Making a Travel Chatbot of a Single Place

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Abstract

A chatbot is a computer application that interacts with users conversing in a natural language in a similar way to imitate a human travel agent. Successful implementation of a chatbot system can analyze user preferences and predict collective intelligence. In most cases, it can provide better user-centric recommendations. Hence, the chatbot is becoming an integral part of future consumer services. This paper is an implementation of our proposed work travel Chatbot on Goa visit. Example: If anyone wants to visit Goa, how this travel Chatbot minimizes the user efforts, all the information related to Goa including hotels to stay, food, bookings, greatest offers, can all the bookings can be made using 100% safe sites that will not be harmful to user's device and privacy concerns.

Keywords: - *Chatbot, Verified, Goa visit, Safe transaction*

INTRODUCTION

To design and implement natural and intuitive interaction modalities is a primary research field in the Human-Computer Interaction Domain. Systems that can interact with the user in their natural language are being researched vigorously at present [1]. The chatbot simulates a real-world travel agent that achieves some result by conversing with the machine in a dialogic fashion using natural language [2].

The travel industry is a highly consumer-centric industry where the saying 'Consumer is the King' makes a lot of sense. It is crucial to keep the customer happy and satisfied. With this changing technology and customer demands, the only way to retain and acquire new customers is by satisfying the customer demands and meeting the technology needs. These days you will see a lot of travel businesses investing in digitizing the business. It has become a need to sustain oneself in the industry.

This travel chatbot is on Goa. If anyone wants to visit Goa how this travel chatbot minimizes the user efforts of referring different sites to different application and if you visit various sites, it can be harmful to devices, detrimental to the confidentiality of your bank accounts. This chatbot will help you with 100% verified sites where you can make bookings and visit the sites without allowing cookies to peek into your phone/device.

PROBLEM STATEMENT

Making a Travel Chatbot of a single place:

Some chatbots exist, but a travel Chatbot gives all the information on one page so that the user need not visit or search for the right platform to book tickets. No bank details will be shared. There are some sites built for online train/flight booking. Still, those sites are made of HTML, and those sites are not much trustworthy. Hence, the bot gives the verified links to the users. The sites where the transaction is safe & apps for the transaction the apps take the permission to peek into the devices with this bot user can directly do transactions and logout the information from the site for the safer purposes.
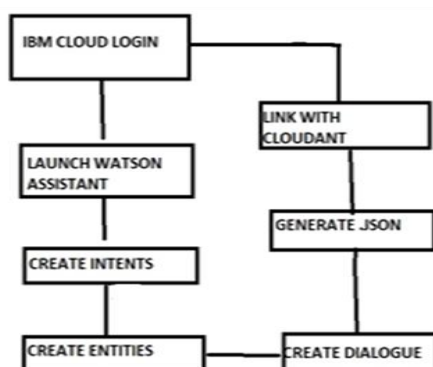
COMPARISON OF EXISTING WORK AND PROPOSED WORK

Table: 1 Comparison of existing Work and Proposed work

Existing work	Proposed work
It is not user friendly	It is user friendly
It doesn't provide much privacy	It provides maximum privacy
It is doesn't provide reliable sites for booking	It provides 100% verified sites

PROPOSED WORK

In Paper travel chatbot is on Goa if anyone wants to visit Goa how this travel chatbot minimizes the user efforts.

Figure: 1 Propose work

This diagram shows that:

- First, create an IBM account
- Then launch Watson assistant
- Create intents
- Create entities
- Create dialogue
- Generate .json code
- Load the deployment in cloud

WORKING FLOW

This paper will see how to construct/build the chatbot and create an IBM cloud account. Then we made a service Watson assistant and launched the Watson assistant, created a new skill.

Step: 1

a) The skill was named Goathan. We created new intent named greet, then created an entity named greet and went to dialogue flow and created a new node named greet and there set the assistant response as hi hello hey. Then we created new intent named asking. Then created a new entity named asking, went to dialogue flow and created a new node and called asking, set the main places to visit in Goa and created new intent called images.

Step: 2

a) Then created a new entity named images, went to dialogue flow, created a new node called images, and set all the famous places with images.

b) We created new intent named hotel and created a new entity named hotel.

c) We went to dialogue flow, created a new node named hotel, and set the most famous hotel names with their images.

Step: 3

We created new intent named low rate hotels; created a new entity called low rate hotels. Then we went to dialogue flow and created a new node named low rate hotels and set the best low rate hotels with images.

Step: 4

a) We created new intent named restaurant

b) A new entity named restaurant.

c) Then we went to dialogue flow, created a new node named restaurant, and set the best restaurant along with images.

Step: 5

a) Then we created new intent named hotels booking and a new entity named hotels booking.

b) Then we went to dialogue flow and created a new node named hotels booking and set the best hotels that bring excellent offers on hotel booking in Goa along with images and a contact number.
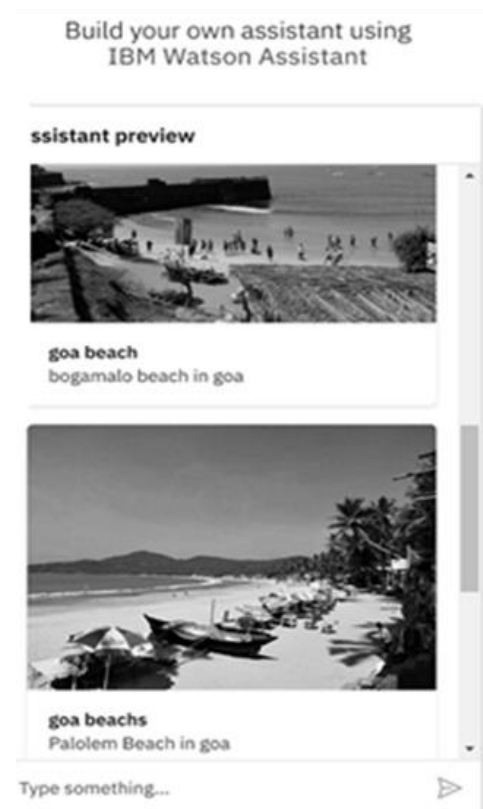
Step: 6

a) We created new intent named online hotel booking, created a new entity called online hotel booking.

b) Then we went to dialogue flow and created a new node named online hotel booking and set the best Sites to book the hotels online, created new intent called online train booking.
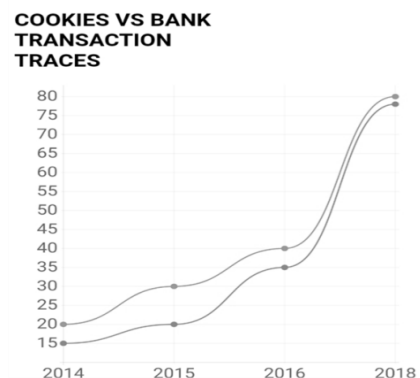
Step: 7

1. Then we created a new entity named online train booking

2. Then we went to dialogue flow and created a new node called online train booking and set the best Sites to book the train online.

Step: 8

a) Created new intent named DJ night online booking

b) Then we created a new entity named DJ night online booking

c) Then we went to dialogue flow and created a new node called DJ night online booking and set the best Sites to book night booking online
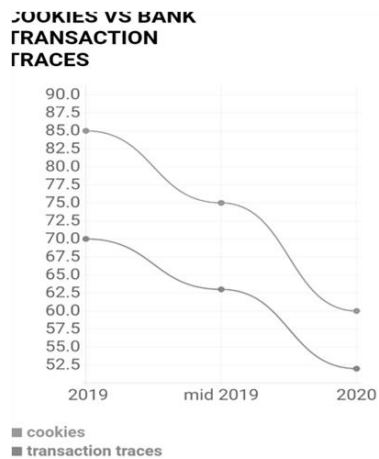
IMPLEMENTATION

Figure: 2 Screen-short of Chatbot

Existing work graph:

Figure: 3 Existing work graph

Proposed work graph:

Figure: 4 Proposed work graph

This graph shows how the sites that make online booking trace user's bank account details and cookies are the main factor on these sites that help the hacker peek into bank accounts. The travel bot will help reduce the peeking into the user's bank account.

CONCLUSIONS

In this paper, we will help people to have a safe transaction and a safe conversation. As we know, there are apps to book and do online transactions. Still, the apps take the permission from the user, and apps are like if the user doesn't allow to the T & C then the app won't run and there are many privacy concerns in doing online transaction the bot will provide the verified sites to book the hotels/flights/trains.

REFERENCES

1. Intelligent travel chatbot for predictive recommendation in echo platform Ashay Argal, Siddharth Gupta, Ajay Modi, Pratik Pandey, Simon Shim, Chang Choo(2018)

2. Refilling Knowledge and Intention to Use Travel Chatbot: Indonesian Context Johan Setiawan, Elfindah Princes(2020)

3. Pharmabroad: A Companion Chatbot for Identifying Pharmaceutical Products When Traveling Abroad Boris Ruf, Matteo Sammarco, Jonathan Aigrain, Marcin Detyniecki (2020)

4. Ultimate transformation: How will automation technologies disrupt the travel, tourism and hospitality industries Stanislav Hristov Ivanov (2019)

5. Predicting the intentions to use chatbots for travel and tourism Santiago Melián-González, Desiderio Gutiérrez-Taño, Jacques Bulchand-Gidumal(2019)