ABSTRACT

We have created a travel chatbot named Travelly. It allows the user to input their requirements and processes it to provide information and suggestions to the user at their convenience.

Services offered by Travelly aims to assists users to plan a trip and make reservations for an exciting and memorable holiday. Travelly responds quickly by taking a request and displaying the user with their desired output display and along with resultant audio.

The audio feature in Travelly makes it more accessible for a large and diverse population.

GUI, one of the many extensive libraries of python has been used to build Travelly.

TABLE OF CONTENTS

INTRODUCTION

A chatbot is a quick virtual-based processor that allows human conversations. They are also known as digital assistants that understand human needs. Bots interpret the user's input, process their requests, and give significant answers. They communicate through voice as well as text and can be stationed across the web, and across a wide range of applications, such as travel sites, businesses, etc.

Travelly works by examining and identifying the aim of the user's request to extract the appropriate operations required. The scope of this chatbot is to assist users with their travel experience. Travelly provides extensive details about travel, holidays, and transport. It uses voice to implement and deliver the information requested by the user. It is extremely efficient as it is quick and user-friendly. Hence, no complex knowledge of programming is required to interact with the bot. Travelly reduces the overall compile-time, hence making it more productive.

The suite of services offered by Travelly consist of the best destinations for a wide array of activities, hotel or resort booking, flight and train booking arrangements. Services are provided at one distinct place resulting in an easier and more accessible product. Users are not required to refer to several sites and services to plan their holiday. Therefore, the work is effective and less cumbersome, executed by simple inputs. It can help you on it's website and can take you to a different site that can assists the user too.

One of the most important needs for a chatbot is that it allows and creates a good user experience. It provides quite a large platform for service integration and management by designing a universal channel to carry out these needs to a user.

Bots are always available to engage customers with immediate answers to the common questions asked by them. The most promising area of using chatbots is 24-hour customer service.

DESIGN/IMPLEMENTATION: CODE

```
import pyttsx3

import webbrowser

import time

now=time.ctime()

from tkinter import*

root=Tk()


def send():

    send="You->" + e.get()

    engine=pyttsx3.init()

    txt.insert(END, "\n"+send)



     if(e.get()=="hello"):

            engine.say("hey,how can I help you?")

            txt.insert(END,"\n"+"Travelly->Hi")

            engine.runAndWait()

      elif(e.get()=="hi"):

             engine.say("hey,how can i help you?")
```

```
            engine.runAndWait()
            txt.insert(END,"\n"+"Travelly->hey,how can I help you?")
        elif(e.get()=="how are you"):
            engine.say("I am fine,how can I help you?")
            engine.runAndWait()
            txt.insert(END,"\n"+"Travelly->I am fine,how can I help you?")
        elif(e.get()=="how to have a good vacation"):
            engine.say("I have helped people have an amazing time,let's get started. What can i show you-activities,flights,hotels,cuisines?")
            engine.runAndWait()
            txt.insert(END,"\n"+"Travelly->I have helped people have an amazing time,let's get started. What can i show you- activities,flights,hotels,cuisines?")
        elif(e.get()=="what can you do"):
            engine.say("I can provide you with flight information, hotels, cuisine and activities. Have an exciting holiday.")
            engine.runAndWait()
            txt.insert(END,"\n"+"Travelly->I can provide you with flight information, hotels, cuisine and activities. Have an exciting holiday.")
        elif(e.get()=="what is your name"):
            engine.say("my name is Travelly")
            engine.runAndWait()
            txt.insert(END,"\n"+"Travelly->my name is Travelly")
```

```
        elif(e.get()=="what are the activities present"):
            engine.say("hiking, skydiving, scuba diving, camel rides, safari, rafting and kayaking, skiing")
            engine.runAndWait()
            txt.insert(END,"\n"+"Travelly->hiking,skydiving,scuba diving,camel rides,safari,rafting and kayaking,skiing")
        elif(e.get()=="what are the activities"):
            engine.say("hiking, skydiving, scuba diving, camel rides, safari, rafting and kayaking, skiing")
            engine.runAndWait()
            txt.insert(END,"\n"+"Travelly->hiking,skydiving,scuba diving,camel rides,safari,rafting and kayaking,skiing")
        elif(e.get()=="activities"):
            engine.say("hiking, skydiving, scuba diving, camel rides, safari, rafting and kayaking, skiing")
            engine.runAndWait()
            txt.insert(END,"\n"+"Travelly->hiking,skydiving,scuba diving,camel rides,safari, rafting and kayaking,skiing")
        elif(e.get()=="hiking"):
            engine.say("Manali, Garhwal, Mussoorie, Darjeeling, Ladakh, Araku Valley, Munnar, Ooty, Kodaikanal")
            engine.runAndWait()
```

```
        txt.insert(END,"\n"+"Travelly->Manali,Garhwal,Mussoorie,Darjeeling,Ladakh,Araku Valley,Munnar,Ooty,Kodaikanal")

    elif(e.get()=="safari"):

        engine.say("Ranthambore-Rajasthan, Hemis-Ladakh, Jim Corbett-Uttarakhand, Bandhavgarh-Madhya Pradesh, Sasan Gir-Gujarat, Kaziranga-Assam, Periyar-Kerala, Sunderbans-West Bengal, Maharashtra")

        engine.runAndWait()

        txt.insert(END,"\n"+"Travelly->Ranthambore-Rajasthan,Hemis-Ladakh,Jim Corbett-Uttarakhand,Bandhavgarh-Madhya Pradesh,Sasan Gir-Gujarat,Kaziranga-Assam,Periyar-Kerala,Sunderbans-West Bengal,Maharashtra")

    elif(e.get()=="skydiving"):

        engine.say("Goa,Deesa-Gujarat, Pondicherry-Tamil Nadu, Aamby Valley-Maharashtra, Bir Billing-Himachal Pradesh")

        engine.runAndWait()

        txt.insert(END,"\n"+"Travelly->Goa,Deesa-Gujarat,Pondicherry-Tamil Nadu,Aamby Valley-Maharashtra,Bir Billing-Himachal Pradesh")

    elif(e.get()=="air activities"):

        engine.say("Goa,Deesa-Gujarat, Pondicherry-Tamil Nadu, Aamby Valley-Maharashtra, Bir Billing-Himachal Pradesh")

        engine.runAndWait()

        txt.insert(END,"\n"+"Travelly->Goa,Deesa-Gujarat,Pondicherry-Tamil Nadu,Aamby Valley-Maharashtra,Bir Billing-Himachal Pradesh")

    elif(e.get()=="scuba diving"):
```

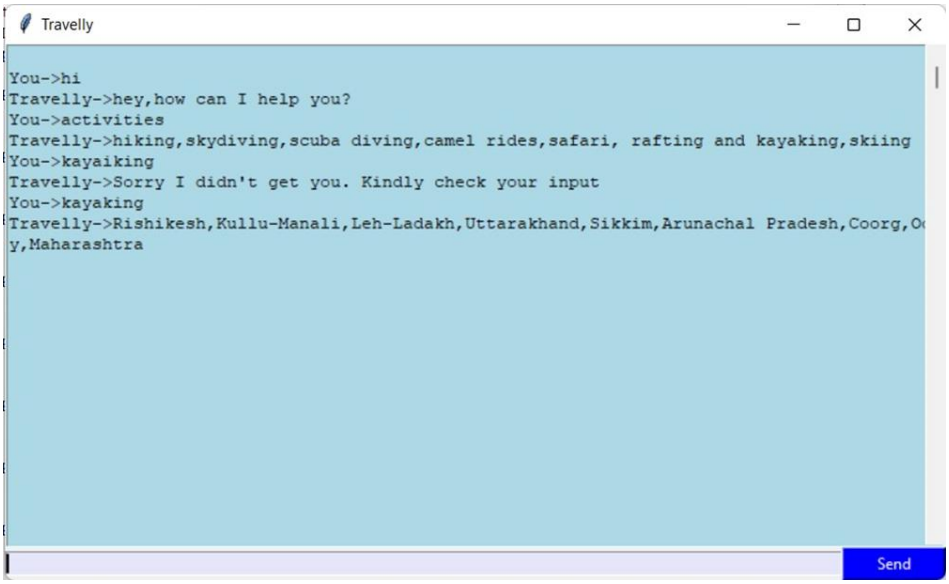
```
            engine.say("Pristine island-Pondicherry, Netrani island-Karnataka, Tarkali-Maharashtra, Kovalam-Kerala, Lakshwadeep, Andaman and Nicobar")

            engine.runAndWait()

            txt.insert(END,"\n"+"Travelly->Pristine island-Pondicherry,Netrani island-Karnataka,Tarkali-Maharashtra,Kovalam-Kerala,Lakshwadeep,Andaman and Nicobar")

        elif(e.get()=="camel rides"):

            engine.say("Ladakh, Jammu and Kashmir, Jaisalmer, Bikaner, Mandawa, Pushkar, Udaipur, Mandawa")

            engine.runAndWait()

            txt.insert(END,"\n"+"Travelly->Ladakh,Jammu and Kashmir,Jaisalmer,Bikaner,Mandawa,Pushkar,Udaipur,Mandawa")

        elif(e.get()=="rafting"):

            engine.say("Rishikesh, Kullu-Manali, Leh-Ladakh, Uttarakhand, Sikkim, Arunachal Pradesh, Coorg, Ooty, Maharashtra")

            engine.runAndWait()

            txt.insert(END,"\n"+"Travelly->Rishikesh,Kullu-Manali,Leh-Ladakh,Uttarakhand,Sikkim,Arunachal Pradesh,Coorg,Ooty,Maharashtra")

        elif(e.get()=="water activities"):

            engine.say("Rishikesh, Kullu-Manali, Leh-Ladakh, Uttarakhand, Sikkim, Arunachal Pradesh, Coorg, Ooty, Maharashtra")

            engine.runAndWait()

            txt.insert(END,"\n"+"Travelly->Rishikesh,Kullu-Manali,Leh-Ladakh,Uttarakhand,Sikkim,Arunachal Pradesh,Coorg,Ooty,Maharashtra")
```

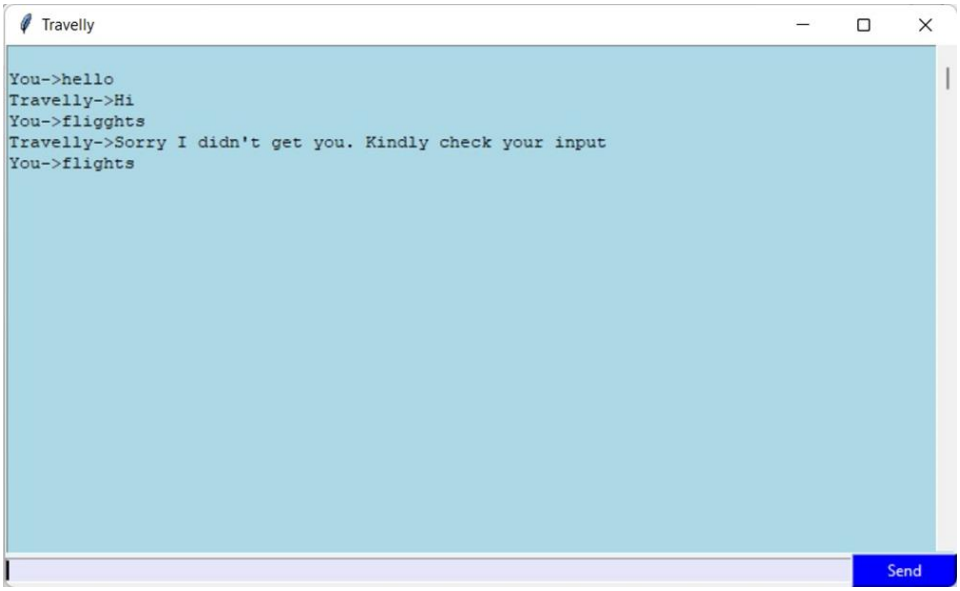
```
        elif(e.get()=="kayaking"):
                engine.say("Rishikesh, Kullu-Manali, Leh-Ladakh, Uttarakhand, Sikkim, Arunachal Pradesh, Coorg, Ooty, Maharashtra")
                engine.runAndWait()
                txt.insert(END,"\n"+"Travelly->Rishikesh,Kullu-Manali,Leh-Ladakh,Uttarakhand,Sikkim,Arunachal Pradesh,Coorg,Ooty,Maharashtra")
        elif(e.get()=="skiing"):
                engine.say("Auli, Kufri-Shimla, Solang Valley-Manali, Rohtang Pass, Sikkim, Narkanda-Himachal Pradesh, Gulmarg-Kashmir, Jharkhand, Jammu and Kashmir")
                engine.runAndWait()
                txt.insert(END,"\n"+"Travelly->Auli,Kufri-Shimla,Solang Valley-Manali,Rohtang Pass,Sikkim,Narkanda-Himachal Pradesh,Gulmarg-Kashmir,Jharkhand,Jammu and Kashmir")
        elif(e.get()=="thank you"):
                engine.say("Welcome. Have a wonderful holiday")
                engine.runAndWait()
                txt.insert(END,"\n"+"Travelly->Welcome.Have a wonderful holiday")
      elif(e.get()=="how are you"):
                engine.say("Welcome. Have a wonderful holiday")
                engine.runAndWait()
                txt.insert(END,"\n"+"Travelly->Welcome.Have a wonderful holiday")
      elif(e.get()=="thanks"):
                engine.say("Welcome.Have a wonderful holiday")
```

```
                engine.runAndWait()
                txt.insert(END,"\n"+"Travelly->Welcome.Have a wonderful holiday")
        elif(e.get()=="flights" or e.get=="flight details"):
                webbrowser.open("https://www.cleartrip.com/")
        elif(e.get()=="hotels" or e.get()=="resorts"):
                webbrowser.open("https://www.tripadvisor.in/")
        elif(e.get()=="trains" or e.get()=="train information"):
                webbrowser.open("https://www.makemytrip.com/railways/")
        elif(e.get()=="cuisines" or e.get()=="food"):
                webbrowser.open("https://www.tripadvisor.in/Restaurants")
        else:
            engine.say("Sorry, I didn't get you")
            engine.runAndWait()
            txt.insert(END,"\n"+"Travelly->Sorry I didn't get you")


        e.delete(0,END)



txt=Text(root,width=90,bg="lightblue")
txt.grid(row=0,column=0,columnspan=2)
```

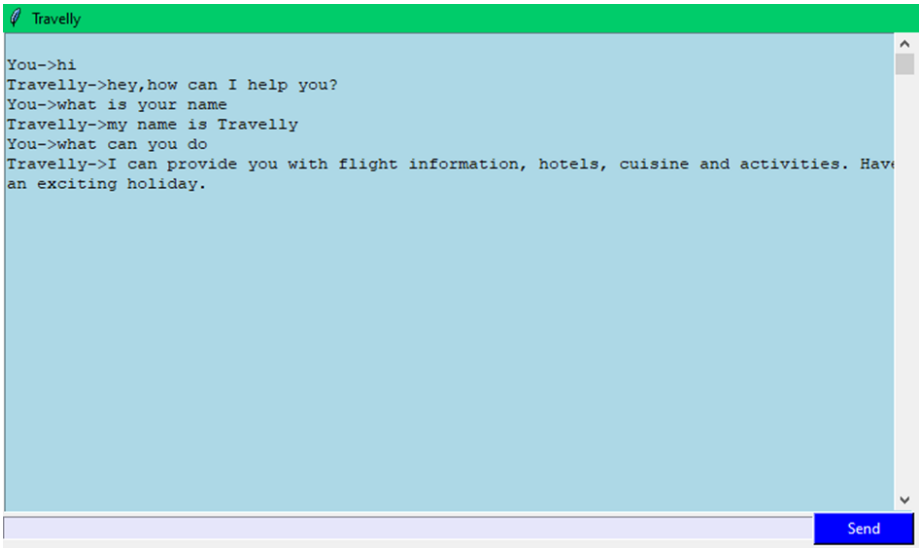
```
e=Entry(root,width=107,bg="lavender")

send=Button(root,text="Send",command=send,bg='blue',fg='white',width="10", height=1)

send.grid(row=1,column=1)

e.grid(row=1,column=0)

scrollbar=Scrollbar(root, command=txt.yview())

scrollbar.place(x=710,y=0,height=386)

root.title("Travelly")

root.mainloop()
```

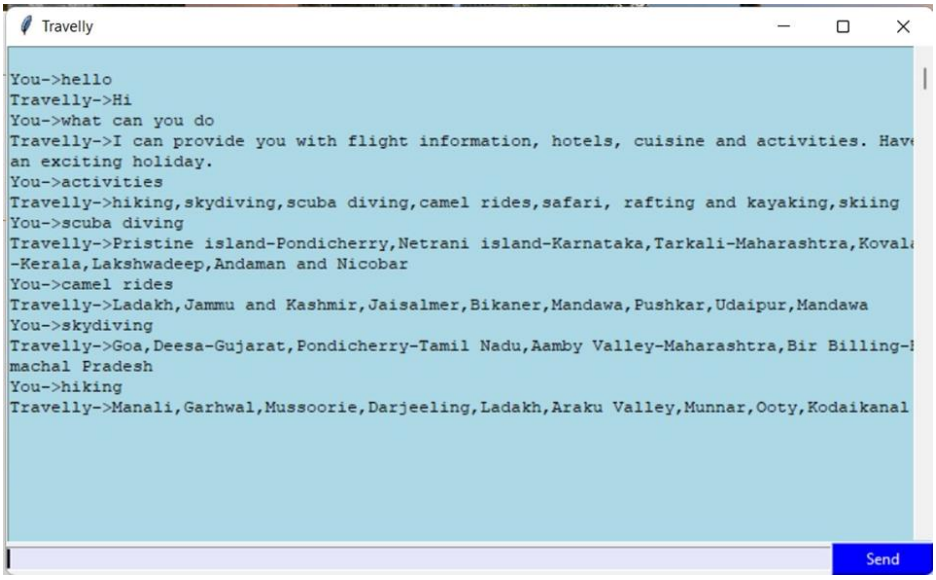
TESTING


Travelly
You->hi
Travelly->hey,how can I help you?
You->activities
Travelly->hiking,skydiving,scuba diving,camel rides,safari, rafting and kayaking,skiing
You->kayaiking
Travelly->Sorry I didn't get you. Kindly check your input
You->kayaking
Travelly->Rishikesh,Kullu-Manali,Leh-Ladakh,Uttarakhand,Sikkim,Arunachal Pradesh,Coorg,O
y,Maharashtra
Send

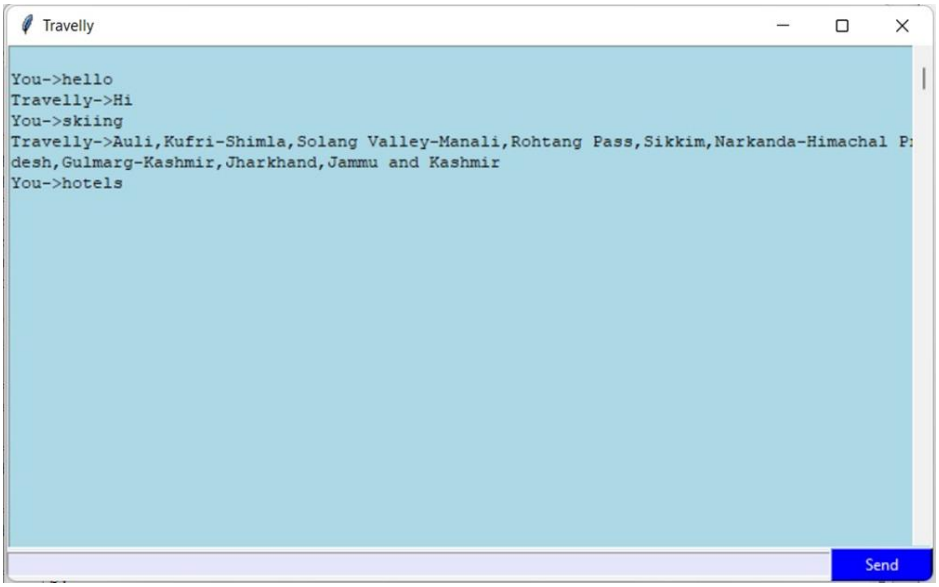

Travelly
You->hello
Travelly->Hi
You->fligghts
Travelly->Sorry I didn't get you. Kindly check your input
You->flights
Send

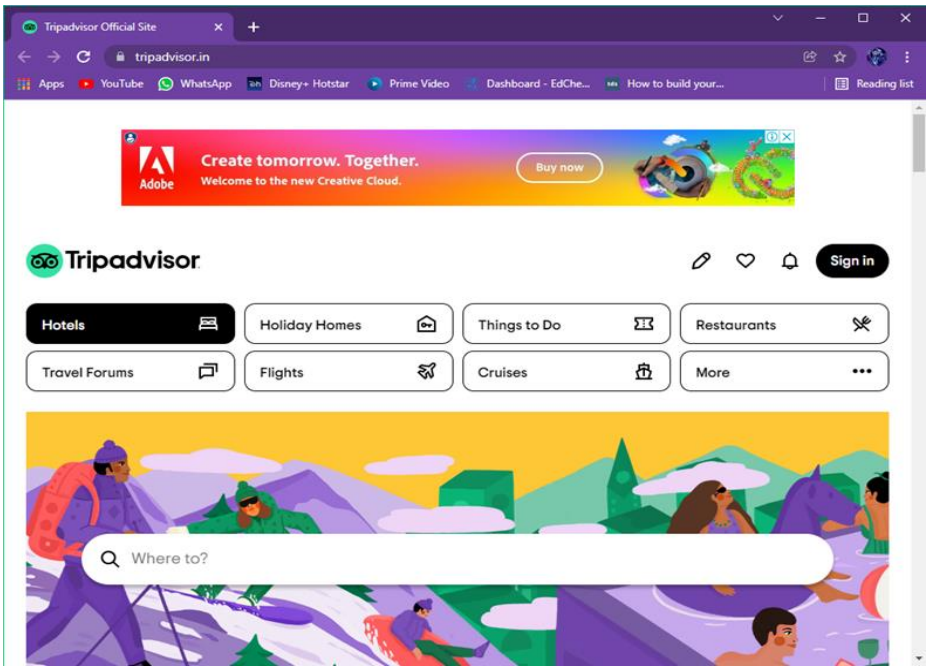
RESULTS AND ANALYSIS



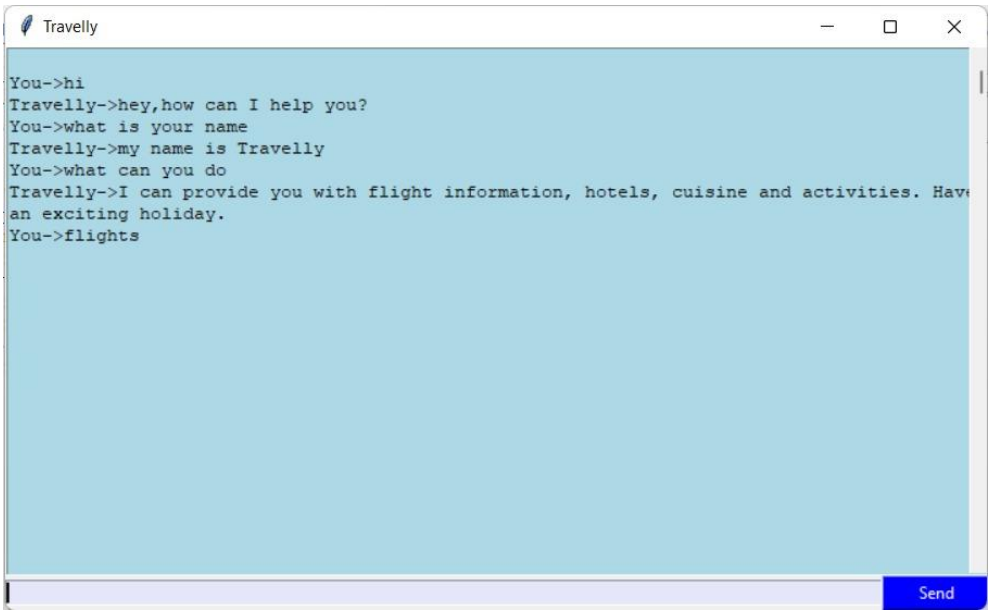


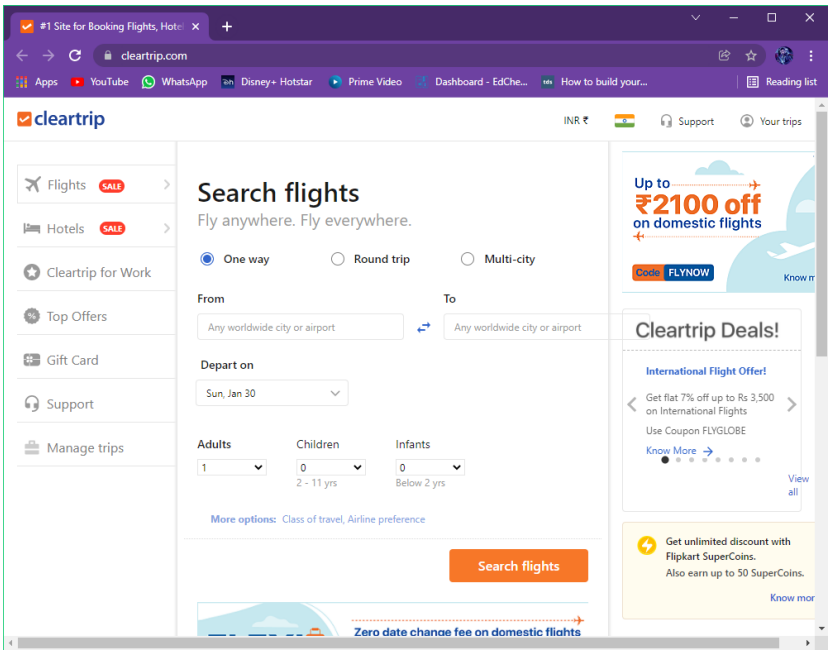
Travelly allows the user to input the kind of activities they might prefer and provides relevant details of the activities along with the most popular destinations for the specified activities accompanied with a voice.



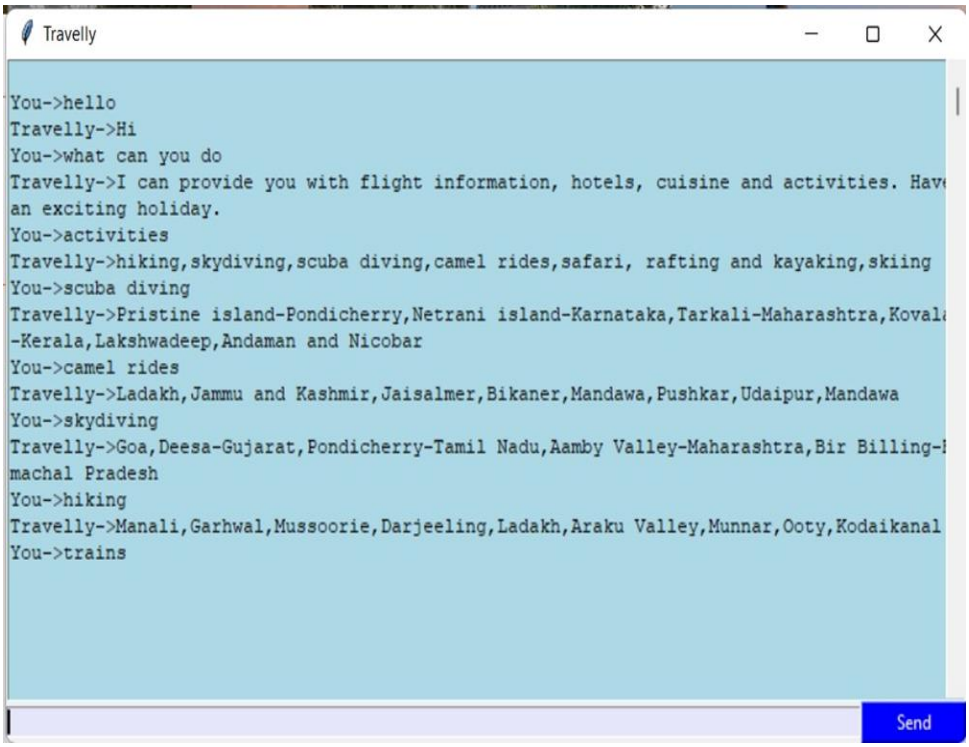


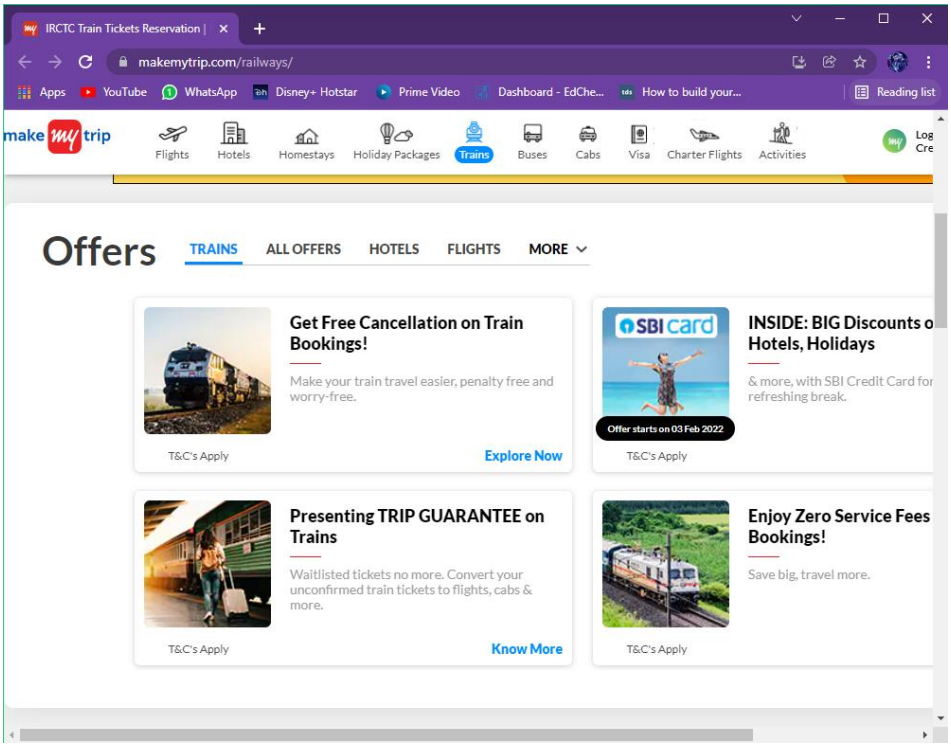
Here, Travelly allows user to input hotels and provides users with the website that allows booking for hotels.



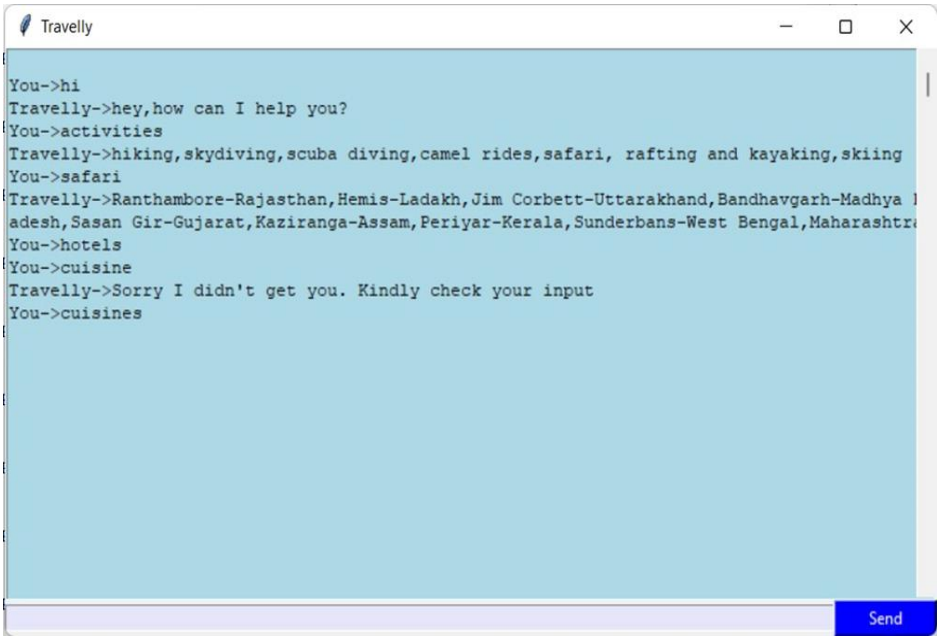


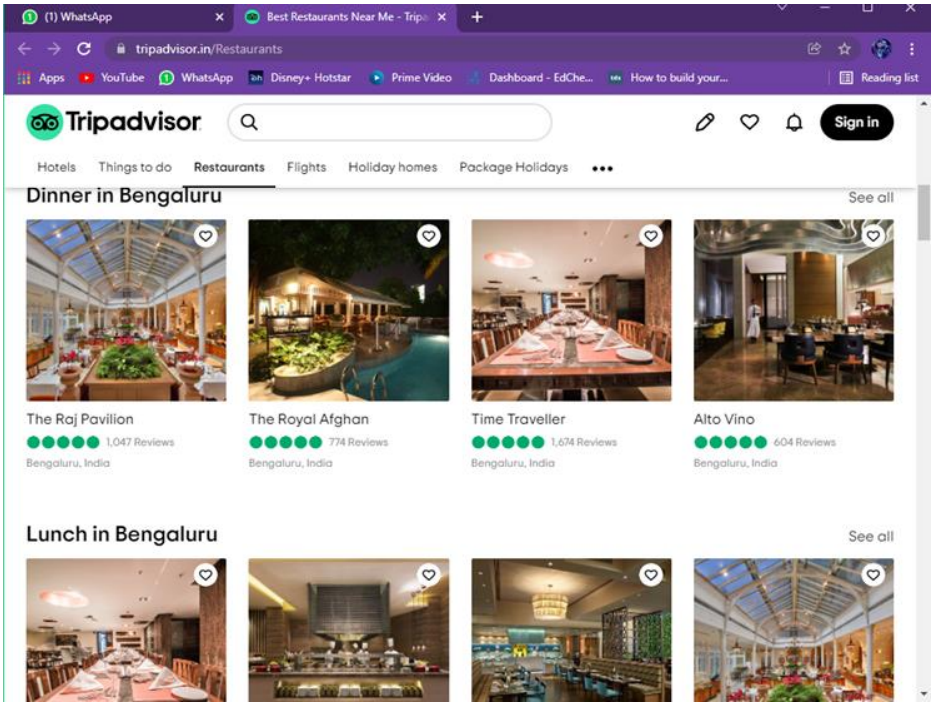
Travelly takes the user to a site to book flights of their requirement.





Users can elect trains for their bookings, it guides them to the above website.





It allows users to choose from various options of restaurants ranging according to their convenience.

CONCLUSIONS AND FUTURE ENHANCEMENTS

The scope for a travel chatbot lies in various domains as it creates a unique experience for a user. They are extensively used in a wide range of industries which increases proficiency, thereby leading to more usage amongst people. Travel chatbots henceforth, should be enabled so as to create easier virtual interactions between the user and the bot by limiting human interaction. It provides a more suitable alternative when compared to normal searches which take a substantial amount of time. Services are provided at one place which provides for more efficiency and easier use for the user.

One of the most important needs for a chatbot is that it allows and creates a good user experience. It provides quite a large platform for service integration and management by designing a universal channel to carry out these needs to a user. Bots are always available to engage customers with immediate answers to the common questions asked by them. The most promising area of using chatbots is their 24-hour customer service.

This bot can be extensively developed in the future by enabling larger amounts of features and characteristics that would allow the bot to function proficiently. Simpler code would make way for lesser errors and effortless functionality. A simpler interface would provide better accessibility to the population. The quick and user-friendly interface of the bot requires no complex knowledge of programming to interact with the bot. It would reduce the overall compile-time, hence making it more productive.

Near to future bots will advance to enhance human capabilities and a human representative will become more innovative activities.

REFERENCES

Online Video (e.g., Youtube)

Senbu Creates. How To Make Simple Chat Bot Using Python || Tkinter || Beginners python tkinter(Jan 13, 2020). Accessed: Jan 24,2022[Online Video]. Available: https://youtu.be/3pFN-fQgFFc

Python Engineer. Create A Chatbot GUI Application With Tkinter - Python Tutorial(Feb 15, 2021). Accessed: Jan 26,2022[Online Video]. Available: https://youtu.be/RNEcewpVZUQ

Computer Science. Build A Simple Chat Bot GUI Using Python(Apr 15, 2020). Accessed: Jan 28,2022

[Online Video]. Available: https://youtu.be/j56RiHtqHYs

Code Palace. How to create an accurate Chat Bot Response System in Python Tutorial (2021)

(Mar 26, 2021). Accessed:Jan 14,2022[Online Video]. Available: https://youtu.be/Ea9jgBjQxEs

edureka! How To Make a Chatbot in Python | Python Chat Bot Tutorial | Edureka(Aug 8, 2019). Accessed: Jan 20,2022[Online Video]. Available: https://youtu.be/tSjR7bk1Y9U

Websites

Python Organisation. pip install pyttsx3. https://pypi.org/project/pyttsx3/ (Accessed: Jan 18,2022)

chetankhanna767. Play sound in Python. https://www.geeksforgeeks.org/play-sound-in-python/

(Accessed:Dec 27,2022)

TML. Play audio with Python. https://stackoverflow.com/questions/260738/play-audio-with-python. (Accessed: Jan 24,2022)

ysachin2314. How to play sounds in Python with Tkinter? https://www.geeksforgeeks.org/how-to-play-sounds-in-python-with-tkinter/ (Accessed: Jan 3,2022)

randerson112358. Build A Simple Chat Bot GUI Using Python. https://randerson112358.medium.com/build-a-simple-chat-bot-graphical-user-interface-using-python-adf7bd558fc3 (Accessed: Jan 14,2022)

maryamnadeem20. GUI chat application using Tkinter in Python. https://www.geeksforgeeks.org/gui-chat-application-using-tkinter-in-python/ (Accessed: Jan 5,2022)

Patrick Loeber. Create A Chatbot GUI Application With Tkinter. https://www.python-engineer.com/posts/chatbot-gui-tkinter/ (Accessed: Dec 19.2022)

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Update the header with your project title.

Each line must have spacing of 1.5

Use Times New Roman font for every text content

All below headings must have font size:16 and font style:Bold

Other text must have font size of 12 and justify this text in the report.

The margins should be: Left and Right– 2.00 cm, Top and Bottom – 2.00 cm

Abstract – Maximum 100 words about the project

Table of Contents

Introduction (scope of the work and its importance)

Design/Implementation : Code

Testing

Result and Analysis: Output snapshots with proper captions

Conclusions & future enhancements

References- in standard IEEE format (click here for the sample format)