**NAVRACHANA SCHOOL,SAMA**



**ACADEMIC YEAR : 2021-22**

**PROJECT REPORT ON**

**AYUTAN FLIGHT BOOKING SYSTEM**

**ROLL NO : 11620072**

**NAME : TANMAY MITTAL**

**CLASS : XII - C**

**SUBJECT : COMPUTER SCIENCE**

**SUB CODE : 083**

**PROJECT GUIDE: SMRITI UPADHYAY**



**NAVRACHANA SCHOOL,SAMA**

**CERTIFICATE**

This is to certify that **TANMAY MITTAL** Roll No: 11620072 has successfully completed the Project Work entitled **AYUTAN FLIGHT BOOKING SYSTEM** in the subject Computer Science (083) laid down in the regulations of CBSE for the purpose of Practical Examination in Class XII to be held in Navrachana School Sama Year 2020-21.

**External Examiner:**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature:

**Internal Examiner:**

**SMRITI UPADHYAY**

Signature

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**ACKNOWLEDGEMENT**

Apart from my efforts, the success of any project depends largely on the encouragement and guidelines of many others. I take this opportunity to express my gratitude to the people who have been instrumental in the fruition of this project.

I express my heartfelt gratitude to my parents for their constant encouragement while carrying out this project and to my project partner Ayush with whom I completed this project successfully.

I am grateful to my friends and peers who helped me by giving me ideas whenever I got stuck somewhere in my code.

I humbly acknowledge the contributions of the individuals who were keen to bring out the best of us in this project , who continue to look after me even with my shortcomings .

My sincerest thanks to Smriti Upadhyay , our project guide and computer science teacher who reviewed my project and helped in solving problems that occurred during implementation of the project. Her guidance and encouragement were key to the execution of our ideas.

**AYUTAN FLIGHT BOOKING SYSTEM**

**INTRODUCTION**

Ayutan Flight Booking System is a python based project. We have developed A GUI based Flight Booking system using Python 3.8, MYSQL and CSV Files.

Our flight booking system provided the user a platform to easily book flight. It is designed with a User Friendly GUI so that the user can book the flights easily.

We have used the following Modules in our project:

* Tkinter
* Time
* Random
* Mysql.connector
* Datetime
* Calender
* CSV

**OBJECTIVES OF THE PROJECT**

The objective of this project is to:

* Let the user select and book a flight as per his preference.
* Providing the user a platform to easily book flight.
* Give Various choices of flights for the user to choose from.
* Let user book flights for more than 1 person.
* Option of going back.
* Informs the user if any wrong detail entered.

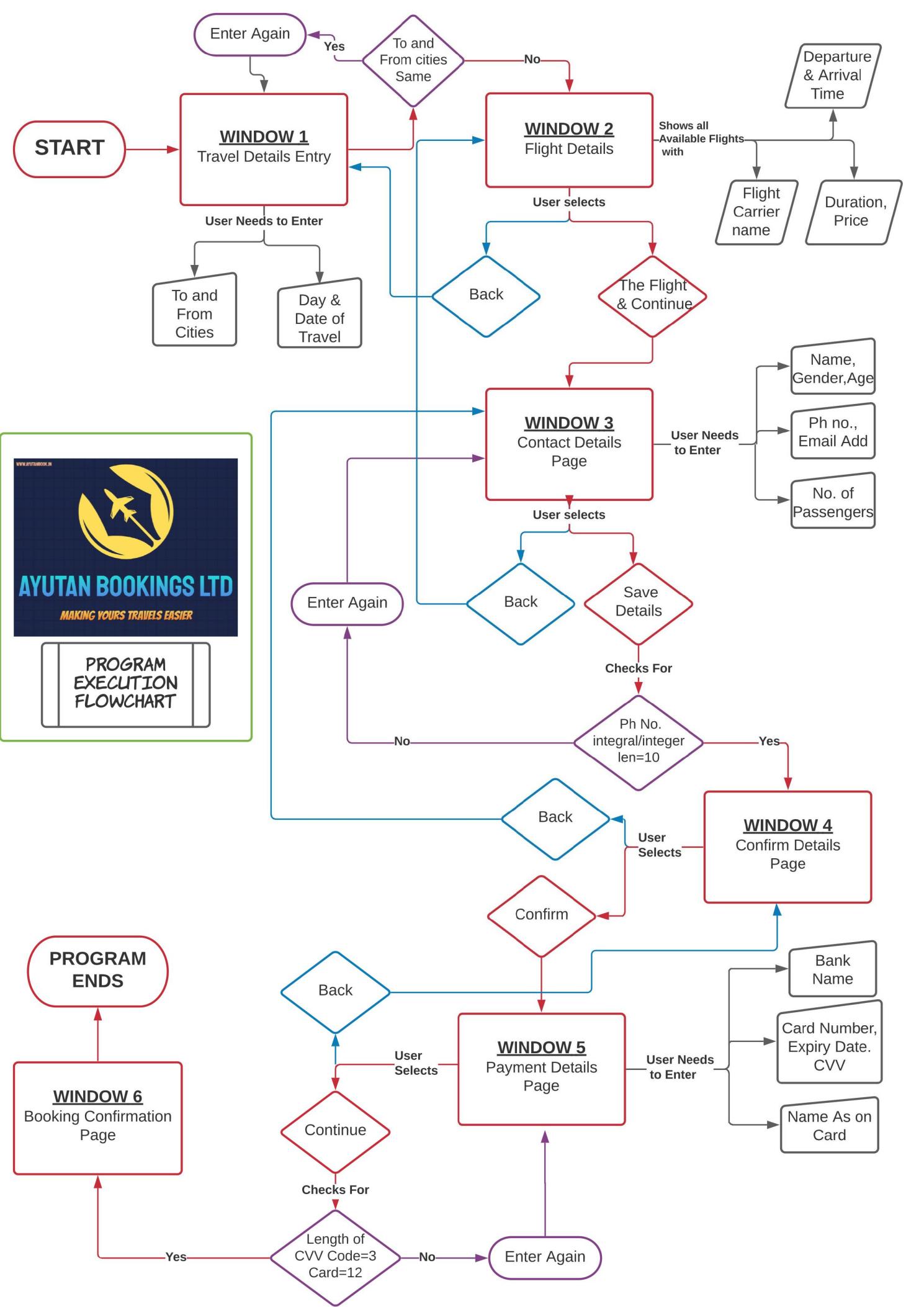
**USE OF DIFFERENT MODULES IN THE PROJECT:**

The project is primarly based on GUI Interface on pyhton.

* **Tkinter Module** has been used to create a GUI interface for the project to make the program more user friendly.
* **DateTime & Calender Module** has been used to get the Date and Day Details of the time the user wants to travel.
* A Huge Database of Flight Details has been created using **MYSQL connectivity with Python**.
* **Random module** has been used to showcase 6-10 flights between the selected departure and arrival location by the user from the Database.
* **Time Module** has been used to facilitate the progress bar use.
* **CSV Module** has been used to create an excel sheet & input value into excel sheet of the all important details of the booking.

**MORE ABOUT THE PROJECT**This project has many functions which make it interactive and more realistic to flight reservation sites like makemytrip. The program does the following functions:

* Arrival and Destination location selector along with date.
* Displaying numerous flights for the user to select from for his journey.
* Contact details entry page
* Confirm Details Page before proceeding forward to payments.
* Accepting Payments through various leading banks of India through a secure and fast process.
* If user feel the entered any wrong information, they can always go back to the previous page.
* Checks for any error in input of information and displays error if any abnormalities detected.
* Gives a detailed Excel Sheet about every booking made from the AYUTAN Bookings program.

**FLOW CHART**

A

A

B

B

**SOURCE CODE**

from tkinter import \*

from tkinter import ttk

from tkinter import messagebox

import time

import random

import mysql.connector

import csv

import datetime

import calendar

import os

import sys

try:

    import docx

except:

    os.system("pip install python\_docx")

    import docx

mydb = mysql.connector.connect(host="localhost",user="root", passwd="ayush123")

mycursor = mydb.cursor()

def First\_Page():

    root=Tk()

    root.title("Enter Details")

    root.geometry("1000x600")

    def findDay(date):

        born = datetime.datetime.strptime(date, '%d %m %Y').weekday()

        return (calendar.day\_name[born])

    def Submit():

        global From

        From=fromenter.get()

        global To

        To=toenter.get()

        l1=[]

        for x in range (0,31):

             l1.append(x)

        if int(dd.get())==0 or int(dd.get()) not in l1 or mm.get() not in Months or int(yy.get()) not in [2020,2021,2023,2022,2024]:

            l=Label(root, text="INVALID DATE")

            l.grid(row=4, column=1)

            return

        global Date

        Date= str(dd.get()) + " / " + str((Months.index(mm.get()))+1) + " / "+ str(yy.get())

        global day

        day=findDay(str(dd.get()) + " " + str((Months.index(mm.get()))+1) + " "+ str(yy.get()))

        if To==From or To not in locations or From not in locations:

           l=Label(root, text="INVALID LOCATIONS")

           l.grid(row=4, column=1)

           return

        else:

            root.destroy()

            wait = Tk()

            wait.title("Searching.......")

            wait.geometry("1000x100")

            Label(wait,text="Searching out the Best Flights for your Travel...",font="Bold 20").pack()

            progress = ttk.Progressbar(wait, orient = HORIZONTAL,length = 100, mode = 'determinate')

            progress.place(relx =0.5, rely=0.5, anchor=CENTER, relheight=0.25, relwidth=0.85)

            import time

            progress['value'] = 20

            wait.update()

            time.sleep(0.75)

            progress['value'] = 40

            wait.update()

            time.sleep(0.75)

            progress['value'] = 60

            wait.update()

            time.sleep(0.75)

            progress['value'] = 80

            wait.update()

            time.sleep(0.75)

            progress['value'] = 100

            wait.destroy()

            wait.mainloop()

            Flight\_Details()

        # Next=Button(root, text="Search Flights", bd='5', command=lambda: [root.destroy(),Flight\_Details()])

        # Next.grid(row=7,column=1)

    from\_=Label(root,text= "From: " , font="50")

    from\_.grid(row= 0, column= 0, sticky= W, pady=2)

    n = StringVar()

    fromenter=ttk.Combobox(root, width = 70, textvariable = n)

    fromenter['values'] = ('Ahmedabad','New Delhi', 'Mumbai', 'Vadodara', 'Bangaluru', 'Hyderabad', 'Bhubaneswar',

                           'Chennai','Kolkata')

    fromenter.grid(row= 0, column= 1)

    to\_=Label(root, text="To: ", font="50")

    to\_.grid(row= 1, column= 0, sticky= W, pady=2)

    n = StringVar()

    toenter= ttk.Combobox(root, width = 70, textvariable = n)

    toenter['values'] = ('Ahmedabad','New Delhi', 'Mumbai', 'Vadodara', 'Bangaluru', 'Hyderabad', 'Bhubaneswar',

                            'Chennai','Kolkata')

    locations=['Ahmedabad','New Delhi', 'Mumbai', 'Vadodara', 'Bangaluru', 'Hyderabad', 'Bhubaneswar',

                            'Chennai','Kolkata']

    toenter.grid(row= 1, column= 1)

    Date\_=Label(root, text="Date of Journey: ", font="50")

    Date\_.grid(row= 2, column= 0, sticky= W, pady=2)

    dd=Spinbox(root, from\_= 0, to = 31, width=5)

    dd.grid(row=2, column=1, sticky=W)

    n = StringVar()

    mm=ttk.Combobox(root, width = 27, textvariable = n)

    Months=[' January',' February', ' March',' April',' May',' June', ' July',' August', ' September', ' October', ' November',' December']

    mm['values'] = (' January',' February', ' March',' April',' May',' June', ' July',' August', ' September', ' October', ' November',' December')

    mm.grid(column = 1, row = 2, )

    yy=Spinbox(root, from\_= 2021, to = 2023, width=10)

    yy.grid(row=2, column=1, sticky=E)

    submit=Button(root, text="Save Details", command=Submit)

    submit.grid(row=3,column=1)

root.mainloop()

def Flight\_Details():

    def back():

        root1.destroy()

        First\_Page()

    def Submit1():

        v=V.get()

        global selected

        selected=DispList[v]

        root1.destroy()

        Details\_Page()

    root1=Tk()

    root1.title("Select FLight")

root1.geometry('2000x2000')

    try:

        mycursor.execute("USE AYUTANBOOK")

    except:

        mycursor.execute("CREATE DATABASE AYUTANBOOK")

        mycursor.execute("USE AYUTANBOOK")

        mycursor.execute("CREATE TABLE FlightDetails(Flight char(20),Departure\_Time char(10),Arrival\_Time char(10),Duration char (20),Flight\_Type char(80), Price Numeric(10))")

        sql = "INSERT INTO FlightDetails (Flight, Departure\_Time,Arrival\_Time, Duration, Flight\_Type, Price) VALUES (%s, %s,%s,%s, %s,%s)"

        val=[('Indigo-6E365','9:40 am','11.40 am','2hrs','Non-Stop',4500),

              ('SpiceJet-SJ56','6:00 am','7:50 am','1 hrs 50mins','Non-Stop',4300),

              ('Vistara-VTAQ8','7:40 am','10:00 am','2 hrs 20mins','Non-Stop',4500),

              ('AirIndia-AI789','11.30 am','1:20 pm','1 hrs 50mins','Non-Stop',5600),

              ('GoAir-GA557','11:45 am','1:45 pm','2hrs','Non-Stop',4600),

              ('Indigo-6E890','3:40 pm','5:40 pm','2 hrs','Non-Stop',4900),

              ('AirAsia-AA48K','4:20 pm','6.00 pm','1 hrs 40mins', 'Non-Stop',4900),

              ('Indigo-6E156','4:50 pm','7:00 pm','2 hrs 10mins','Non-Stop',5100),

              ('SpiceJet-SJ90','6:00 pm','8:30 pm','2 hrs 30mins','Non-Stop',4100),

              ('Vistara-VTAZ7','7:00 pm','8:40 pm','1 hrs 40mins','Non-Stop',4900),

              ('GoAir-GA698','7.45 pm','9:50 pm','2 hrs 5mins','Non-Stop',4300),

              ('AirIndia-AI340','8:50 pm','10.35pm','1 hrs 45mins','Non-Stop',5400),

              ('Indigo-6E691','10:00 pm','11:50 pm', '1 hrs 50mins','Non-Stop',4400),

              ('AirAsia-AA78J','8:30 am','12:30 pm','4hrs','1 hr 30 mins Stop at Bhopal', 3900),

              ('Indigo-6E410','11:30 am','4:50 pm','5 hrs 20mins','1 hr 50 mins Stop at Raipur', 4100),

              ('GoAir-GA689','1:30 pm','5:20 pm','3 hrs 50mins','1 hr Stop a Pune', 4200)]

        mycursor.executemany(sql,val)

        mydb.commit()

    number=random.randint(7,10)

    mycursor.execute("SELECT \* FROM FlightDetails")

    filedata = mycursor.fetchall()

    L=[]

    for x in filedata:

        L.append(x)

    Len=len(L)

    DispList=[]

    m=[]

    for i in range(Len):

        m.append(i)

    for i in range(number):

        a=random.choice(m)

        m.remove(a)

        DispList.append(L[a])

    row\_no=number

    column\_no= len(DispList[0])

    V=IntVar()

    frame1=Frame(root1, height=130)

    frame1.pack(side= TOP, fill=X)

    frame2=Frame(root1)

    frame2.pack(side= TOP, fill=X)

    frame3=Frame(root1)

    frame3.pack(side= TOP, fill=X)

    l1=Label(frame1, text=From+"  \u2192", font="30")

    l1.place(x=5,y=10)

    l2=Label(frame1, text=Date,font="30")

    l2.place(x=5, y=70)

    l3=Label(frame1, text=To,font="30")

    l3.place(x=160,y=10)

    l4=Label(frame1, text=day,font="30")

    l4.place(x=150,y=70)

    for row in range(row\_no):

        for xyz in range(column\_no+1):

            frame2.columnconfigure(xyz, weight=1)

        if row==0:

                label1 = Label(frame2, text="FLIGHT",font=('Arial',14), borderwidth=2,relief="solid")

                label1.grid(row=row, column=0, sticky="nsew", padx=1, pady=1)

                label2 = Label(frame2, text="DEPARTURE\_TIME",font=('Arial',14), borderwidth=1,relief="solid")

                label2.grid(row=row, column=1, sticky="nsew", padx=1, pady=1)

                label3 = Label(frame2, text="ARRIVAL\_TIME",font=('Arial',14), borderwidth=1,relief="solid")

                label3.grid(row=row, column=2, sticky="nsew", padx=1, pady=1)

                label4 = Label(frame2, text="DURATION",font=('Arial',14), borderwidth=1, relief="solid")

                label4.grid(row=row, column=3, sticky="nsew", padx=1, pady=1)

                label5 = Label(frame2, text="FLIGHT\_TYPE",font=('Arial',14), borderwidth=1,relief="solid")

                label5.grid(row=row, column=4, sticky="nsew", padx=1, pady=1)

                label6 = Label(frame2, text="PRICE",font=('Arial',14), borderwidth=1,relief="solid")

                label6.grid(row=row, column=5, sticky="nsew", padx=1, pady=1)

                label7 = Label(frame2, text="SELECT",font=('Arial',14), borderwidth=1,relief="solid")

                label7.grid(row=row, column=6, sticky="nsew", padx=1, pady=1)

        else:

            for column in range(column\_no):

                disp=DispList[row][column]

                label=Label(frame2,text=disp, borderwidth=1,relief="solid")

                label.grid(row=row,column=column,sticky="nsew",padx=1,pady=1)

            radioButton=Radiobutton(frame2,text="Book Now", variable=V,value=row, borderwidth=1,relief="solid")

            radioButton.grid(row=row,column=6,sticky="nsew")

    submit1=Button(frame3, text="Submit", bd='5', command=Submit1)

    submit1.pack(anchor= CENTER)

    Back\_button=Button(frame3,text="Back", command=back, bd='5')

    Back\_button.pack(anchor=CENTER)

    root1.mainloop()

def Details\_Page():

    root=Tk()

    root.title("Enter Details")

    root.geometry("1000x600")

    def back():

        root.destroy()

        Flight\_Details()

    def Submit2():

        try:

            global age

            age=age\_var.get()

            global phone

            phone=phone\_var.get()

        except:

            try:

                age=age\_var.get()

            except:

                l=Label(root, text="INVALID AGE")

                l.grid(row=7, column=1)

            try:

                phone=phone\_var.get()

            except:

                l=Label(root, text="INVALID PHONE NUMBER")

                l.grid(row=8, column=1)

        else:

            if len(str(phone))!=10:

                l=Label(root, text="INVALID PHONE NUMBER")

                l.grid(row=8, column=1)

            else:

                global name

                name=name\_var.get()

                global gender

                gender=n.get()

                global email

                email=email\_var.get()

                global no

                no=no\_box.get()

                root.destroy()

                CONFIRMATION\_PAGE()

    name\_var=StringVar()

    name\_label =Label(root, text = 'Name: ',font="50")

    name\_entry =Entry(root, textvariable = name\_var, width=50)

    name\_label.grid(row=0,column=0,sticky=W, pady=2)

    name\_entry.grid(row=0,column=1,sticky=W, pady=2)

    gender\_=Label(root, text="Gender: ",font="50")

    gender\_.grid(row= 1, column= 0, sticky= W, pady=2)

    n = StringVar()

    genderenter= ttk.Combobox(root, width =10, textvariable = n)

    genderenter['values'] = ("Male","Female")

    genderenter.grid(row= 1, column= 1,sticky=W, pady=2)

    age\_var=IntVar()

    age\_label =Label(root, text = 'Age: ',font="50")

    age\_entry =Entry(root, textvariable = age\_var,width=5)

    age\_label.grid(row=2,column=0,sticky=W, pady=2)

    age\_entry.grid(row=2,column=1,sticky=W, pady=2)

    phone\_var=IntVar()

    phone\_label =Label(root, text = 'Phone Number: ',font="50")

    phone\_entry =Entry(root, textvariable = phone\_var)

    phone\_label2 =Label(root, text = '+91')

    phone\_label.grid(row=3,column=0,sticky=W, pady=2)

    phone\_label2.grid(row=3,column=0,sticky=E, pady=2)

    phone\_entry.grid(row=3,column=1,sticky=W, pady=2)

    email\_var=StringVar()

    email\_label =Label(root, text = 'Email Add: ',font="50")

    email\_entry =Entry(root, textvariable = email\_var, width=50)

    email\_label.grid(row=4,column=0,sticky=W, pady=2)

    email\_entry.grid(row=4,column=1,sticky=W, pady=2)

    no\_label=Label(root, text="No. of Passengers:     ",font="50")

    no\_label.grid(row=5,column=0,sticky=W, pady=2)

    no\_box=Spinbox(root, from\_= 1, to = 10, width=10)

    no\_box.grid(row=5, column=1,sticky=W, pady=2)

    submit2=Button(root, text="Save Details", command=Submit2)

    submit2.grid(row=6,column=1,sticky=W, padx=5)

    Back\_button=Button(root,text="Back", command=back)

    Back\_button.grid(row=6,column=0,sticky=E)

    root.mainloop()

def CONFIRMATION\_PAGE():

    def Continue():

        root3.destroy()

        wait2 = Tk()

        wait2.title("Directing")

        wait2.geometry("1000x100")

        Label(wait2,text="Directing To Secure Payment Site......",font="Bold 20").pack()

        progress = ttk.Progressbar(wait2, orient = HORIZONTAL,length = 100, mode = 'determinate')

        progress.place(relx =0.5, rely=0.5, anchor=CENTER, relheight=0.25, relwidth=0.85)

        import time

        progress['value'] = 20

        wait2.update()

        time.sleep(0.75)

        progress['value'] = 40

        wait2.update()

        time.sleep(0.75)

        progress['value'] = 60

        wait2.update()

        time.sleep(0.75)

        progress['value'] = 80

        wait2.update()

        time.sleep(0.75)

        progress['value'] = 100

        wait2.destroy()

        wait2.mainloop()

        Payment\_page()

    def back():

        root3.destroy()

        Details\_Page()

    root3=Tk()

    root3.title("Confirm Details")

    root3.geometry('500x500')

    l1=Label(root3,text="Boarding Location: ")

    l1.grid(row=0,column=0, sticky=W,padx=2)

    l2=Label(root3,text="Final Destination : ")

    l2.grid(row=1,column=0, sticky=W,padx=2)

    l3=Label(root3,text="Date of Travel: ")

    l3.grid(row=2,column=0, sticky=W,padx=2)

    l4=Label(root3,text="Day of Travel: ")

    l4.grid(row=3,column=0, sticky=W,padx=2)

    l5=Label(root3,text="Departure Time: ")

    l5.grid(row=4,column=0, sticky=W,padx=2)

    l6=Label(root3,text="Arrival Time: ")

    l6.grid(row=5,column=0, sticky=W,padx=2)

    l7=Label(root3,text="Duration: ")

    l7.grid(row=6,column=0, sticky=W,padx=2)

    l8=Label(root3,text="Flight Name-Id: ")

    l8.grid(row=7,column=0, sticky=W,padx=2)

    l9=Label(root3,text="Flight type: ")

    l9.grid(row=8,column=0, sticky=W,padx=2)

    l10=Label(root3,text="Name: ")

    l10.grid(row=9,column=0, sticky=W,padx=2)

    l11=Label(root3,text="Age: ")

    l11.grid(row=10,column=0, sticky=W,padx=2)

    l12=Label(root3,text="Phone No.: ")

    l12.grid(row=11,column=0, sticky=W,padx=2)

    l13=Label(root3,text="Email ID: ")

    l13.grid(row=12,column=0, sticky=W,padx=2)

    l14=Label(root3,text="Number of Passengers: ")

    l14.grid(row=13,column=0, sticky=W,padx=2)

    l15=Label(root3,text="Amount to be paid: ")

    l15.grid(row=14,column=0, sticky=W,padx=2)

    w1=Label(root3,text=From)

    w1.grid(row=0,column=1, sticky=W,padx=2)

    w2=Label(root3,text=To)

    w2.grid(row=1,column=1, sticky=W,padx=2)

    w3=Label(root3,text=Date)

    w3.grid(row=2,column=1, sticky=W,padx=2)

    w4=Label(root3,text=day)

    w4.grid(row=3,column=1, sticky=W,padx=2)

    w5=Label(root3,text=selected[1])

    w5.grid(row=4,column=1, sticky=W,padx=2)

    w6=Label(root3,text=selected[2])

    w6.grid(row=5,column=1, sticky=W,padx=2)

    w7=Label(root3,text=selected[3])

    w7.grid(row=6,column=1, sticky=W,padx=2)

    w8=Label(root3,text=selected[0])

    w8.grid(row=7,column=1, sticky=W,padx=2)

    w9=Label(root3,text=selected[4])

    w9.grid(row=8,column=1, sticky=W,padx=2)

    w10=Label(root3,text=name)

    w10.grid(row=9,column=1, sticky=W,padx=2)

    w11=Label(root3,text=str(age))

    w11.grid(row=10,column=1, sticky=W,padx=2)

    w12=Label(root3,text=str(phone))

    w12.grid(row=11,column=1, sticky=W,padx=2)

    w13=Label(root3,text=email)

    w13.grid(row=12,column=1, sticky=W,padx=2)

    w14=Label(root3,text=str(no))

    w14.grid(row=13,column=1, sticky=W,padx=2)

    w15=Label(root3,text=str(int(selected[5])\*int(no)))

    w15.grid(row=14,column=1, sticky=W,padx=2)

    Continue\_button=Button(root3,text="Confirm", command=Continue)

    Continue\_button.grid(row=15,column=1,sticky=W,padx=5)

    Back\_button=Button(root3,text="Back", command=back)

    Back\_button.grid(row=15,column=0,sticky=E)

    root3.mainloop()

def Payment\_page():

    def bac():

        root4.destroy()

        CONFIRMATION\_PAGE()

    def Sub():

        sel\_bank=bank.get()

        if sel\_bank not in bank\_list:

            l=Label(root4, text=" INVALID BANK")

            l.grid(row=6, column=1)

            return

        F\_name=n1.get()

        L\_name=n2.get()

        expmonth=exp\_mm.get()

        l1=[]

        for x in range(1,13):

            l1.append(x)

        try:

            expm=int(expmonth)

        except:

            l=Label(root4, text="INVALID MONTH")

            l.grid(row=6, column=1)

            return

        if int(expmonth) not in l1 :

            l=Label(root4, text="INVALID MONTH")

            l.grid(row=6, column=1)

            return

        l2=[]

        for x in range(2021,2041):

            l2.append(x)

        expyear=exp\_yy.get()

        try:

            expy=int(expyear)

        except:

            l=Label(root4, text=" INVALID YEAR")

            l.grid(row=6, column=1)

            return

        if int(expyear) not in l2:

            l=Label(root4, text=" INVALID YEAR")

            l.grid(row=6, column=1)

            return

        try:

            cvvno=cvv.get()

        except:

            l=Label(root4, text="   INVALID CVV   ")

            l.grid(row=6, column=1)

        else:

            if len(cvvno)!=3:

                l=Label(root4, text="   INVALID CVV   ")

                l.grid(row=6, column=1)

                return

            root4.destroy()

            wait2 = Tk()

            wait2.title("Confirming Your Payment")

            wait2.geometry("1000x180")

            Label(wait2,text="Processing Payment......",font="Bold 20").pack()

            progress = ttk.Progressbar(wait2, orient = HORIZONTAL,length = 100, mode = 'determinate')

            progress.place(relx =0.5, rely=0.5, anchor=CENTER, relheight=0.15, relwidth=0.85)

            import time

            progress['value'] = 20

            wait2.update()

            time.sleep(0.75)

            progress['value'] = 40

            wait2.update()

            time.sleep(0.75)

            progress['value'] = 60

            wait2.update()

            time.sleep(0.75)

            progress['value'] = 80

            wait2.update()

            time.sleep(0.75)

            progress['value'] = 100

            wait2.destroy()

            wait2.mainloop()

            wait3 = Tk()

            wait3.title("Confirming Your Booking")

            wait3.geometry("1000x180")

            Label(wait3,text='''Payment Successful

Directing Back to Merchant Site......''',font="Bold 20").pack()

            progress = ttk.Progressbar(wait3, orient = HORIZONTAL,length = 100, mode = 'determinate')

            progress.place(relx =0.5, rely=0.5, anchor=CENTER, relheight=0.15, relwidth=0.85)

            import time

            progress['value'] = 20

            wait3.update()

            time.sleep(0.75)

            progress['value'] = 40

            wait3.update()

            time.sleep(0.75)

            progress['value'] = 60

            wait3.update()

            time.sleep(0.75)

            progress['value'] = 80

            wait3.update()

            time.sleep(0.75)

            progress['value'] = 100

            wait3.destroy()

            wait3.mainloop()

            length=0

            try:

                with open('.\\booking\_record.csv','r',newline='') as file:

                    r=csv.reader(file)

                    for i in r:

                        length+=1

            except:

                pass

            with open('.\\booking\_record.csv','a+',newline='') as file:

                w=csv.writer(file)

                if length==0:

                    w.writerow(['Name',"Age",'Phone\_no','Email\_ad',"Flight\_Name","Boarding\_Location",

"Destination","Dep\_Date","Dep\_Day","Dep\_Time","Arrival\_Time","Flight\_Type","No\_of\_Passengers",

"Amount\_paid"])

                w.writerow([name,age,phone,email,selected[0],From,To,Date,day,selected[1],

selected[2],selected[4],no,int(selected[5])\*int(no)])

            Final\_Page()

    root4=Tk()

    root4.title("Make Payment")

    root4.geometry('500x500')

    bank\_n=Label(root4, text="Bank Name").grid(row=0,column=0,sticky=W,pady=2)

    n1\_n=Label(root4, text="First Name").grid(row=1,column=0,sticky=W,pady=2)

    n2\_n=Label(root4, text="Last Name").grid(row=2,column=0,sticky=W,pady=2)

    date\_n=Label(root4, text="Expiry Month/Year(MM/YYYY)").grid(row=3,column=0,sticky=W,pady=2)

    cvv\_n=Label(root4, text="CVV").grid(row=4,column=0,sticky=W,pady=2)

    bank\_var=StringVar()

    bank=ttk.Combobox(root4, width = 27, textvariable = bank\_var, text='Bank Name')

    bank['values']=['State Bank of India(SBI)','Kotak Bank','HDFC bank',

        'ICICI Bank','Bank of Baroda(BOB)','Indusland Bank','Yes Bank']

    bank\_list=['State Bank of India(SBI)','Kotak Bank','HDFC bank',

        'ICICI Bank','Bank of Baroda(BOB)','Indusland Bank', 'Yes Bank']

    bank.grid(row=0,column=1,sticky=W,pady=2)

    n1\_var=StringVar()

    n1=Entry(root4, textvariable= n1\_var, width=50)

    n1.grid(row=1,column=1, sticky=W,pady=2)

    n2\_var=StringVar()

    n2=Entry(root4, textvariable= n2\_var, width=50)

    n2.grid(row=2,column=1, sticky=W,pady=2)

    exp\_mm=Spinbox(root4, from\_=0, to = 12, width=10)

    exp\_mm.grid(row=3, column=1, sticky=W,pady=2)

    exp\_yy=Spinbox(root4, from\_=2021, to = 2040, width=10)

    exp\_yy.grid(row=3, column=1, sticky=E, pady=2)

    cvv\_var=IntVar()

    cvv=Entry(root4, textvariable=cvv\_var, width=50)

    cvv.grid(row=4,column=1,sticky=W, pady=2)

    s\_button=Button(root4,text="Submit", command=Sub)

    s\_button.grid(row=5,column=1,sticky=W,padx=5,pady=2)

    b\_button=Button(root4,text="Back", command=bac)

    b\_button.grid(row=5,column=0,sticky=E)

    root4.mainloop()

def Home\_page():

    def Book():

        ws.destroy()

        First\_Page()

    def Exit():

        ws.destroy()

        sys.exit()

    ws = Tk()

    ws.title('Welcome')

    ws.geometry('1920x1080')

    bg =PhotoImage(file = ".\\Photo.pgm", master=ws)

    label1 = Label( ws, image = bg)

    label1.image=bg

    label1.place(relx = 0.5, anchor=N)

    book=Button(ws, text="Book Flight", command=Book,borderwidth = 7,relief="groove")

    book.place(relx=0.485,rely=0.6)

    b2=Button(ws, text="Exit", command=Exit,borderwidth = 7,relief="groove")

    b2.place(relx=0.5,rely=0.66)

    ws.mainloop()

def Final\_Page():

    page=Tk()

    page.title("Booking Complete")

    page.geometry("500x700")

    def b1():

        page.destroy()

        Home\_page()

    # def Print():

    #     doc1=docx.Document()

    #     doc1.add\_heading

    frame1=Frame(page, height=150)

    frame1.pack(side= TOP, fill=X)

    frame2=Frame(page)

    frame2.pack(side= TOP, fill=X)

    frame3=Frame(page,height=200)

    frame3.pack(side= TOP, fill=X)

    label1=Label(frame1, text="Booking Confirmed!!!",font="Bold 20",borderwidth = 7,relief="groove")

    label1.place(relx=0.5,rely=0.5, anchor=CENTER)

    l1=Label(frame2,text="Boarding Location: ")

    l1.grid(row=0,column=0, sticky=W,padx=2)

    l2=Label(frame2,text="Final Destination : ")

    l2.grid(row=1,column=0, sticky=W,padx=2)

    l3=Label(frame2,text="Date of Travel: ")

    l3.grid(row=2,column=0, sticky=W,padx=2)

    l4=Label(frame2,text="Day of Travel: ")

    l4.grid(row=3,column=0, sticky=W,padx=2)

    l5=Label(frame2,text="Departure Time: ")

    l5.grid(row=4,column=0, sticky=W,padx=2)

    l6=Label(frame2,text="Arrival Time: ")

    l6.grid(row=5,column=0, sticky=W,padx=2)

    l8=Label(frame2,text="Flight Name-Id: ")

    l8.grid(row=6,column=0, sticky=W,padx=2)

    w1=Label(frame2,text=From)

    w1.grid(row=0,column=1, sticky=W,padx=2)

    w2=Label(frame2,text=To)

    w2.grid(row=1,column=1, sticky=W,padx=2)

    w3=Label(frame2,text=Date)

    w3.grid(row=2,column=1, sticky=W,padx=2)

    w4=Label(frame2,text=day)

    w4.grid(row=3,column=1, sticky=W,padx=2)

    w5=Label(frame2,text=selected[1])

    w5.grid(row=4,column=1, sticky=W,padx=2)

    w6=Label(frame2,text=selected[2])

    w6.grid(row=5,column=1, sticky=W,padx=2)

    w8=Label(frame2,text=selected[0])

    w8.grid(row=6,column=1, sticky=W,padx=2)

    label2=Label(frame3, text='''Thanks For Using

AYUTAN Booking System''',font="Bold 20",borderwidth = 7,relief="ridge")

    label2.place(relx=0.5,rely=0.5, anchor=CENTER)

    b1=Button(frame3, text="Done", command=b1)

    b1.place(relx=0.5,rely=0.85, anchor=CENTER)

    # b2=Button(frame3, text="Print Ticket", command=Print )

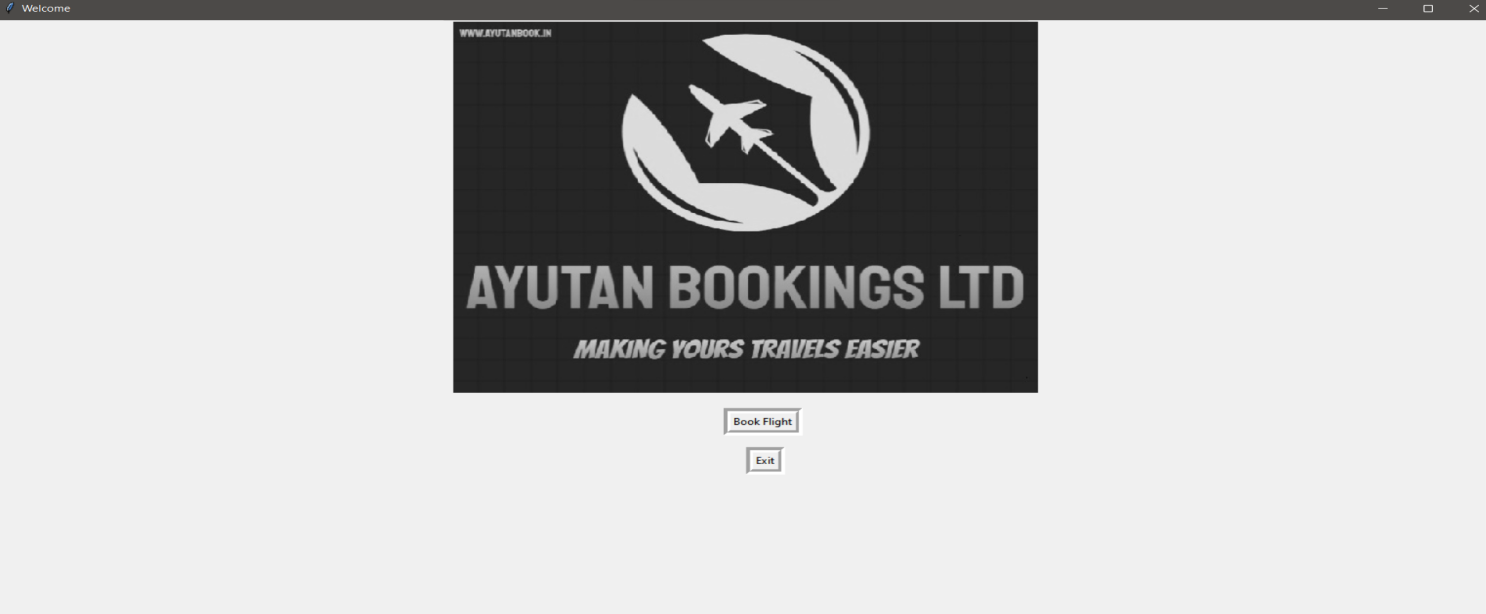
    # b2.place(anchor=CENTRE)

    page.mainloop()

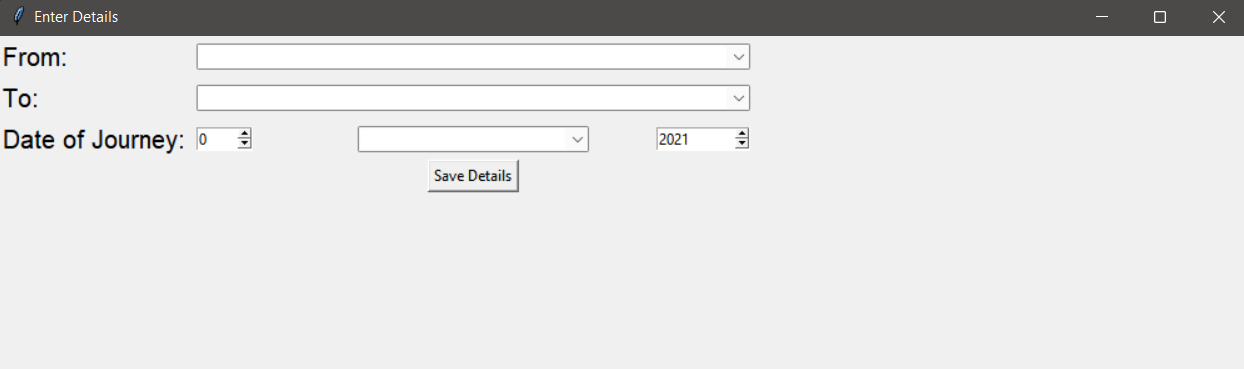
Home\_page()

**OUTPUT**

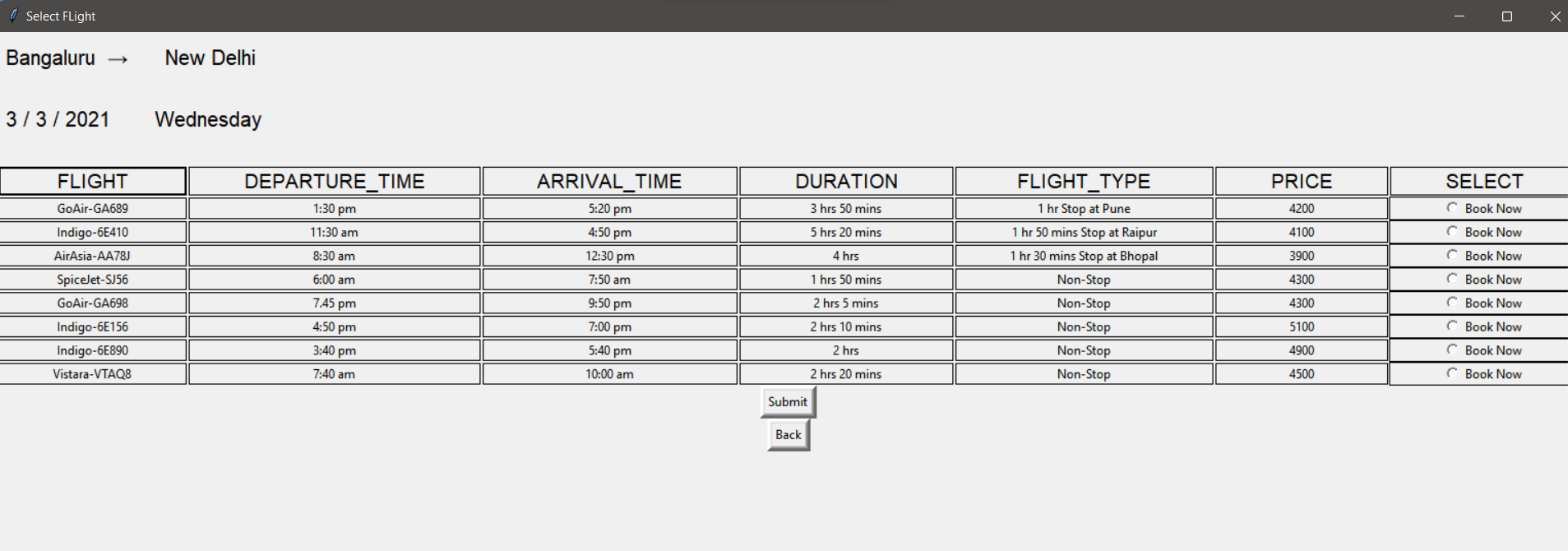
**WINDOW 0- Introductory Page**



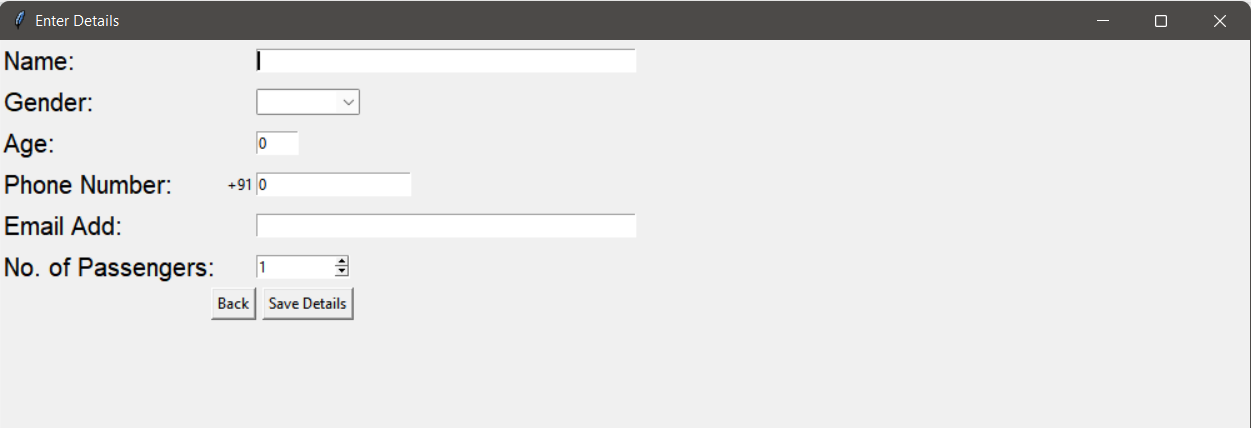
**WINDOW 1 - Travel Details Page**



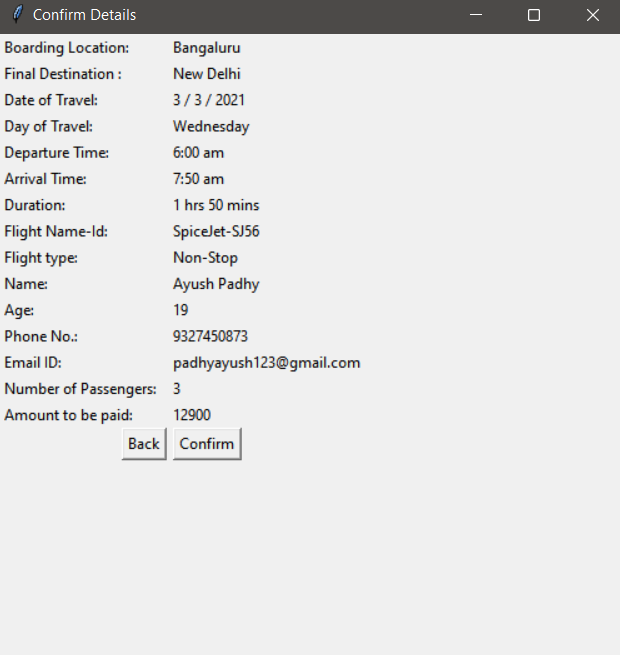
**WINDOW 2 - Flight Details**



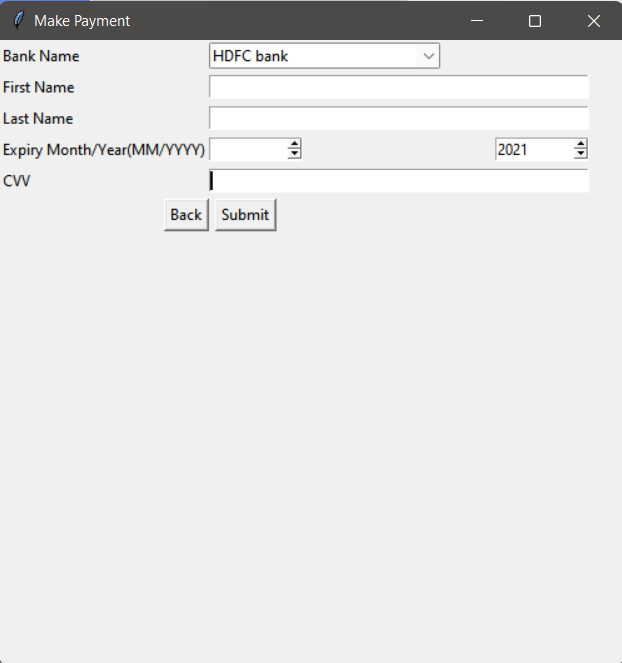
**WINDOW 3 - Contact Details Page**



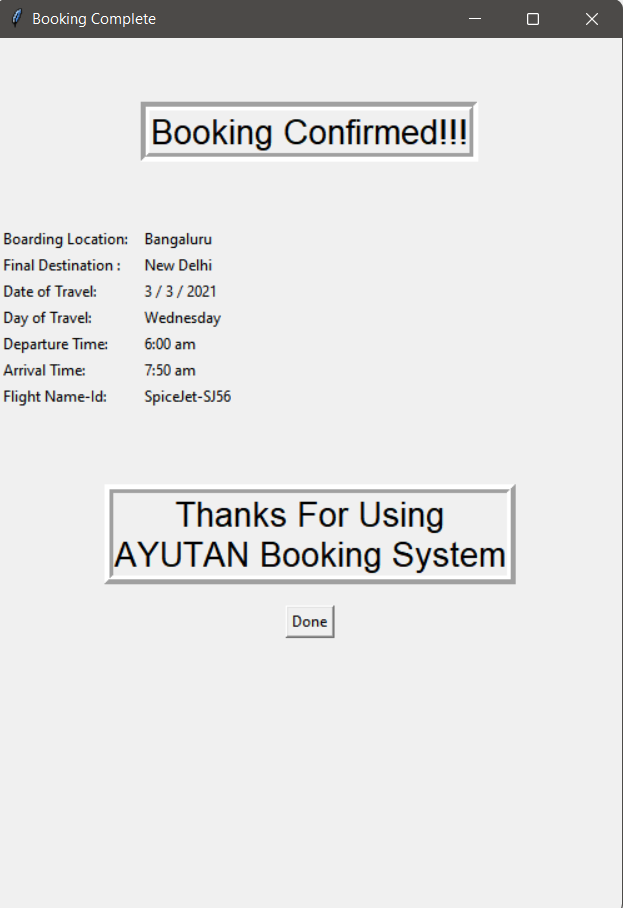
**WINDOW 4 - Confirm Details Page**

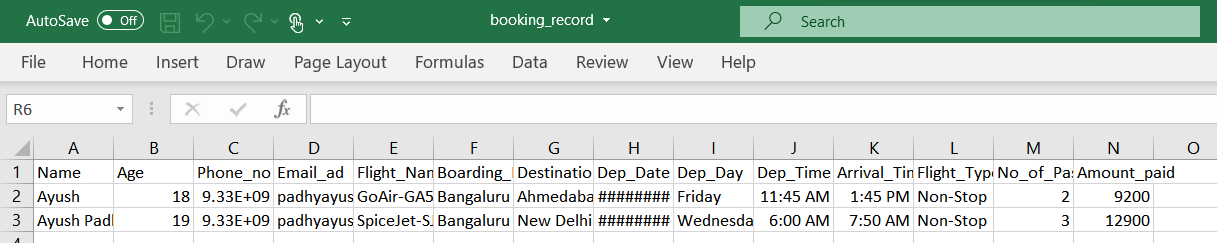


**WINDOW 5 - Payment Details Page**



**WINDOW 6 - Booking Confirm Page**



**ALL BOOKINGS CSV FILE CREATED AT FILE DIRECTORY**  


**HARDWARE AND SOFTWARE REQUIREMENTS**

I.OPERATING SYSTEM : WINDOWS 10 AND ABOVE

II. PROCESSOR : MINIMUM AMD PROCESSER

III. RAM : 2GB+

IV. Hard disk : 100 GB OR ABOVE

**OTHER SOFTWARE REQUIREMENTS:**

* Windows 7 onwards
* Python 3.0 onwards
* MYSQL Latest version

**OTHER REQUIREMENTS:**

1. GUI & CSV Module should be installed in python.
2. Change the password of your MYSQL to that of your desktop for the MYSQL connectivity in python to function.
3. Keep the image “Photo.pmg” in the same folder as of the program for the program to function.

**BIBLIOGRAPHY**

* Computer science With Python - Class XI and XII By : SumitaArora
* Website: geeksforgeeks.com