. PROJECT DESCRIPTION:

Chatbot that use RASA Open Source Framework and to be deployed on Slack with several objective;

- Provide assistance that is reachable anytime
- Solution that will give a reliable response in a timely manner
- A chatbot that is good in handling user and provide user's satisfaction
- 3. STATUS OF PROJECT: On-going
- 4. STEPS TO INSTALL:
  - a. Install RASA/ RASA X in Windows
    <a href="https://medium.com/co-learning-lounge/step-by-step-guide-to-install-rasa-x-in-windows-without-docker-85da8502bce">https://medium.com/co-learning-lounge/step-by-step-guide-to-install-rasa-x-in-windows-without-docker-85da8502bce</a>
  - b. How to run RASA project https://rasa.com/docs/rasa/command-line-interface/

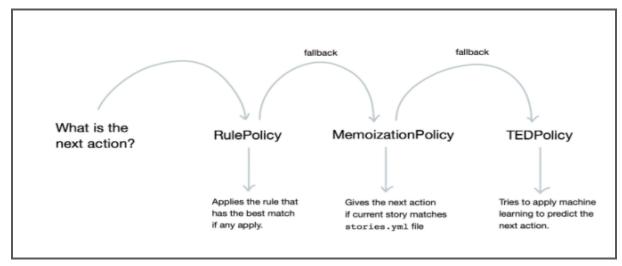
### METHODOLOGY:

a. Project flow chart, system diagram



b. Data used for training
 https://docs.google.com/document/d/12KeyG0JSpjqsEPbH3mRSex9y4bMGEG3
 o54L bwYcvBM/edit?ts=6050220a

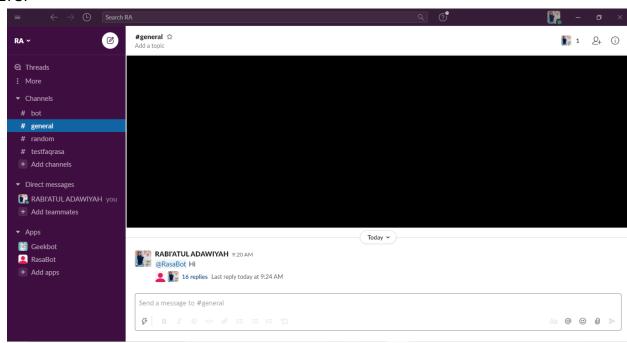
c. Framework features: Dialog Management

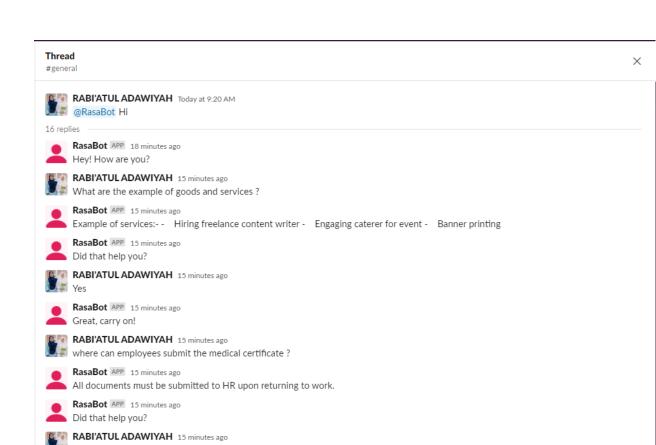


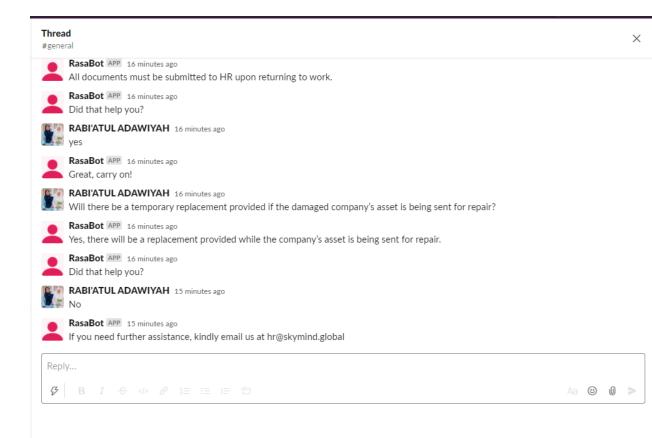
- Have 3 policy that works in hierarchy
  - 1- The Rule policy
  - 2- The Memoization policy
  - 3- Ted Policy

In brief, it is based on transformer architecture where the self-attention mechanism operates over the sequence of dialog turns. It is an improvement from the previous algorithm used, hierarchical recurrent neural network to encode multiple utterances in a dialog.

### 6. RESULTS:







## 7. PROJECT RESOURCES

ACTIVITY / WEEK		1	2	3	4	5	6	7
Chatbot Design	Initializes entities, intents, responses and parameters							
	Construct rules, stories & configurations							
	Training chatbot phrases and responses in intents							
Chatbot Deployment	Deploy chatbot to Slack							
	Making rich responses to response							
(Chathot Lesting and Validation )	Consulting an expert to verify chatbot functionality							
	Test cases are used to evaluate users' responses							П
Documentation	Preparing a report as a guide to understanding the chatbot							

- 8. RELEVANT DEADLINES: 25 June 2021
- 9. LINKS TO GITHUB: https://github.com/adawiyahjabar/RASA-FAQ-Chatbot
- 10. REFERENCES

Tutorial on how to connect RASA Chatbot to Slack <a href="https://www.youtube.com/watch?v=2Qu4LCvB4bs">https://www.youtube.com/watch?v=2Qu4LCvB4bs</a> <a href="https://www.youtube.com/watch?v=P3ofYHwRi80">https://www.youtube.com/watch?v=P3ofYHwRi80</a>

# 11. SETUP STEP Run RASA:

### Run ngrok:

## C:\PYTHON\Scripts>ngrok http 5005

```
ngrok by @inconshreveable
                              RABI'ATUL ADAWIYAH AB JABAR (Plan: Free)
Account
Version
                              2.3.40
Region
                              United States (us)
Web Interface
                              http://127.0.0.1:4040
Forwarding
                              http://9f5add53453d.ngrok.io -> http://localhost:5005
                              https://9f5add53453d.ngrok.io -> http://localhost:5005
Forwarding
                                                              p50
Connections
                              ttl
                                              rt1
                                                      rt5
                                                                      p90
                                                                      0.00
                              0
                                              0.00
                                                      0.00
                                                              0.00
```

Reference link: <a href="https://www.youtube.com/watch?v=2Qu4LCvB4bs">https://www.youtube.com/watch?v=2Qu4LCvB4bs</a>

#### 12. OUTSTANDING TASK

- 1) Set reminder for bot to end session if nothing was asked in few mins
- 2) Save unanswered questions for training purposes
- 3) If the user answers 'no' for "am I answering the question?", the question for training purposes
- 4) Add and train all data based on Nexent FAQ
- 5) Add more training data for each question