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Jaishree
Sowjanya

Overview of Python

Python is a high-level, interpreted, interactive and object-oriented scripting language. Python is designed to be highly readable. It uses English keywords frequently where as other languages use punctuation, and it has fewer syntactical construction than other languages.

Guido Van Rossum conceived python in the late 1980s. It was released in 1991 at centrum wiskunde & information (CWI) in the Netherlands as a successor to the ABC language.

• Interpreted Language: python is processed at runtime by python interpreter.

• Object-Oriented Language: It supports object-oriented features and techniques of programming.

• Interactive Programming Language: Users can interact with the python interpreter directly for writing programs.

• Easy Language: Python is easy to learn, especially for beginners.

• Straightforward Syntax: The formation of python syntax is simple and straightforward, which also makes it popular.

• Easy to Read: Python source-code is clearly defined and visible to the eyes.

• Portable: Python codes can be run on a wide variety of hardware platform having the same interface.

• Extendable: users can add low level-modules to python interpreter.

• Scalable: Python provides an improved structure for supporting large programs then shell-scripts

What You Can Do with Python

Python is used to create web and desktop applications, and some of the most popular web applications like Instagram, YouTube, Spotify all have been developed in python. You can also develop the next big thing by using python

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Synopsis

This project is a program based on Airline Booking System. It provides a service for the user.

The user can book tickets for domestic flights using the program.

The member record displays the registration name, member name and the book issued. Members can be added to the list, deleted from the list and any change to the list can be made.

The Book List displays the book no, Name, and record. Books can be added, deleted and updated in the list. It also provides an option to view descriptions of the books in the list.

Once a book has been issued to a member, the record is saved and a fine is issued if the book has not been returned on time.

This program provides a clear and comprehensible set of functions that is easy to use and vastly effective for any library.

MySQL Tables

Select MySQL 8.0 Command Line Client

```
 for the right syntax to use near 'from food' at line 1
mysql> select * from food;
+------+-----------+------+
| sno  | itemname  | rate |
+------+-----------+------+
|    1 | tea       |   10 |
|    2 | coffee    |   10 |
|    3 | colddrink |   20 |
|    4 | sandwich  |   50 |
|    5 | Dhokla    |   30 |
|    6 | kachori   |   10 |
|    7 | milk      |   20 |
|    8 | noodles   |   50 |
|    9 | pasta     |   50 |
|   10 | samosa    |   10 |
+------+-----------+------+
```

Select MySQL 8.0 Command Line Client

```
mysql> select * from classtype;
+------+-------------+-------+
| sno  | classtype   | price |
+------+-------------+-------+
| 1    | Firstclass  |  6000 |
| 2    | Busiclass   |  4000 |
| 3    | Ecoclass    |  2000 |
+------+-------------+-------+
3 rows in set (0.02 sec)
```

```
mysql> select * from pdata;
+--------------+-------------------------+------------+-------------+------------+
| custname     | addr                    | jrdate     | destination | departure  |
+--------------+-------------------------+------------+-------------+------------+
| Zaid         | 22,Ram Nagar,Coimbatore | 15/02/2021 | Chennai     | Coimbatore |
| Srinitish    | 01,T.Nagar,Chennai      | 31/03/2021 | Mumbai      | Chennai    |
| Vaishnavikha | 12,Avarampalayam,Mumbai | 07/3/2021  | Delhi       | Mumbai     |
+--------------+-------------------------+------------+-------------+------------+
3 rows in set (0.00 sec)

mysql> select * from bill;
+--------------+--------------+------------+--------+---------------+--------------+
| name         | ticket_price | food_price | weight | luggage_price | total_amount |
+--------------+--------------+------------+--------+---------------+--------------+
| Zaid         |        12000 |         40 |     10 |          1000 |        13040 |
| Srinitish    |         4000 |         50 |     20 |          2000 |         6050 |
| Vaishnavikha |        12000 |        100 |     15 |          1500 |        13600 |
+--------------+--------------+------------+--------+---------------+--------------+
3 rows in set (0.00 sec)

mysql>
```

Coding

```
import mysql.connector as mysql
global z
v=mysql.connect(host='localhost',user='root',passwd='123456',database=
'hotel')
mycursor=v.cursor()
def registercust():
        global name
        L=[]
        print("CUSTOMER DETAILS")
        name=input("Enter name:")
        L.append(name)
        addr=input("Enter address:")
        L.append(addr)
        jr_date=input("Enter date of journey:")
        L.append(jr_date)
        destination=input("Enter destination:")
        L.append(destination)
        cust=(L)
        departure=input("Enter place of departure:")
        L.append(departure)
        sql="insert into
        pdata(custname,addr,jrdate,destination,departure)values(%s,%s,%
        s,%s,%s)"
        mycursor.execute(sql,cust)
        v.commit()
        return name
def classtypeview():
        print("CLASS TYPE")
def ticketprice():
        global s
        print ("We have the following rooms for you:")
        print ("1.  type First class:₹6000-")
```

```
        print ("2.  type Business class:₹4000")
        print ("3.  type Economy class:₹2000-")
        x=int(input("Enter Your Choice Please->"))
        n=int(input("No of passenger:"))
        if(x==1):
                print ("You have opted First class")
                s=6000*n
        elif (x==2):
                print ("You have opted Business class")
                s=4000*n
        elif (x==3):
                print ("You have opted Economy class")
                s=2000*n
        else:
                print ("please choose a class type")
                print ("Ticket cost =₹",s,"\n")
                return s
def menuview():
                print()

def orderitem():
        A4=input("Do you want to order food(y/n):")
        if A4=="y":
                print("Menu available:")
                sql="select * from food"
                mycursor.execute(sql)
                rows=mycursor.fetchall()
                for x in rows:
                        print(x)
        A5=0
        A6=0
        A7=0
        A8=0
        A9=0
        A10=0
```

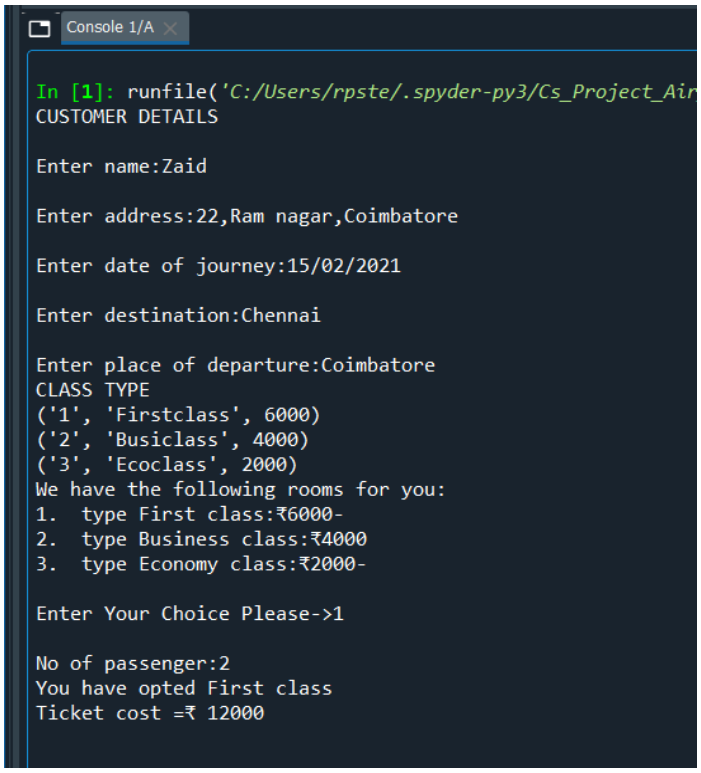
```
A11=0
A12=0
A13=0
A14=0
m1="y"
global A
while m1=="y":
d=int(input("Enter your choice:"))
if d==1:
        print("You have ordered tea")
        a=int(input("Enter quantity:"))
        A5+=(10*a)
        print("Your amount for tea is :",A5,"\n")
elif d==2:
        print("You have ordered coffee")
        a=int(input("Enter quantity:"))
        A6+=(10*a)
        print("Your amount for coffee is :",A6,"\n")
elif d==3:
        print("You have ordered cold drink")
        a=int(input("Enter quantity:"))
        A7+=(20*a)
        print("Your amount for cold drink is :",A7,"\n")
elif d==10:
        print("You have ordered samosa")
        a=int(input("Enter quantity:"))
        A8+=(10*a)
        print("Your amount fopr samosa is :",A8,"\n")
elif d==4:
        print("You have ordered sandwich")
        a=int(input("Enter quantity:"))
        A9+=(50*a)
        print("Your amount fopr sandwich is :",A9,"\n")
elif d==5:
        print("You have ordered dhokla")
```

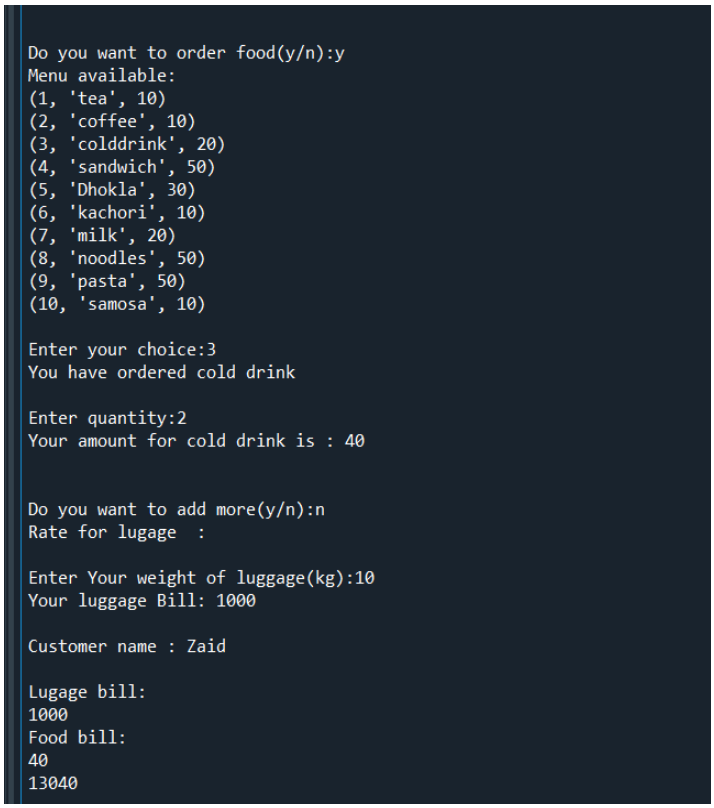
```
            a=int(input("Enter quantity"))
            A10+=(30*a)
            print("Your amount for dhokla is :",A10,"\n")
        elif d==6:
            print("You have ordered kachori")
            a=int(input("Enter quantity:"))
            A11+=(10*a)
            print("Your amount for kachori is :",A11,"\n")
        elif d==7:
            print("You have ordered milk")
            a=int(input("Enter quantity:"))
            A12+=(20*a)
            print("Your amount for kachori is :",A12,"\n")
        elif d==8:
            print("You have ordered noodles")
            a=int(input("Enter quantity:"))
            A13+=(50*a)
            print("Your amount for noodles is :",A13,"\n")
        elif d==9:
            print("You have ordered pasta")
            a=int(input("Enter quantity:"))
            A14+=(50*a)
            print("Your amount for pasta is :",A14,"\n")
        else:
            print("Please Enter your choice from the menu")
        m1=input("Do you want to add more(y/n):")
        A=A5+A6+A7+A8+A9+A10+A11+A12+A13+A14
        return A
def lugagebill():
        global z
        global y
        y=int(input("Enter Your weight of luggage(kg):"))
        z=y*100
        print("Your luggage Bill:",z,"\n")
        return y
```

```
        return z
def ticketamount():
        print("BILL:")
        print("Customer name :",name,"\n")
        print("Lugage bill:")
        print(z)
        print("Food bill:")
        print(A)
        t=s+A+z
        print(t)
        mycursor.execute("insert into bill
        values('{}',{},{},{},{},{})".format(name,s,A,y,z,t))
        v.commit()

def Menuset():
        for i in range(1,8):

                if(i==1):
                        registercust()
                elif(i==2):
                        classtypeview()
                elif(i==3):
                        ticketprice()
                elif(i==4):
                        menuview()
                elif(i==5):
                        orderitem()
                elif(i==6):
                        lugagebill()
                elif(i==7):
                        ticketamount()
                Menuset()
```

```
while True:
    g=input("Do you want to continue(y/n):")
    if g=="y":
      Menuset()
    else:
      break
```

Output Screens





Conclusion

The project Airline Booking System is for computerizing the working in a library which immensely decreases the manpower required for booking tickets and helps to perform quick reservations and manage all data.

The software takes care of all the requirements that one might need during booking a ticket and ensures that he is offered a ticket with utmost ease. The software provides option of various classes that the passenger can travel and also provides him/her with a choice of meal.

It provides the user with a detailed bill showing all the expenses.

Limitations

1. This system requires knowledgeable people to use the system.
2. Online fees collection is not recognized.
3. It does not cover paying staff salaries.
4. It does not store the date of when the book is issued nor returned.
5. Cannot retrieve data once it is deleted.
6. Doesn't provide online services for any users.

Software and Hardware Requirements

1. Operating System: Windows 10 pro
2. Processor: Intel(R) Core (TM) i3-3110M CPU @ 2.40GHz
3. Motherboard: Intel HP G6-1000 DA0R13MB6E0
4. RAM: 4.00 GB
5. System Type: 64-bit Operating System, x64-Based Processor
6. Laptop 14.1 Inch, Keyboard & Mouse
7. Printer

Bibliography & References

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3. https://airport-authority.com/browse-IN