

Introduction

The airline reservation system project is based on most essential features of Python and MySQL. The project is a combination of use of python programming with RDBMS structure of MySQL tables. This system/software will be used by a travel agent to do the following tasks such as booking a ticket for a passenger, updating the passenger type (Economy/Business) and date of travel of the passenger, cancelling the booking of the customer, ticket printing, getting the passenger reports, storing the customer's details and other booking related tasks and operations. The front end of the project python and back end is based on MySQL. This program includes different features of python such as loops, strings, tuples, concatenations, indexing, nested loops, jump statements etc. For the MySQL part, a lot of DDL commands and complex DML commands are used. The overall program will be in a menu-driven format.

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Certificate

This is to certify that Pranav
Karthikeyan Aiyyer, a student of XII-K
has successfully completed the
research on the below mentioned
Computer Science project under the
guidance of Mr. Pius Mathew during
year 2021-2022. The Project is a part of
the internal assessment of CBSE term 2
examination

Signature of the CS HOD:

Signature of CS teacher:

Acknowledgement

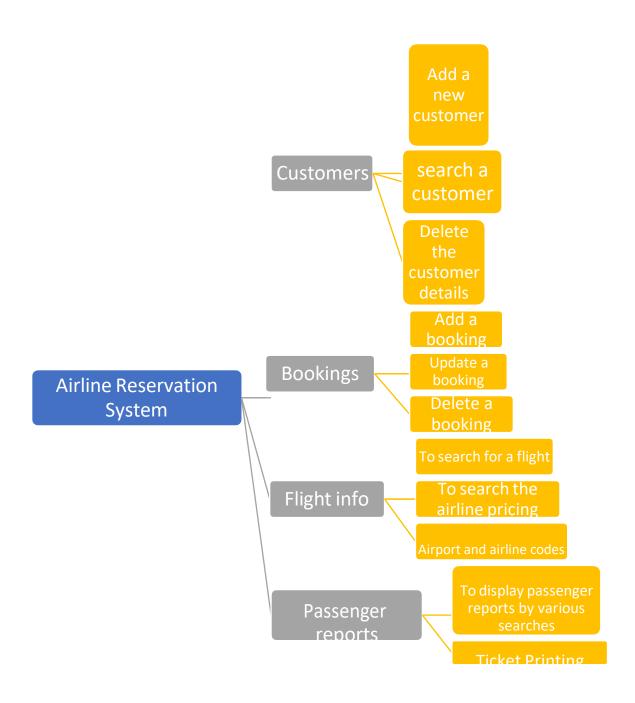
I would like to express my special thanks of gratitude to my teacher Mr. Pius Mathew, who gave me the golden opportunity to do this wonderful software development project on "Airline Reservation system". I would like to thank my teammates - Muhammad Zaid Musaddique Muckba, Adithya Rajashekara Das and Ryan Joswin Cutinho for their contribution. I learnt a lot of new things after doing this project.

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System Analysis

With the help of well-designed functions, the admin can manage the tasks related to the booking of the passenger, storing the airline information, updating the booking details, cancelling the booking details, searching the passenger for a particular PNR number, ticket printing, storing customer details etc. The database has 8 tables. First 2 tables are to store the airline codes and airport codes. The next 2 tables are to store the flight details and the flight pricing of the airlines. The 5th table is to store the customer's personal details such as his/her address, email address, contact number, Name etc. Therefore, the primary key in this fifth table will be a unique customer ID. The last 3 tables are there to store the passenger's booking information and flight booking information such as ticket number, Agency and airline PNR number, flight number and departure time and departure date, date of booking of the passenger, departure city and arrival city of the passenger.

System Design



Source Code

```
# Module bookings
import mysql.connector
from tabulate import tabulate
import datetime
"The function below does the booking for a customer. There are 3 query
statements in the function along with 3
records because the MySQI tables named
'booking_details','booking_flight_details' and 'customer_bookings' are
interrelated to each other by a unique Agency PNR of the customer, so the
records get appended in the those 3 tables
simultaneously in a single function."
def customer_booking():
mydb=mysql.connector.connect(host="localhost",user="root",password="786M
m786",database="airline reservation system")
  mycursor=mydb.cursor()
  mycursor.execute("select max(AGNCY PNR) from booking details;")
  result=mycursor.fetchall()# this code helps us to get the idea about which was
the last agency pnr number
  for k in result:
    for r in k:
      Sum=int(r)+1
  AGNCY_PNR=str(Sum)
  P title=input("Enter customer title:")
```

```
P_Fname=input("Enter First Name:")
  P_Mname=input("Enter the Middle name:")
  P Lname=input("Enter Last Name:")
  P Gender=input("Enter Gender:")
  mycursor.execute("select max(P_TKTno) from booking_details;")
  result=mycursor.fetchall()# the code gives the last ticket number of the
passenger
  for k in result:
    for r in k:
      Sum=int(r)+1
  P_TKTno=str(Sum)
  Book Status="A"
  if P Mname==":
    P_name=P_Fname+' '+P_Lname
  else:
    P name=P Fname+' '+P Mname+' '+P Lname# in the table customers, the
name is in single column but in the table booking_details it is in 3 seperate
columns
                      # therefore the line merges the 3 columns into one so
thet the customer Id from the customers table can be
                     # given to the travel agent for booking.
  mycursor.execute("select cust_Id from customers where cust_name like
```

'%{}%'".format(P name))

```
rt=mycursor.fetchall()
  for k in rt:
    for r in k:
      print()
      print()
      print("The required customer ID is:",r)
  CUST_ID=input("Enter customer ID:")
  mycursor.execute("select max(AL_PNR) from customer_bookings;")
  result=mycursor.fetchall()# this code helps us to get the idea about which was
the last Airline pnr number
  for k in result:
    for r in k:
      Sum=int(r)+1
  AL_PNR=str(Sum)
```

```
Book_Dt=datetime.date.today()
  flgt_dep_city=input("Enter departure city:")
  flgt Arr city=input("Enter arrival city:")
  mycursor.execute("select flight no from flight details where dep city='{}'
and arr_city='{}'".format(flgt_dep_city, flgt_Arr_city))
  nateejas=mycursor.fetchall()
  for k in nateejas:
    for r in k:
      print()
      print()
      print("The available flights are", r, end=' ')
  print()
  print()
  print() # helps the travel agent to get the required flight No for a particular
departure and arrival city
  Flight_no=input("Enter the flight number")
  mycursor.execute("select * from airline flight pricing where dep city='{}' and
Arr_city='{}'".format(flgt_dep_city,flgt_Arr_city))
  result=mycursor.fetchall()
  print("The available flight pricing details for your destination are as follows")
  print(tabulate(result,headers=['Al No','Al Name','Dep City','Arr City','ADT
Eco','ADT First','ADT bsns','CHD Eco','CHD First','CHD
bsns','Crncy','ICAO code'],tablefmt='fancy grid'))
  print()
  print()#gives the pricing details for a particular departure and arrival city
```

```
P_type=input("Enter passenger type:")
  TKT price=input("Enter ticket price:")
  mycursor.execute("select Flight_no,OP_day,dep_time from flight_details
where dep_city='{}' and Arr_city='{}' and
flight_no='{}'".format(flgt_dep_city,flgt_Arr_city,Flight_no))
  results=mycursor.fetchall()
  print("The following is the operating day and the departure time for the
required flight")
  print(tabulate(results,headers=["Flight no","Day","Departure Time"],
tablefmt="fancy grid"))
  print()
  print()
# gives the operating day and departure time for a particular flight number
  flgt dep date=input("Enter departure date (YYYY-MM-DD):")
  flgt Arr date=input("Enter arrival date (YYYY-MM-DD):")
  dep_time=input("Enter the time of departure of the flight")
  flgt status="A"
  rec1=(CUST_ID,AGNCY_PNR,AL_PNR,Book_Dt)
```

```
query1="insert into
customer bookings(CUST ID,AGNCY PNR,AL PNR,Book Dt)values(%s,%s,%s,%s
);"
  mycursor.execute(query1,rec1)
  mydb.commit()
rec2=(AGNCY_PNR,P_title,P_Fname,P_Mname,P_Lname,P_Gender,P_type,TKT_
price,P TKTno,Book Status)
  query2="insert into
booking_details(AGNCY_PNR,P_title,P_Fname,P_Mname,P_Lname,P_Gender,P_
type,TKT_price,P_TKTno,Book_Status)values(%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s);
  mycursor.execute(query2,rec2)
  mydb.commit()
rec3=(AGNCY_PNR,AL_PNR,flgt_dep_date,flgt_dep_city,flgt_Arr_date,flgt_Arr_c
ity,flgt_status,Flight_no,dep_time)
  query3="insert into
booking flight details(AGNCY PNR,AL PNR,flgt dep date,flgt dep city,flgt Ar
r date,flgt Arr city,flgt status,Flight no,dep time)values(%s,%s,%s,%s,%s,%s,
%s,%s,%s);"
  mycursor.execute(query3,rec3)
  mydb.commit()
  print()
  print()
```

```
print("Booking in process",end=' ')
  for k in range(3000000):
    pass
  print(".",end=' ')
  for k in range(3000000):
    pass
  print(".", end=' ')
  for k in range(3000000):
    pass
  print(".", end=' ')
  for k in range(3000000):
    pass
  print(".", end=' ')
  for k in range(30000000):
    pass
  print(".", end=' ')
  for k in range(10000000):
    pass
  print()
  print()
  print("The booking was successful")
# function to update the ticket price of a passenger
def Update_TicketPrice():
```

```
mydb=mysql.connector.connect(host='localhost', user ='root',
password='786Mm786', database="airline reservation system")
  mycursor=mydb.cursor()
  AGNCY PNR=input("Enter the PNR No of the customer")
  mycursor.execute("Select * from booking_flight_details where
AGNCY_PNR='{}'".format(AGNCY_PNR))
  result=mycursor.fetchall()
  for k in result:
    dep city=k[3]
    arr city=k[5]
    flight no=k[7]
  mycursor.execute("select * from airline flight pricing where dep city='{}' and
Arr_city='{}'".format(dep_city,arr_city))
  results=mycursor.fetchall()
  print("The following is the pricing information")
  print(tabulate(results,headers=['Al No','Al Name','Dep City','Arr City','ADT
Eco','ADT First','ADT bsns','CHD Eco','CHD First','CHD
bsns','Crncy','ICAO code'],tablefmt='fancy grid'))
  print()
  print()
  print("The customer's flight number is:",flight_no)
  P_type=input("Enter the new passenger type")
  TKT_price=int(input("Enter the new ticket price"))
  mycursor.execute("Update booking_details set TKT_price={} where
AGNCY PNR= '{}' ".format(TKT price, AGNCY PNR))
```

```
mydb.commit()
  mycursor.execute("Update booking_details set P_type='{}' where
AGNCY_PNR= '{}' ".format(P_type, AGNCY_PNR))
  print("The ticket price and the passenger type has been updated")
  mydb.commit()
# function to update the travel date of the passenger
def Update_TravelDate():
  mydb=mysql.connector.connect(host='localhost', user ='root',
password='786Mm786', database="airline_reservation_system")
  mycursor=mydb.cursor()
  AGNCY PNR=input("Enter the PNR No of the customer")
  mycursor.execute("Select * from booking flight details where
AGNCY PNR='{}'".format(AGNCY PNR))
  result=mycursor.fetchall()
  print("The following is the booking whose travel dates are going to be
updated:")
  print(tabulate(result,headers=["AGNCY PNR","AL PNR","Dep date","Dep
City", "Arrival date", "Arrival city", "STatus", "Flight No", "Dep Time"],
tablefmt='fancy_grid'))
  for k in result:
    flight_no=k[7]
```

```
mycursor.execute("Select OP_Day from flight_details where
flight no='{}'".format(flight no))
  results=mycursor.fetchall()
  for k in results:
    for r in k:
      print("the operating days of this flight are..", r)
  print()
  print()
  Departure_date=input("Enter the new departure date")
  Arrival_date=input("Enter the new arrival date")
  mycursor.execute("Update booking flight details set flgt dep date ='{}'
where AGNCY_PNR='{}'".format(Departure_date,AGNCY_PNR))
  mydb.commit()
  mycursor.execute("Update booking flight details set flgt Arr date ='{}'
where AGNCY_PNR='{}'".format(Arrival_date,AGNCY_PNR))
  mydb.commit()
  print("The travel dates have been updated")
# function to delete the booking of a passenger
def Delete_booking():
  mydb=mysql.connector.connect(host='localhost', user ='root',
password='786Mm786', database="airline reservation system")
```

```
mycursor=mydb.cursor()
  AGNCY PNR=input("Enter the Agency PNR number of the passenger whose
booking is to be cancelled")
  mycursor.execute("Select * from booking_details where
AGNCY_PNR='{}'".format(AGNCY_PNR))
  result=mycursor.fetchall()
  print("The following booking will be deleted:")
print(tabulate(result,headers=['AGNCY_PNR','P_Title','P_Fname','P_Mname','P_
Lname','P Gender','P Type','TKT price','P TKTno','Book Status'],tablefmt='fanc
y_grid'))
  warning=input("Are you sure that you want to delete the booking for this
customer? (y/n)")
  if warning=='y':
    mycursor.execute("Delete from customer bookings where
AGNCY PNR='{}'".format(AGNCY PNR))
    mydb.commit()
    mycursor.execute("Delete from booking flight details where
AGNCY_PNR='{}'".format(AGNCY_PNR))
    mydb.commit()
    mycursor.execute("Delete from booking_details where
AGNCY_PNR='{}'".format(AGNCY_PNR))
    mydb.commit()
    print()
    print()
    print("The booking was deleted")
```

```
elif warning=='n':
    print()
    print()
    print("The booking was retained")
  else:
    print()
    print()
    print("Wrong option entered.... failed to delete the booking")
# Module flight_info
import mysql.connector
from tabulate import tabulate
# function for displaying the details of flights for a paticular departure city and
city of arrival
def flight_details():
```

```
mydb=mysql.connector.connect(host="localhost",user='root',password='786M
m786',database="airline reservation system")
  mycursor=mydb.cursor()
  Dep City=input("Enter the city of departure")
  Arr_City=input("Enter the city of arrival")
  mycursor.execute("select * from flight_details where Dep_city='{}' and
Arr_city='{}'".format(Dep_City,Arr_City))
  result=mycursor.fetchall()
  print(tabulate(result,headers=['Al Code','Al Name','flight no','OP day','Dep
city','Dep time','Arr city','Arr time','flight
hrs','ICAO code'],tablefmt='fancy grid'))
  print(mycursor.rowcount)
# function for displaying the details of all the flights
def flight details of all():
mydb=mysql.connector.connect(host="localhost",user='root',password='786M
m786',database="airline reservation system")
  mycursor=mydb.cursor()
  mycursor.execute("select * from flight_details")
  result=mycursor.fetchall()
  print(tabulate(result,headers=['Al Code','Al Name','flight no','OP day','Dep
city','Dep time','Arr city','Arr time','flight
hrs','ICAO code'],tablefmt='fancy grid'))
  print(mycursor.rowcount)
```

```
# function for displaying the airline flight pricing for a paticular departure city
and city of arrival
def airline_flight_pricing():
mydb=mysql.connector.connect(host="localhost",user='root',password='786M
m786',database="airline reservation system")
  mycursor=mydb.cursor()
  Dep City=input("Enter the city of departure")
  Arr_City=input("Enter the city of arrival")
  mycursor.execute("select * from airline_flight_pricing where Dep_city='{}'
and Arr_City='{}'".format(Dep_City,Arr_City))
  result=mycursor.fetchall()
  print(tabulate(result,headers=['Al No','Al Name','Dep City','Arr City','ADT
Eco','ADT First','ADT bsns','CHD Eco','CHD First','CHD
bsns','Crncy','ICAO code'],tablefmt='fancy grid'))
  print(mycursor.rowcount)
# function for displaying the airline flight pricing of all the flights
def airline_flight_pricing_of_all():
mydb=mysql.connector.connect(host="localhost",user='root',password='786M
m786',database="airline_reservation_system")
  mycursor=mydb.cursor()
  mycursor.execute("select * from airline_flight_pricing")
  result=mycursor.fetchall()
```

```
print(tabulate(result,headers=['Al No','Al Name','Dep City','Arr City','ADT
Eco', 'ADT First', 'ADT bsns', 'CHD Eco', 'CHD First', 'CHD
bsns','Crncy','ICAO code'],tablefmt='fancy grid'))
  print(mycursor.rowcount)
# function for displaying the airline codes of all the airlines
def airline_codes():
mydb=mysql.connector.connect(host="localhost",user='root',password='786M
m786',database="airline reservation system")
  mycursor=mydb.cursor()
  com='select * from airline codes;'
  mycursor.execute(com)
  result=mycursor.fetchall()
  print(tabulate(result,headers=['Airline code','Airline Name','ICAO
code'],tablefmt='fancy_grid'))
  print(mycursor.rowcount)
# function for displaying the airport codes of all the airports
def airport_codes():
mydb=mysql.connector.connect(host="localhost",user='root',password='786M
m786',database="airline reservation system")
  mycursor=mydb.cursor()
  com='select * from airport_codes'
  mycursor.execute(com)
```

```
result=mycursor.fetchall()
  print(tabulate(result,headers=["APcode","APname"],tablefmt='fancy_grid'))
  print(mycursor.rowcount)
# Module customers
import mysql.connector
from tabulate import tabulate
# function for appending the details of the customer
def customer_append():
mydb=mysql.connector.connect(host="localhost",user='root',password='786M
m786',database="airline reservation system")
  mycursor=mydb.cursor()
  Cust_ID=input("Enter the Customer ID")
  Cust_Name=input("Enter the customer's name")
  Cust_add=input("Enter the customer's address")
  Cust_City=input("Enter the customer's City")
```

```
Cust_Country=input("Enter the customer's country")
  Cust_Phone=input("Enter the customer's contact number")
  Cust email=input("Enter the customer's email address")
rec=(Cust_ID,Cust_Name,Cust_add,Cust_City,Cust_Country,Cust_Phone,Cust_e
mail)
  query="insert into
customers(Cust ID,Cust Name,Cust add,Cust City,Cust Country,Cust Phone,C
ust_email) values(%s,%s,%s,%s,%s,%s,%s);"
  mycursor.execute(query,rec)
  mydb.commit()
  print()
  print()
  print("The customer details has been added successfully in the table")
# function for displaying the details of all the customer
def customer detailsofall():
mydb=mysql.connector.connect(host="localhost",user='root',password='786M
m786',database="airline reservation system")
  mycursor=mydb.cursor()
  com='select * from customers;'
  mycursor.execute(com)
  result=mycursor.fetchall()
```

```
print(tabulate(result,headers=['Cust ID','Cust Name','Cust Add','Cust City','Cus
t_Country','Cust_Phone','Cust_email'],tablefmt='fancy_grid'))
  print(mycursor.rowcount,'rows affected')
# function for displaying all the details of a customer for a particular customer
ID
def customer_details():
mydb=mysql.connector.connect(host="localhost",user='root',password='786M
m786',database="airline reservation system")
  mycursor=mydb.cursor()
  Cust_Name=input("Enter the Customer's name")
  mycursor.execute("select * from customers where Cust_name
Like'%{}%'".format(Cust_Name))
  result=mycursor.fetchall()
print(tabulate(result,headers=['Cust ID','Cust Name','Cust Add','Cust City','Cus
t_Country','Cust_Phone','Cust_email'],tablefmt='fancy_grid'))
  print(mycursor.rowcount)
# function for deleting the details of the customer
def customer_delete():
```

```
mydb=mysql.connector.connect(host="localhost",user='root',password='786M
m786',database="airline reservation system")
  mycursor=mydb.cursor()
  Cust ID=input("Enter the ID of the customer")
  query="delete from customers where Cust_ID=%s"
  records=(Cust_ID,)
  mycursor.execute("select * from customers where
CUST ID='{}'".format(Cust ID))
  result=mycursor.fetchall()
  print("This is the customer whose details you want to delete:")
print(tabulate(result,headers=['Cust ID','Cust Name','Cust Add','Cust City','Cus
t_Country','Cust_Phone','Cust_email'],tablefmt='fancy_grid'))
  print()
  print()
  warning=input("Are you sure that you want to delete the details of this
customer? (y/n):")
  if warning=='y':
    mycursor.execute(query,records)
    mydb.commit()
    print("The customer details has been deleted")
  elif warning=='n':
    print()
    print("The customer details were retained")
```

```
# Module passenger_reports
import mysql.connector
from tabulate import tabulate
# function to display the reports of all the customers
def reports_of_all_customers():
mydb=mysql.connector.connect(host="localhost",user='root',password='786M
m786',database="airline_reservation_system")
  mycursor=mydb.cursor()
  com='select * from booking details natural join booking flight details order
by AL PNR;'
  mycursor.execute(com)
  result=mycursor.fetchall()
print(tabulate(result,headers=['AGNCY_PNR','P_Title','P_Fname','P_Mname','P_
Lname','P_Gender','P_Type','TKT_price','P_TKTno','Book_Status','AL_PNR','Flgt_
Dep_Date','Flgt_dep_city','Flgt_Arr_Date','Flgt_Arr_city','Flgt_status','Flight
no','Dep Time'],tablefmt='fancy_grid'))
  print(mycursor.rowcount,"rows affected")
```

```
# function to print the ticket of a passenger
def ticket printing():
mydb=mysql.connector.connect(host="localhost",user="root",password="786M
m786",database="airline_reservation_system")
 mycursor=mydb.cursor()
 P_tktno=input("Enter ticket number:")
 print("
=======| ")
 print("|
                           ት ት ት **** TICKET **** ት ት ት
|")
______
print("|
|")
 mycursor.execute("select
P_title,P_Fname,P_Mname,P_Lname,P_type,P_tktno,Flight_no,AL_PNR,flgt_de
p_date,dep_time,flgt_dep_city,flgt_arr_city from
booking_details,booking_flight_details where
```

```
booking_details.AGNCY_PNR=Booking_flight_details.AGNCY_PNR and
P_tktno='{}'".format(P_tktno))
 result=mycursor.fetchall()
print(tabulate(result,headers=['P_title','P_Fname','P_Mname','P_Lname','P_Typ
e','ticket number','Flight number','PNR
no.','Date','Time','From','To'],tablefmt='fancy_grid'))
 print("|
|")
 print("|
1")
 print("|
1")
 print("| Gate closes 20 minutes before departure
|")
 print("| Please adhere to the airport 1 hour before the departure time.
1")
print("|_____
                         ****** HAVE A PLEASANT JOURNEY
 print("|
                      |")
______
print("|
```

```
print(mycursor.rowcount)
#function to search the passenger for a particular Agency PNR number
def search by PNR():
mydb=mysql.connector.connect(host="localhost",user="root",password="786M
m786",database="airline reservation system")
  mycursor=mydb.cursor()
  AGNCY_PNR=input("Enter the Agency PNR number of the passenger")
  mycursor.execute("select * from booking_details natural join
booking flight details where
booking_details.AGNCY_PNR='{}'".format(AGNCY_PNR))
  result=mycursor.fetchall()
print(tabulate(result,headers=['AGNCY PNR','P Title','P Fname','P Mname','P
Lname','P_Gender','P_Type','TKT_price','P_TKTno','Book_Status','AL_PNR','Flgt_
Dep Date', 'Flgt dep city', 'Flgt Arr Date', 'Flgt Arr city', 'Flgt status', 'Flight
no','Dep Time'],tablefmt='fancy_grid'))
  print(mycursor.rowcount)
```

function to search the passengers travelling from a particular airline

```
def reports of all customers travellingby a flight():
mydb=mysql.connector.connect(host="localhost",user='root',password='786M
m786',database="airline reservation system")
  mycursor=mydb.cursor()
  flight no=input("Enter the flight number whose passenger's reports you want
to get")
  com="select * from booking details natural join booking flight details where
flight no='{}' order by Flgt dep date;".format(flight no)
  mycursor.execute(com)
  result=mycursor.fetchall()
print(tabulate(result,headers=['AGNCY PNR','P Title','P Fname','P Mname','P
Lname','P Gender','P Type','TKT price','P TKTno','Book Status','AL PNR','Flgt
Dep_Date','Flgt_dep_city','Flgt_Arr_Date','Flgt_Arr_city','Flgt_status','Flight
no','Dep Time'],tablefmt='fancy grid'))
  print(mycursor.rowcount,"rows affected")
# Main menu
import mysql.connector
from tabulate import tabulate
from bookings import *
from customers import *
from passenger reports import *
from flight info import *
```

import datetime		
while True:		
print()		
print()		
print()		
print("+=========		
print('	PARZ TRAVELS	l')
	======================================	=======================================
print(" ")	MENU FOR AIRLINE RESERVAT	TION SYSTEM
print(" ====================================	======================================	:=============
print(" 1.) Custor	ner bookings	 ")
print(" 2.) Airline	s and flight info	 ")
print(" 3.) Custor	ner details and info	[")
print(" 4.) Passer	ger reports	[")
print(" 5.) EXIT		[")
print("+		
	+")	
option=int(input("Enter your option"))	
if option==1:		

```
while True:
    print()
    print()
    print()
print('|
                                                |')
                     CUSTOMER BOOKINGS
print("|1.) Booking a new customer
                                                |")
    print("+2.) Updating the ticket price of the passenger
+")
    print("|3.) Updating the departure and arrival date of the passenger
|")
    print("+4.) Deleting the customer booking
                                                  +")
    print("|5.) back
                                         |")
print("+_____
    option=int(input("Enter your option"))
    if option==1:
     customer_booking()
    elif option==2:
     Update_TicketPrice()
    elif option==3:
```

```
Update_TravelDate()
    elif option==4:
     Delete_booking()
    elif option==5:
     break
    else:
     print("Your option does not exist")
 elif option==2:
  while True:
    print()
    print()
    print()
=========+")
    print('|
                      AIRLINES & FLIGHT INFO
|')
print("|1.) To display the flight details of all airlines
1")
    print("+2.) To display the flight details of the airlines for a particular
departure city and arrival city
    print("|3.) To display the airline flight pricing of all the airlines
|")
```

```
print("+4.) To display the airline flight pricing of the airlines for a
particular departure city and arrival city +")
     print("|5.) To display the airline codes
|")
     print("+6.) To display the airport codes
+")
     print("|7.) back
                                                                |")
-----+")
     option=int(input("Enter your option"))
     if option==1:
       flight details of all()
     elif option==2:
       flight_details()
     elif option==3:
       airline_flight_pricing_of_all()
     elif option==4:
       airline_flight_pricing()
     elif option==5:
       airline_codes()
     elif option==6:
       airport_codes()
     elif option==7:
       break
     else:
```

```
print("Your option does not exist")
 elif option==3:
  while True:
    print()
    print()
    print()
=======+")
    print('|
                                              |')
                  CUSTOMER DETAILS & INFO
======+")
    print("|1.) To append the customer details
                                               |")
    print("+2.) To display the details of all the customers
                                                +")
    print("|3.) To search the details of a customer by Name
|")
    print("+4.) To delete the details of a customer
                                               +")
    print("|5.) back
                                      |")
=======+")
    option=int(input("Enter your option"))
    if option==1:
     customer_append()
    elif option==2:
```

```
customer_detailsofall()
    elif option==3:
     customer_details()
    elif option==4:
     customer delete()
    elif option==5:
     break
    else:
     print("Your option does not exist")
 elif option==4:
  while True:
    print()
    print()
    print()
print('|
                                              l')
                    PASSENGER REPORTS
print("|1.) To display the reports of all passengers
1")
    print("+2.) To display the details of the passenger for a particular agency
PNR number
```

```
print("|3.) To print the ticket of the passenger
|")
     print("|4.) To display the reports of all the passengers of a particular
flight
     print("+5.) back
                                                      +")
option=int(input("Enter your option"))
     if option==1:
       reports_of_all_customers()
     elif option==2:
       search_by_PNR()
     elif option==3:
       ticket_printing()
     elif option==4:
       reports_of_all_customers_travellingby_a_flight()
     elif option==5:
       break
     else:
       print("Your option does not exist")
 elif option==5:
   print()
   print()
   print()
   print("Thank You for using our software :)")
```

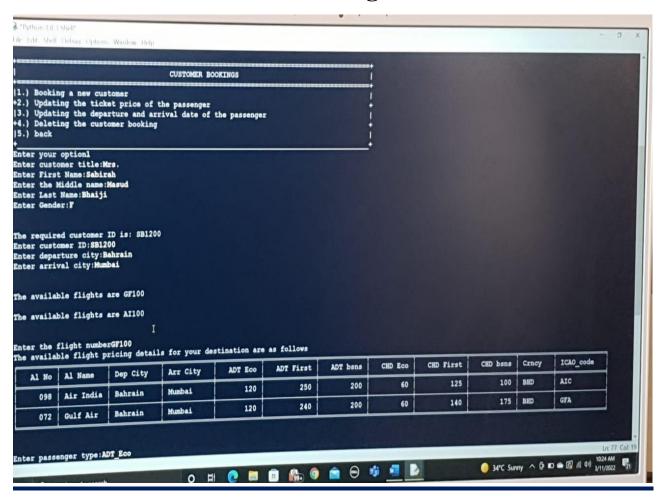
break

else:

print("Your option does not exist")

Sample Output

#Booking



#Booking

Enter passenger type:ADT Eco
Enter ticket price:120
The following is the operating day and the departure time for the required flight

Flight no Day Departure Time

GF100 Sunday 20:00

Enter departure date (YYYY-MM-DD):2022-03-13
Enter arrival date (YYYY-MM-DD):2022-03-13
Enter the time of departure of the flight20:00

Booking in process

The booking was successful

#Customer details

ist_ID	Cust_Name	Cust_Add	Cust_City	Cust_Country	Cust_Phon	e Cust_email
4290	Adithya Rajashekara Das	Roadno-819 blockno-908	West Riffa	Bahrain	3623556	9 adithya1029das@gmail.com
A4444	Atif Aslam	Roadno-128 blockno-969	Karachi	Pakistan	1256798	Atif@gmail.com
14290	Aiden Panvalkar	Roadno-822 blockno-900	East Riffa	Bahrain	36545579	aiden@gmail.com
AN4290	Anushid	Roadno-867 blockno-420	Muharraq	Bahrain	36995579	anushid@gmail.com
AS4290	Amit Shibu	Roadno-827 blockno-920	Muharraq	Bahrain	39095579	amit@gmail.com
AW4290	Ashwin Prem	Roadno-857 blockno-490	Manama	Bahrain	31995579	ashwin@gmail.com
BP0000	Brad Pitt	Roadno-121 blockno-977	San Francisco	USA	13566989	Pitt@gmail.com
BS2345	Ben Stokes	Roadno-645 blockno-977	Manchester	United Kingdom	13577991	Stokes@gmail.com
CC4290	Clement Cammillus	Roadno-897 blockno-590	Manama	Bahrain	11995579	clement@gmail.com
CN4646	Christopher Nolan	Roadno-129 blockno-964	London	United Kingdom	12567980	Christynol@gmail.com
CR7290	Cristiano Ronaldo	Roadno-212 Blockno-673	Porto	Portugal	21377201	cr7@gmail.com
DP4290	Dikpaal Prakashbhai Patel	Roadno-777 blockno-990	Sitra	Bahrain	22995579	dikpaal@gmail.com
EB4290	Elwin Babu	Roadno-444 blockno-123	Sitra	Bahrain	27995579	elwin@gmail.com
EM2345	Eoin Morgan	Roadno-635 blockno-977	Manchester	United Kingdom		Mor@gmail.com
GS4290	Gurpreet Singh	Roadno-333 blockno-223	Zayed Town	Bahrain		gurpreet@gmail.com
HB4221	Hafsah Mohsin Bhaiji	Roadno-123 blockno-245	Mumbai	India		hafsah@gmail.com
ЈВ4646	James Bond	Roadno-129 blockno-969	London	United Kingdom		james@gmail.com
JR2345	Joe Root	Roadno-345 blockno-977	London	United Kingdom		carthika@gmail.com
KS4290	Karthika Suresh	Roadno-273 blockno-163	Zayed Town	Bahrain	20295579 k	archikaegmail.com

#Ticket

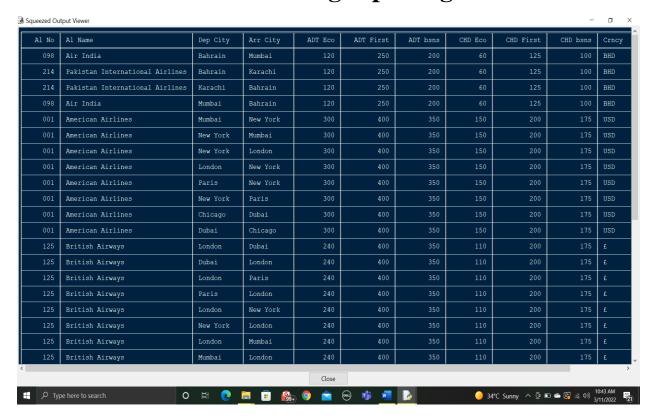
→ → → → → → → → → → → → → → → → → → →											
P_title	P_Fname	P_Mname	P_Lname	P_Type	ticket number	Flight number	PNR no.	Date	Time	From	То
Mrs.	Sabirah	Masud	Bhaiji	ADT_Eco	1231000000014	GF100	1000000014	2022-03-13	20:00	Bahrain	Mumba
Gate	closes 20 mi	nutes before	departure	e the depart	ure time.						
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#Main Menu

#Airline Information



#Airline flight pricing



Conclusion

This project will be very useful for our future IT career, and I would like to thank our school and Mr. Pius Mathew sir for giving us an opportunity to develop a software like this. This project was easily one of the best things we have ever build in our life till now. It will boost one's confidence if he/she is interested in software engineering or software development. The designing of the project will open a creative space also in coding and programming and will thus help those students who are interested in app development or web designing. Logic building was also improved of the students while developing this beautiful project. Python indeed is a very good start for beginners like us since its syntax is easy to grasp and will thus give a lot of confidence to the coding/programming beginners. Finally, I would like to thank all my teammates and my fellow classmates because it was them only who gave me the motivation to improve my software step by step and day by day. I will keep making changes in this software after the final exam and will try to take this project to a commercial level.

THANK YOU!!