AIRLINE RESERVATION SYSTEM

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INTRODUCTION

In today's fast-paced world, the airline industry plays a vital role in connecting people and businesses across the globe. To facilitate efficient management of airline operations, an effective reservation system is essential. This mini project aims to create an Airline Reservation System using the robust combination of MySQL as the database management system and Python for seamless connectivity and functionality.

PROJECT DETAILS

The project deals with:

1) Creation of Air Reservation System in Python 3.7.6 module
2) Displaying option available in flight reservation in Jupyter Notebook
3) Inserting code in Jupyter Notebook
4) Selecting from various conditions in Jupyter Notebook
5) Loading data from mysql database
6) Moving from booking tickets, viewing food menu, calculating food bill, viewing ticket amount, calculating ticket amount and then complete bill of food and ticket in Jupyter Notebook

OVERVIEW

The following project has been designed with a deep insight into the working of the Air Reservation System.

Some of the salient features of the project are:

1) On the beginning, all the options are displayed available for flight booking. After that user needs to choose one option as per their requirement.

2) If the user enters 1 then it will display "to enter passenger data". Then the user needs to enter name, journey date, source and destination. After that it will display "passenger data insertion completed".

3) If the user enters 2 then it will display "to view the class type".

It will display as "Do you want to see class type available: enter 1: for yes". If the user enters 1 then it will display all the class type available in the flight booking .

4) If the user enters 3 then it will display "for ticket amount". It will display "We have the following class for you:". Then it will display the options as

"Enter 1: type is first class for RS 4000 per person\-

Enter 2: type is business class for RS 6000 per person\-

Enter 3: type is economy class for RS 2000 per person\-"

Then the user is asked to enter the choice and number of passenger. If user enters 1 it will displat as "you have opted First class" and it will display the calculated ticket amount. Similarly, for second and third option it will display the output.

5) If the user enters 4 then it will display "for viewing the food menu". It will display "Do you want to see the food menu available:

enter 1 for yes:". If the user enters 1 it will display all the food items available with the flight.

6) If the user enters 5 then it will display "for food bill".
It will display "Do you want to see the food menu available: enter 1: for yes". If the user enters 1 it will show all the food items. After that it asks the user to choice if the user enters 1 then it will display "you have ordered tea" and it asks for the how much quantity do you want and then it calculates the amount for your food item. Similar process for other order items as per the user's choice.

7) If the user enters 6 then it will display "for complete amount". Then the user needs to enter the name, food bill and ticket bill and after that it calculates your complete bill on online air reservation system and then if user enter 7 it will exit.

OUTPUT AND CODING

Code and Output window in Jupyter Notebook:
#code written in Jupyter notebook

1) Main screen :   #1

```
enter the option mentioned above :  [                              ]

AIR TICKET RESERVATION
enter 1:To enter the passenger data
enter 2:To view the classtype
enter 3:for ticket amount
enter 4:for viewing the food menu
enter 5:for food bill
enter 6:for complete amount
enter 7:for exit
```

2) On selecting first option: #2

```
AIR TICKET RESERVATION
enter 1:To enter the passenger data
enter 2:To view the classtype
enter 3:for ticket amount
enter 4:for viewing the food menu
enter 5:for food bill
enter 6:for complete amount
enter 7:for exit
enter the option mentioned above : 1
--------------------------------
enter the name:rohit
enter the jrdate:2020-12-01
enter the source:mumbai
enter the destination:delhi
------------------
passenger data insertion completed
```

3) On selecting second option: #3

```
AIR TICKET RESERVATION
enter 1:To enter the passenger data
enter 2:To view the classtype
enter 3:for ticket amount
enter 4:for viewing the food menu
enter 5:for food bill
enter 6:for complete amount
enter 7:for exit
enter the option mentioned above : 2
-------------------------------
Do you want to see class type available:enter 1: for yes
enter your choice1
(1, 'business', 6000)
(2, 'economy', 2000)
(3, 'firstclass', 4000)
```

4) On selecting third option: #4

```
AIR TICKET RESERVATION
enter 1:To enter the passenger data
enter 2:To view the classtype
enter 3:for ticket amount
enter 4:for viewing the food menu
enter 5:for food bill
enter 6:for complete amount
enter 7:for exit
enter the option mentioned above : 3
---------------------------------
We have the following class for you:
enter 1:type is first class for rs 4000 per person\-
enter 2: type is business class for rs 6000 per person\-
enter 3: type is economy for rs 2000 per person
enter the choice : 2
enter no of passengers : 6
you have opted Business class
your class rent is 36000
```

5) On selecting fourth option: #5

```
AIR TICKET RESERVATION
enter 1:To enter the passenger data
enter 2:To view the classtype
enter 3:for ticket amount
enter 4:for viewing the food menu
enter 5:for food bill
enter 6:for complete amount
enter 7:for exit
enter the option mentioned above : 4
---------------------------------
Do you want to see the food menu available:enter 1 for yes:
enter your choice:1
(1, 'tea', 20)
(2, 'coffee', 30)
(3, 'noodles', 60)
(4, 'pasta', 80)
(5, 'colddrink', 20)
(6, 'sandwich', 50)
```

6) On selecting fifth option: #6

```
AIR TICKET RESERVATION
enter 1:To enter the passenger data
enter 2:To view the classtype
enter 3:for ticket amount
enter 4:for viewing the food menu
enter 5:for food bill
enter 6:for complete amount
enter 7:for exit
enter the option mentioned above : 5
-------------------------------
Do you want to see the food menu available:enter 1: for yes
enter your choice:1
(1, 'tea', 20)
(2, 'coffee', 30)
(3, 'noodles', 60)
(4, 'pasta', 80)
(5, 'colddrink', 20)
(6, 'sandwich', 50)
Do you want to purchase from the above list:enter your choice :
--------------------------
enter your choice:4
you have ordered pasta
enter the quantity10
your amount for pasta is: 800
```

7) On selecting sixth option: #7

```
AIR TICKET RESERVATION
enter 1:To enter the passenger data
enter 2:To view the classtype
enter 3:for ticket amount
enter 4:for viewing the food menu
enter 5:for food bill
enter 6:for complete amount
enter 7:for exit
enter the option mentioned above : 6
---------------------------------
enter the name:harsh
enter the ticketbill:900
your ticketbill: 900
enter the foodbill:1000
your foodbill: 1000
your totalbill: 1900
```

CODING

import os

import platform

import pandas as pd

import mysql.connector as sqltor

1) def menuset():   #1

   import mysql.connector as sqltor

mycon=sqltor.connect(host='localhost',user='root',passwd='mysql',database='bhavesh')

   cursor=mycon.cursor()

```python
print("AIR TICKET RESERVATION")
print("enter 1:To enter the passenger data")
print("enter 2:To view the classtype")
print("enter 3:for ticket amount")
print("enter 4:for viewing the food menu")
print("enter 5:for food bill")
print("enter 6:for complete amount")
print("enter 7:for exit")
userchoice=int(input("enter the option mentioned above : "))
print("-------------------------------")
if(userchoice == 1):
    registercust()
elif(userchoice == 2):
    classtypeview()
elif(userchoice == 3):
    ticketprice()
elif(userchoice == 4):
    foodview()
elif(userchoice == 5):
    foodbill()
elif(userchoice == 6):
    completebill()
elif(userchoice == 7):
    exit()
else:
```

```python
        print("enter the correct choice")
menuset()


2) def registercust():          #2

mycon=sqltor.connect(host='localhost',user='root',passwd='mysql',database='bhavesh')
    cursor=mycon.cursor()
    L=[]
    name=input("enter the name:")
    L.append(name)
    jrdate=input("enter the jrdate:")
    L.append(jrdate)
    source=input("enter the source:")
    L.append(source)
    destination=input("enter the destination:")
    L.append(destination)
    cust=(L)
    q="insert into
pdata(pname,jrdate,source,destination)values(%s,%s,%s,%s);"
    print("------------------")
    print("passenger data insertion completed")
    cursor.execute(q,cust)
    mycon.commit()


3) def classtypeview():          #3
```

```python
mycon=sqltor.connect(host='localhost',user='root',passwd='mysql',database='bhavesh')
    cursor=mycon.cursor()
    print("Do you want to see class type available:enter 1: for yes")
    ch=int(input("enter your choice"))
    if ch==1:
        sql="select * from classtype"
        cursor.execute(sql)
        rows=cursor.fetchall()
        for x in rows:
            print(x)
4) def ticketprice():            #4
    print("We have the following class for you:")
    print("enter 1:type is first class for rs 4000 per person\-")
    print("enter 2: type is business class for rs 6000 per person\-")
    print("enter 3: type is economy for rs 2000 per person")
    x=int(input("enter the choice : "))
    n=int(input("enter no of passengers : "))
    if(x==1):
        print ("you have opted First class")
        h=4000*n
        print("your class rent is",h)
    elif (x==2):
        print ("you have opted Business class")
```

```python
        h=6000*n
        print("your class rent is",h)
    elif (x==3):
        print ("you have opted Economy class")
        h=2000*n
        print("your rent is",h)
    else:
        print ("please choose a class type")
```

5) def foodview():   #5

```python
mycon=sqltor.connect(host='localhost',user='root',passwd='mysql',database='bhavesh')
    cursor=mycon.cursor()
    print("Do you want to see the food menu available:enter 1 for yes:")
    ch=int(input("enter your choice:"))
    if ch==1:
        sql="select * from food"
        cursor.execute(sql)
        rows=cursor.fetchall()
        for x in rows:
            print(x)
```

```python
6) def foodbill():          #6

mycon=sqltor.connect(host='localhost',user='root',passwd='mysql',database='bhavesh')
    cursor=mycon.cursor()
    print("Do you want to see the food menu available:enter 1: for yes")
    ch=int(input("enter your choice:"))
    if ch==1:
        sql="select * from food"
        cursor.execute(sql)
        rows=cursor.fetchall()
        for x in rows:
            print(x)
    print("Do you want to purchase from the above list:enter your choice :")
    print("---------------------------")
    d=int(input("enter your choice:"))
    if d==1:
        print("you have ordered tea")
        a=int(input("enter the quantity:"))
        s=20*a
        print("your amount for tea is:",s)
    elif d==2:
        print("you have ordered coffee")
```

```python
    a=int(input("enter the quantity:"))
    s=30*a
    print("your amount for coffee is:",s)
elif d==3:
    print("you have ordered noodles")
    a=int(input("enter the quantity:"))
    s=60*a
    print("your amount for noodles is:",s)
elif d==4:
    print("you have ordered pasta")
    a=int(input("enter the quantity"))
    s=80*a
    print("your amount for pasta is:",s)
elif d==5:
    print("you have ordered colddrink")
    a=int(input("enter the quantity:"))
    s=20*a
    print("your amount for colddrink is:",s)
elif d==6:
    print("you have ordered sandwich")
    a=int(input("enter the quantity:"))
    s=50*a
    print("your amount for sandwich is:",s)
else:
    print("please enter your choice from the menu")
```

```python
7) def completebill():        #7

mycon=sqltor.connect(host='localhost',user='root',passwd='mysql',database='bhavesh')
    cursor=mycon.cursor()
    L=[]
    name=input("enter the name:")
    L.append(name)
    t=int(input("enter the ticketbill:"))
    print("your ticketbill:",t)
    L.append(t)
    f=int(input("enter the foodbill:"))
    print("your foodbill:",f)
    L.append(f)
    y=(t+f)
    to=print("your totalbill:",(t+f))
    L.append(y)
    bill=(L)
    q="insert into bill(name,ticketbill,foodbill,totalbill)values(%s,%s,%s,%s)"
    cursor.execute(q,bill)
    mycon.commit()
```