- J.N.Swathi
- 1.Introduction

1.1. Overview

Online shopping plays a great role in the modern business environment. The best option available for the customers in pandemic situations is to use chat bots for online shopping. To support customers in a better way, online shopping bot has opened a door of opportunity and advantage to the firms and customers for having a feel of buying items in a better way. The bot helps to introduce the online shop by listing the items available; it also shows the price of the items and takes order from the customer. If the customer wishes to see the items, the bot also provides the images of the items. This facility ensures the customer sees the products live and gives request to buy items.

1.2 Purpose

The online shop bot can help the customer to see the list of items available, images of the images, price of the items and also accepts order for the items. The purpose of this bot is to save valuable time and money of travel.

2 Literature Survey

In this section, we will discuss the existing solutions available for online shopping and the proposed solution to overcome the limitations.

2.1 Existing Problems and Solutions

In the past decade, people use internet as a daily service to access emails, perform online tasks, do shopping, etc. Naturally, people have widely started using internet at shopper stops too. This showed their willingness to do online shopping. This brings huge responsibility on the shop owners to keep up the buyer's faith on the particular website. The most important points that affect the customer attitude towards online shopping are customer convenience, collection of information, social contact, and customer diversity. There are several websites available currently to handle online shopping like Amazon, FlipKart, Big Bazzar, etc. Kotler, (2003) has described the Customer buying method in several sequential steps namely learning, information processing, information searching, evaluating the alternatives, decision making and post purchase behavior. When using such websites usability and trust also plays a major role and these issues to be handled carefully. With all these facilities available, still we could find some gap in existing website based online shopping solutions where the user has limited freedom to communicate or ask doubts regarding items and get a feel of having a discussion with shoppers. This limitation can be overcome in using chat bot for online shopping.

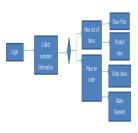
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2.2 Proposed Solution

In recent years, many organizations have shown tremendous interest in developing chat bots for online shopping. This chat bots help customers to handle their queries and to provide information on any kind of items requested. The willingness of the customers to use shopping bot also increased enormously due to the interest of shopping using internet in pandemic times.

3. Theoretical Analysis

3.1 Block diagram



3.2 Hardware /software requirements

Processor: Intel i5Memory: 16GB

• System Type: 64 Bit Operating system

IBM Watson AssistantNode RED UI Generator

4. Experimental Investigations

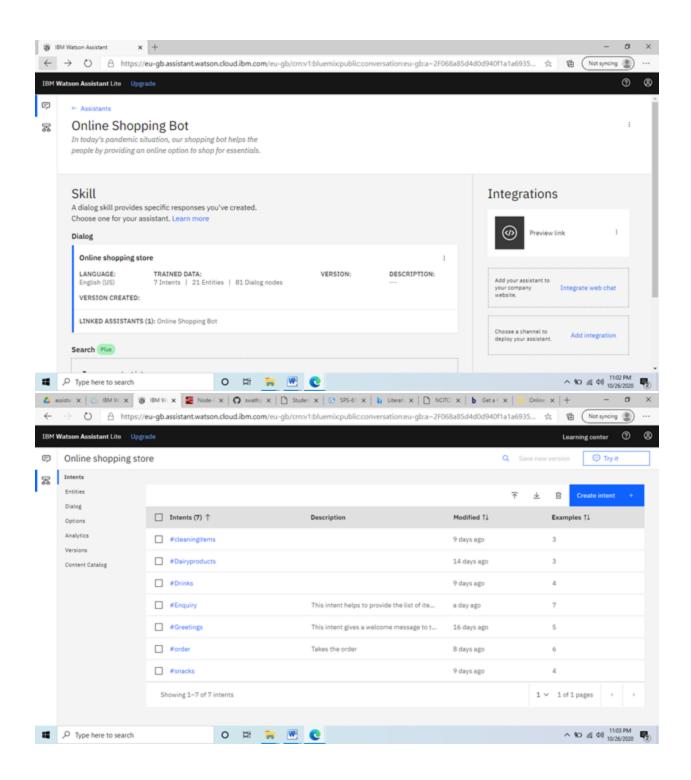
The online shopping bot is developed using IBM Watson. The intents, entities and dialogs are used using the same platform. Once the system entities and relevant context variable are generated, the json file can downloaded.

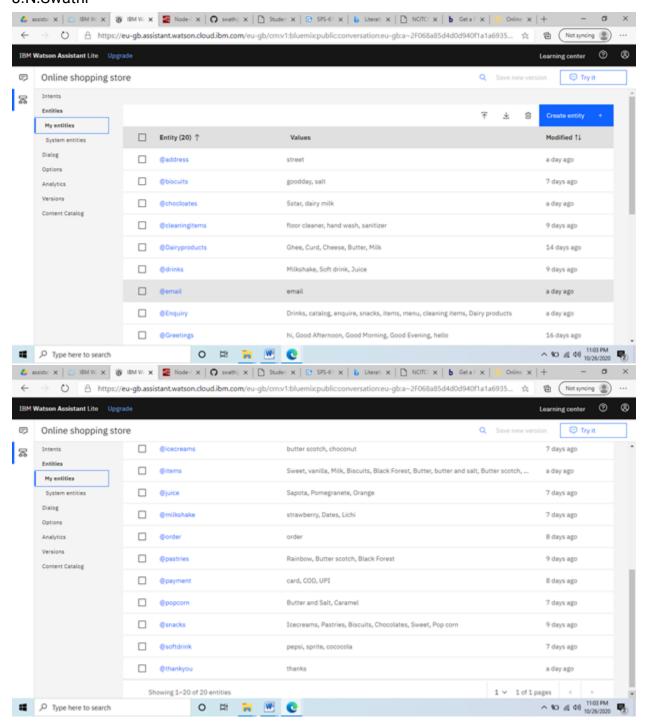
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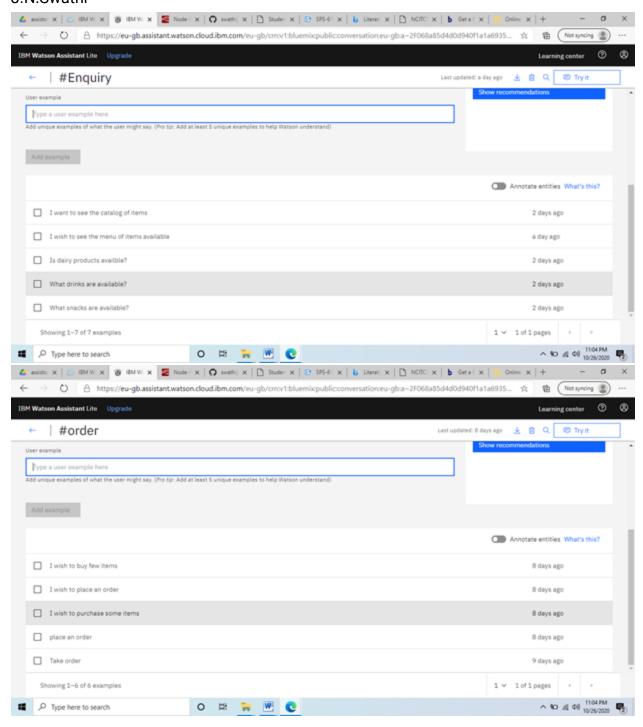
5. Flow chart

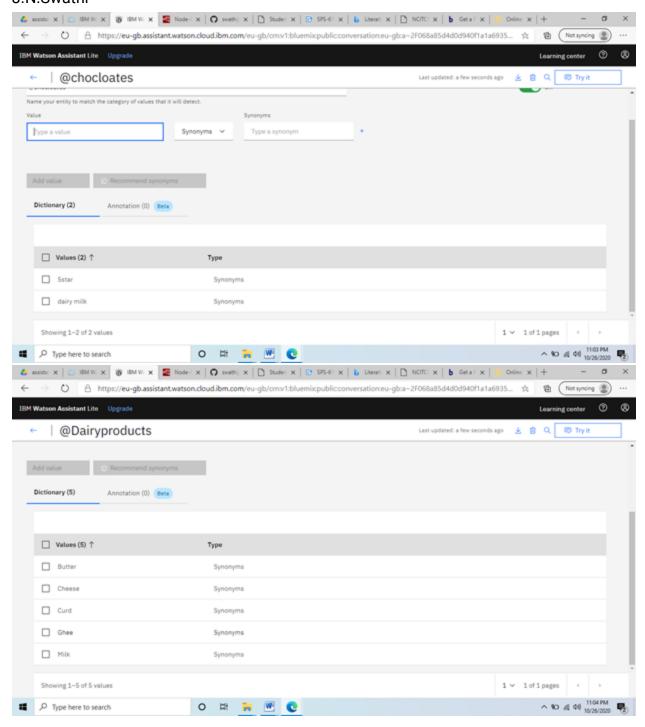


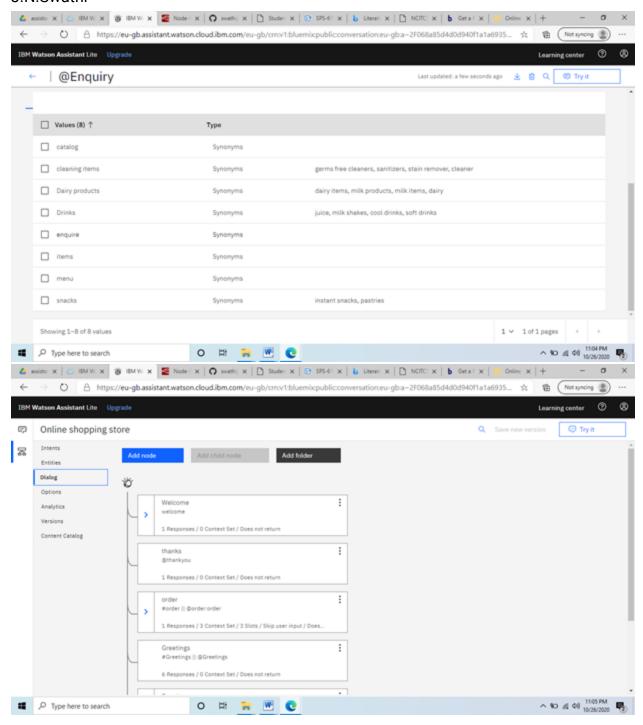
6. Result

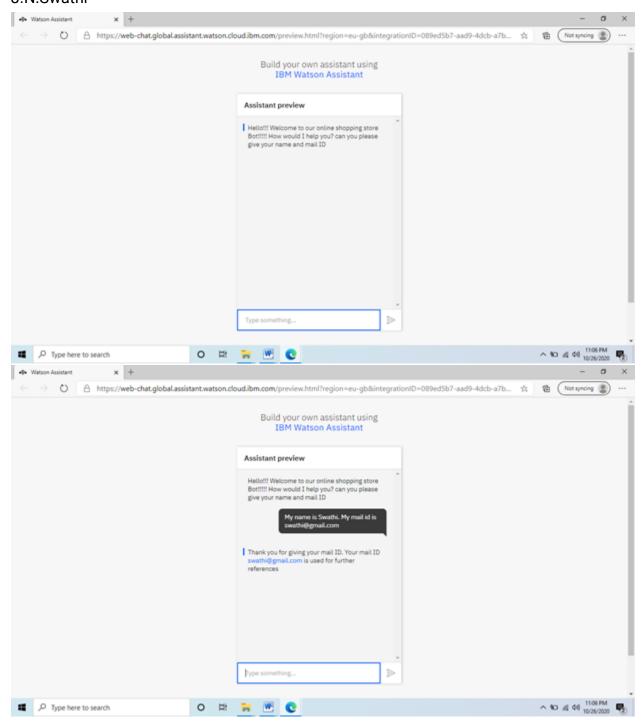


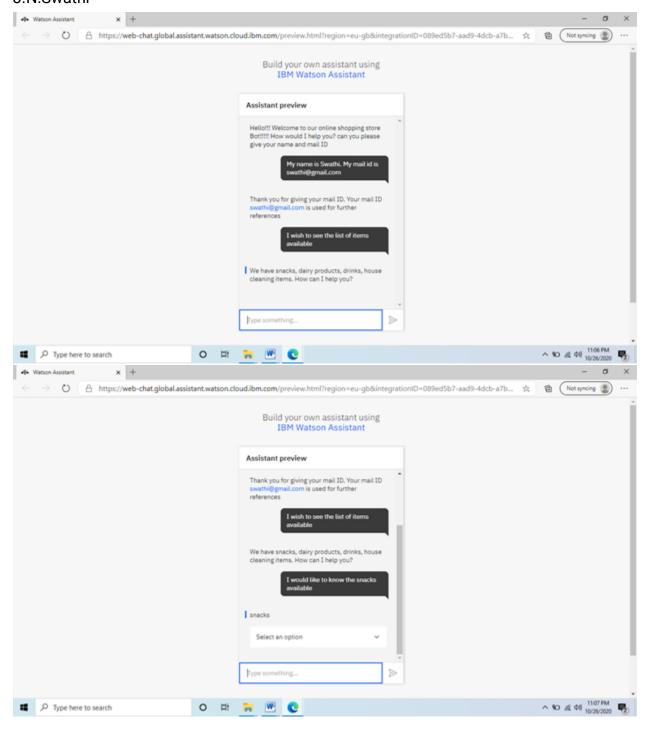


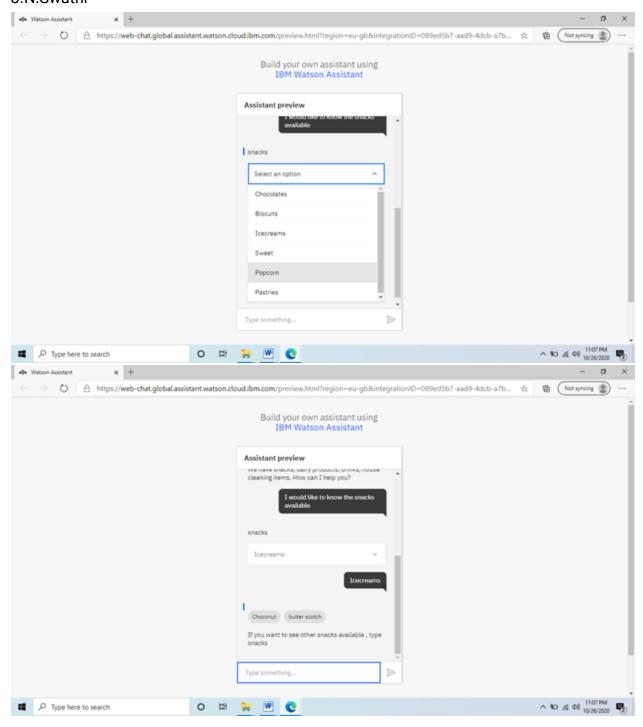


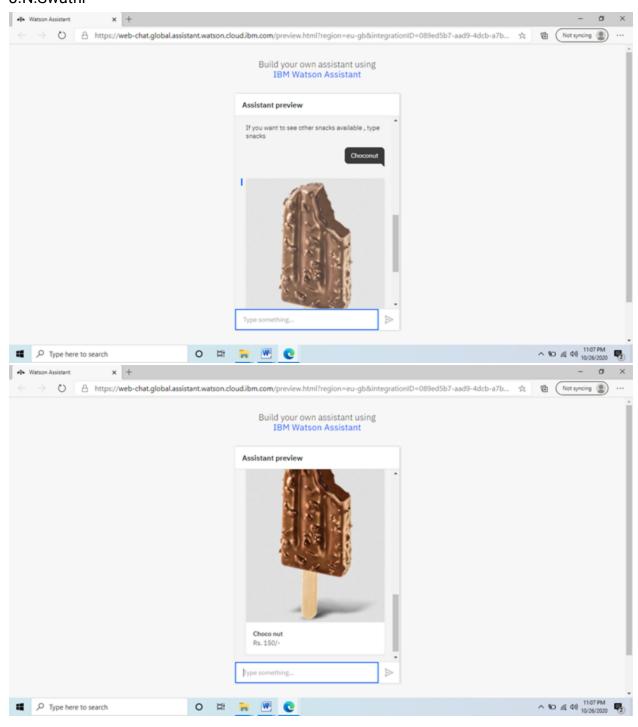


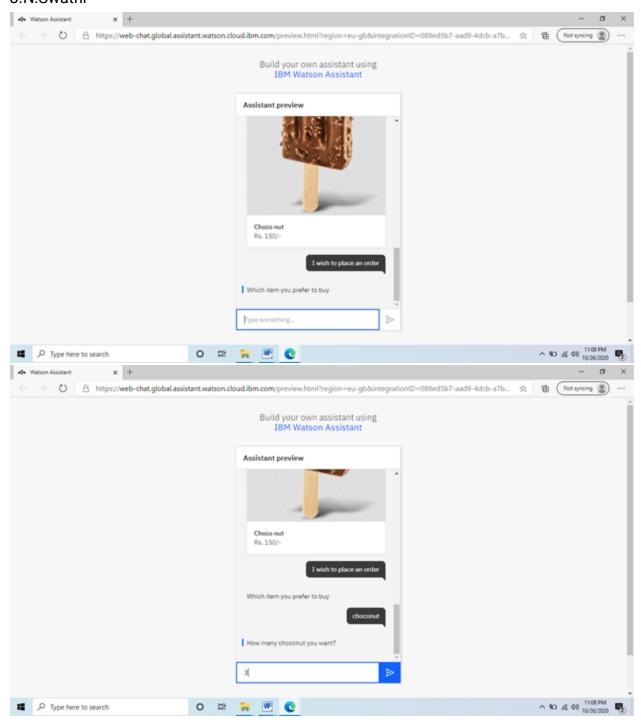


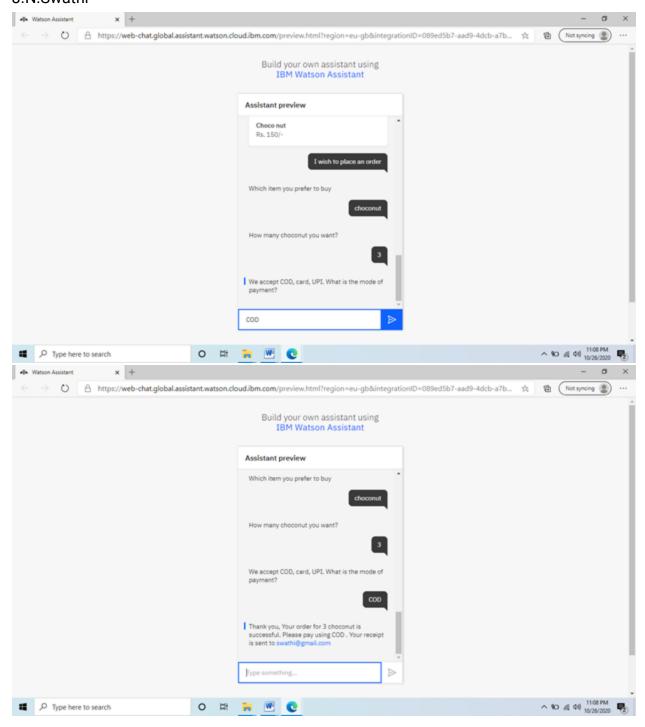


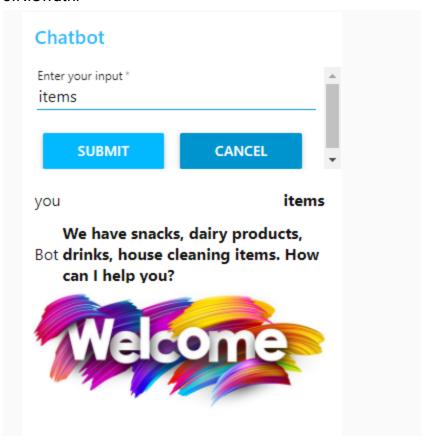


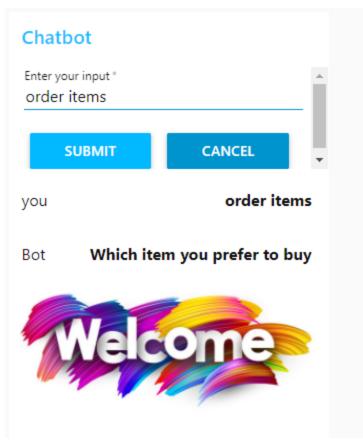


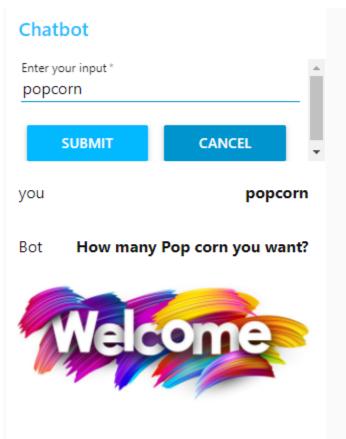


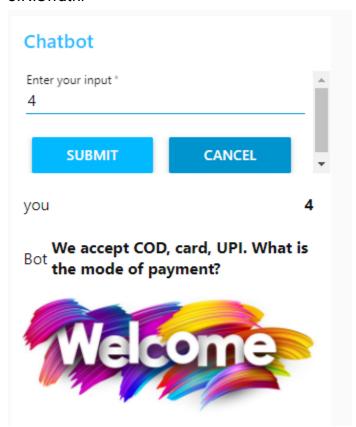




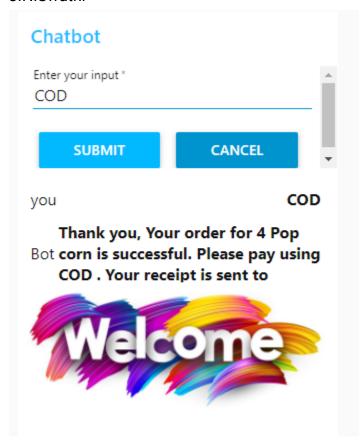








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7. Advantages and Disadvantages

- 1. Online shopping bot helps to see the list of items available for purchase.
- 2. The shopping bot provides the details of the items requested by giving its image and cost.
- 3. The shopping bot accepts the mail id to send the order receipt.
- 4. The shopping bot accepts the order by asking the item, quantity and mode of payment.
- 5. The shopping bot is interactive.
- 6. The shopping bot is simple.
- 7. The shopping bot is Usable.
- 8. The shopping bot is user friendly.
- 9. The shopping bot is available 24/7
- 10. The shopping bot is reliable.

Disadvantages

1. The shopping bot is currently not accepting address in chat bot.

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2. After receiving the receipt, the other interface like email to be used to share the address to the shopper.

8. Applications

The online shopping bot can be used for advertisement, recommendation and taking order from the customer when the customer is live in chat bot with the shopper.

9. Conclusion

The online shopping bot is the most useful feature for online shoppers to have a satisfied purchase. With all the possible features embedded in bot it can help the customer to have a successful and satisfactory shopping with less money and time.

10. Future Scope

- a. The shopping bot can be extended to get reviews
- b. The shopping bot can be added with features like showing offers.
- c. The shopping bot can give recommendations by showing the associated items

11. Bibliography

- 1. Kotler, P., "Marketing Management," 11th edition, Prentice-Hall International Editions, Englewood Cliffs, New Jersey, 2003.
- 2. https://web.wechat.com/
- 3. IBM Guru cool resources
- 4. Day 2 Youtube link: https://youtu.be/tUBJZfnxeTw

Appendix

Preview link:

https://web-chat.global.assistant.watson.cloud.ibm.com/preview.html?region=eu-gb&integrationID=089ed5b7-aad9-4dcb-a7b0-e5346d9c4ca2&serviceInstancelD=1f473695-0000-432a-a37d-723cc7470a89

Bot json file

https://drive.google.com/file/d/1HXnxgZNsosjCE_3xIJWsK_wA6UvNtst0/view?usp=sharing