Project Development Phase Model Performance Test

Date	10 November 2022	
Team ID	PNT2022TMID53170	
Project Name	Project - AI based Discourse for Banking	
	Industry	
Maximum Marks	10 Marks	

Model Performance Testing:

- This Al-based project involves implementation of a Chatbot.
- Thus, conventional testing metrics may not be applicable and so the model has been tested using performance metrics specific for a Chatbot.

S.No.	Parameter	Values	Screenshot
1.	Model Summary	 The model is a Natural Language Proceeding model of the IBM Watson Assistant. The goals that the user wants to achieve using the Chatbot are termed as "Actions" in Watson Assistant. The following Actions have been implemented (The Chatbot can answer limited number of queries pertaining to these actions): Greetings Current Account Savings Account Queries (general banking queries) Netbanking 	<see below=""></see>
2.	Performance Metrics	The following metrics have been used to analyze the performance of the Chatbot: • CSAT (Customer Satisfaction) Score: The Chatbot was tested with 22 customers out of which 17 were satisfactory.	<see below=""></see>

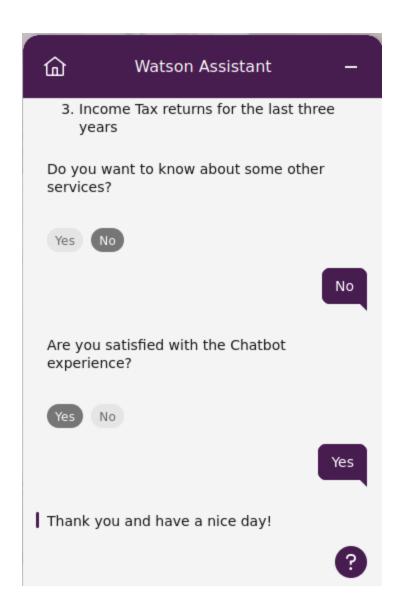
		Therefore, CSAT Score = 81% Fallback Rate: A fallback is a case where the Chatbot is unable to understand the query of the user and gives a canned response designed by the developer (eg: "Apologies. I am unable to help you out with this. Please contact our customer support). This number should be as low as possible. This was manually calculated to be 40%. (Automation of calculation of this metric will be done in the near future)	
3.	Confidence Score (Only	future) NA	NA
	Yolo Projects)		

Screenshots

• Actions created

Name	Last edited	Examples Count	Status
Index	2 days ago	5	•
Greetings	4 days ago	4	•
Loan	8 days ago	4	•
Sample	8 days ago	1	•
Current Account	8 days ago	4	•
Greetings	8 days ago	4	•
Savings	10 days ago	1	•
Net Banking	8 days ago	2	•
Query	10 days ago	1	•
End greeting	10 days ago	3	•
End	a day ago	2	•
Current Account	4 days ago	1	Ø

- Feedback incorporation (to calculate CSAT Score)
 - o Getting feedback from user



• The user feedback is stored in a binary text file which can be read using a python script to obtain the CSAT score

```
(base) gokulakrishnan@gokulakrishnan-ThinkPad-E14:
ode$ python3 read_binary.py
Total Interactions = 22
Satifisfied = 18
CSAT = 0.81818181818182
```

References

• https://www.kommunicate.io/blog/metrics-for-chatbot-analytics/