



### **Project Report**

Name of the Project :Chatbot to Shop for essentials during pandemic using

Watson Assistant

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#### **Introduction:**

A chatbot is an artificial intelligence (AI) software that can simulate a conversation (or a chat) with a user in natural language through messaging applications, websites, mobile apps or through the telephone. Why are chatbots important?

A chatbot is often described as one of the most advanced and promising expressions of interaction between humans and machines. However, from a technological point of view, a chatbot only represents the natural evolution of a Question Answering system leveraging Natural Language Processing (NLP). Formulating responses to questions in natural language is one of the most typical Examples of Natural Language Processing applied in various enterprises' end-use applications.

The current pandemic has given rise to so many issues. There is a need for a chatbot in almost anything. Recently this has gien rise to lockdown due to which essential services are effected.

## **Project Scope:**

This project is intented to develop a chatbot which shows the list of essentials available. The chatbot is trained to greet the humans using it. It then shows the list of available items. The chatbot also shows the Special discounts and offers available. Not onlt this but the chatbot is also able to display cost of items, payment options. Lastly the bot is also able to take the order.

## **Literature Survey:**

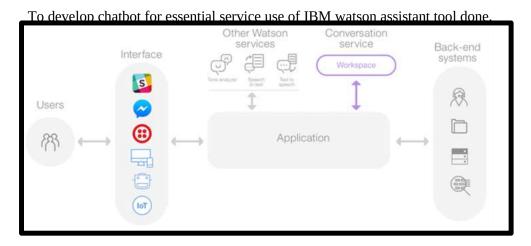
Following literature survey is done and papers are reviewed:

[1] The paper A Survey on Chatbot Implementation in Customer Service Industry through Deep Neural Networks, presents a survey on existing chatbots and techniques applied into it. It discusses the similarities, differences and limitations of the existing chatbots; This paper also presented why current chatbot models fails to take into account when generating responses and how this affects the quality conversation.

[2]The paper ,A chatbot assistant for writing good quality technical reports ,describes a solution to help both students and supervisors detecting basic quality errors in FDP reports. Based on a chatbot front-end called Ikastenbot, students can upload their reports while they are writing them and spot, before publication, possible errors in spelling and grammar, text and images reuse, and lack of proper referencing. We applied the techniques described on the memories of our university FDP repository. Results show that Ikastenbot is able to detect errors in almost every report. The source code of our solution has been published under an open-source license

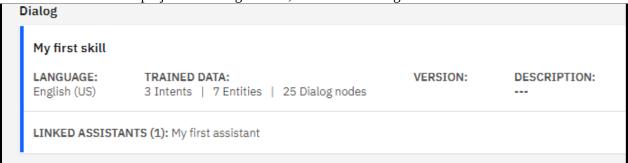
# **Project Implementation and working:**

Services used:



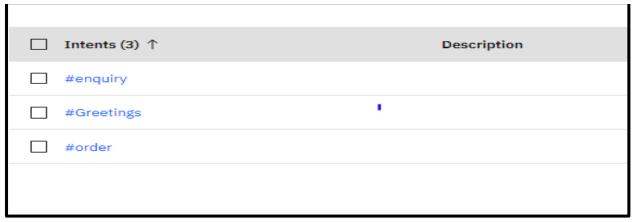
## **Building Blocks of the Chatbot:**

✓ For the current project following entities, Intents and dialogs are created

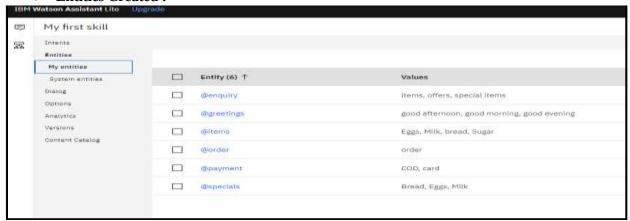


Screenshots and Results:

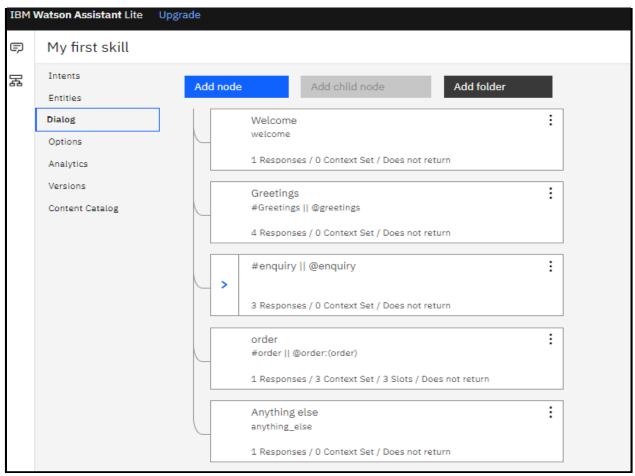
✓ Intents Created :



✓ Entities Created :



✓ Dialog created :



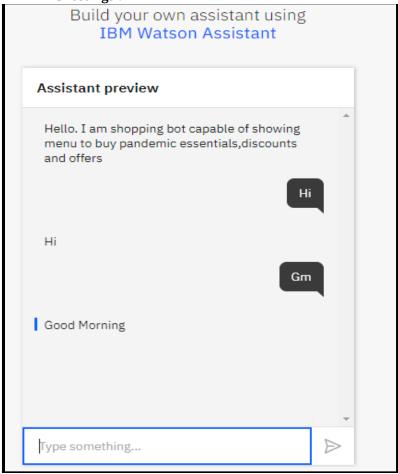
### Screenshots:

### ✓ Creation of Preview Link

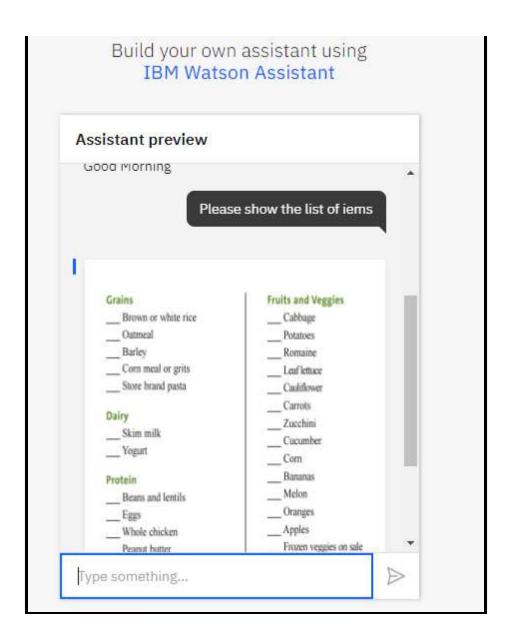


## Other Working Screenshots:

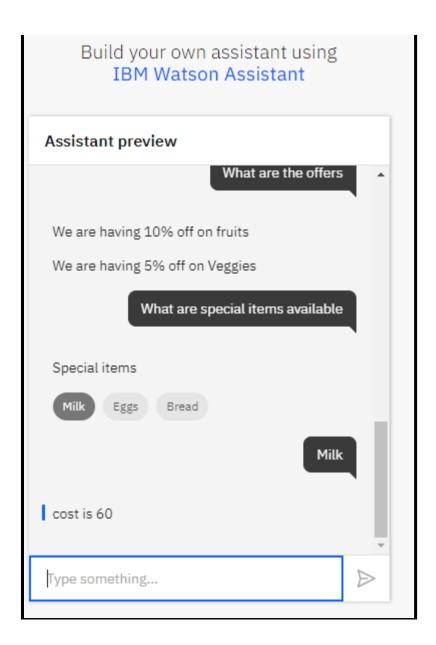
✓ Greetings:



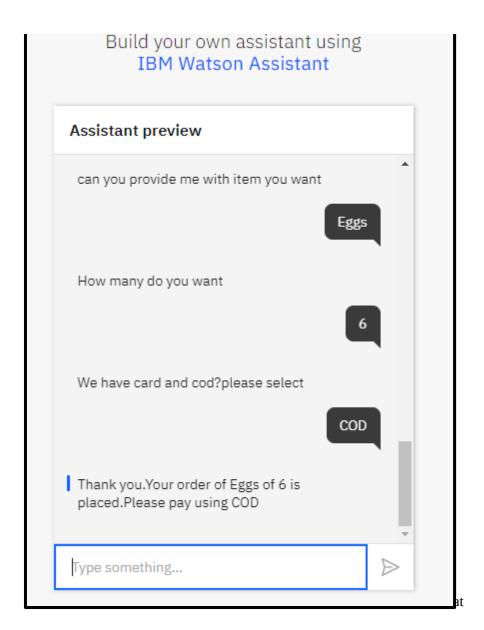
List of Items,Offers discounts and Special Items



Offers:



## Placing Order:



**Conclusion and Future Scope**: The chatbot can be used to order for essentials like milk bread and others during pandemic.IBM watson assistant is a nice tool to create chatbots. It provied easy integration too. In future we can generate bills and give to user.