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1. **Introduction of the Project**

We the students of CLASS XII A, CHETTINAD VIDYA MANDIR, KARUR have been assigned the Project “FOODIE”. To perform this task, Subaraksha R.T and Swetha M were made into group. We divided the work among ourselves. Swetha is responsible for database creation and finding the mistakes in coding and checking for the correctness of the results. Subaraksha took the work of coding in Python. Now and then, we discussed about the shortcomings of the project and rectified it immediately.

The project Foodie is a python application which is built to order food items. The objective of the project is to provide a platform for the customer to order food items from various hotels. The project displays all the menu items to the customer as provided by the hotel owners. The customer can order items, pay for the items and update the order. The hotel owners can view the orders and add their menu.

**Process**

First we discussed about the functionalities of the project. We grouped the functionalities of the project into modules. Similar operations we grouped into modules. We listed it and got verified from the teacher.

The following are the different modules identified for the project:

* Insert
  + - Add Customers, Add Hotel, Add Menu, Add Orders
* Delete
  + - Hotels, Delete Menu, Delete Orders
* Update
  + - Update Orders, Pay, Update Customer Wallet
* View
  + - View Customers, View Hotels, View Menu
* Search
  + - Search Menu

Secondly, we discussed about the tables and fields and created tables in MySQL.

Next, the coding is written using Python language which we have took around 2 months to complete the coding.

The following are the tables created in MySQL:

* Customers
  + - Phone\_no, Name, Address, wallet
* Hotels
  + - Hotel\_id, Hotel\_name, Phone\_no, Address,wallet
* Menu
  + - Menu\_id, Menu\_name, Type, Category, Price, Hotel\_id
* Order
  + - Order\_id, Menu\_id, Hotel\_id, Phone\_no, Qty, Amt, Pay\_status, Date

Next, we provided the input and checked for the correctness. We changed the coding if it is not working correctly.

Finally, we prepared the project report as per the format.

1. **System Requirements of the Project**

|  |  |  |
| --- | --- | --- |
| Processor | : | Intel(R) Pentium(R) CPU N3540 @ 2.16GHz |
| RAM | : | 4.00 GB |
| Operating System | : | Windows 10 Home |
| Language | : | Python 3.7 |
| Database | : | MySQL 8 |
| Packages | : | Mysql connector, tabulate |

1. **Python Coding**

**User Choice.py**

Here we have written the code to display the list of operations that can be performed by customer and hotel owner. For each of the operations we have called the function which is defined in project.py file. The project.py is imported as module in the choice.py file.

import project as p

import sys

opt='y'

while(opt):

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

print("\t\t\tFOODIE\t")

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

print("\n\t\t 1. Add Customers ")

print("\t\t 2. View Customers ")

print("\t\t 3. Add Hotels ")

print("\t\t 4. Delete Hotels ")

print("\t\t 5. Add Menu ")

print("\t\t 6. Delete Menu ")

print("\t\t 7. Search Menu ")

print("\t\t 8. Order Food")

print("\t\t 9. Edit Order")

print("\t\t 10. Pay ")

print("\t\t 11. View Orders ")

print("\t\t 12. Add Wallet ")

print("\t\t 13. Contact Us ")

print("\t\t 14. Exit \n")

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

choice=int(input("Enter your choice of operation:"))

if (choice==1):

p.cust\_add()

elif (choice==2):

p.cust\_view()

elif (choice==3):

p.hotel\_add()

elif (choice==4):

p.hotel\_del()

elif (choice==5):

p.menu\_add()

elif (choice==6):

p.menu\_del()

elif (choice==7):

p.menu\_search()

elif (choice==8):

p.order\_add()

elif (choice==9):

p.order\_edit()

elif (choice==10):

p.pay()

elif (choice==11):

p.order\_view()

elif (choice==12):

p.wallet\_add()

elif (choice==13):

print("\n\t\t Bulk Orders Accepted ... Contact: Ph.No:995256646 mail\_id:subaraksha@gmail.com")

elif (choice==14):

print("\n\t\t Thank You... Visit Again!!!")

sys.exit()

else:

print("Enter a valid choice..")

opt=input('Do You Want To Continue? y/n : ')

if (opt!='y'):

break

**Project.py**

This python code file contains all the function definitions for the operations of the project. We have use mysql connector package to connect python with mysql. The results are formatted using tabulate package.

import mysql.connector as pymy

connect=pymy.connect(user="root",password="root",host="localhost",database="foodie")

if connect.is\_connected()==True:

print("connection successful")

cursor=connect.cursor()

from tabulate import tabulate

def cust\_add():

Name=input("Enter your Name:")

Address=input("Enter your Address:")

Phone\_no=int(input("Enter your Phone number:"))

Wallet=float(input("Enter your Wallet Amount:"))

cursor.execute("insert into customers(Name,Address,Phone\_no,Wallet) values(%s,%s,%s,%s)",(Name,Address,Phone\_no,Wallet))

connect.commit()

def cust\_view():

cursor.execute("select \* from customers")

a=cursor.fetchall()

print(tabulate(a, headers=['Name', 'Address','Phone\_no','Wallet']))

def hotel\_add():

Hotel\_id=input("Enter the Hotel id:")

Hotel\_name=input("Enter the Hotel Name:")

Phone\_no=input("Enter the Phone number:")

Address=input("Enter the Address:")

cursor.execute("insert into hotels(Hotel\_id,Hotel\_name,Phone\_no,Address) values(%s,%s,%s,%s)",(Hotel\_id,Hotel\_name,Phone\_no,Address))

connect.commit()

def hotel\_view():

cursor.execute("select \* from hotels")

a=cursor.fetchall()

print(tabulate(a, headers=['Hotel\_id','Hotel\_name','Phone\_no','Address','Wallet']))

def hotel\_del():

hotel\_view()

hotl\_id=input("Enter the Hotel id:")

Del="""delete from hotels where Hotel\_id=%s"""

cursor.execute(Del,(hotl\_id,))

connect.commit()

hotel\_view()

def menu\_add():

Menu\_id=input("Enter the Menu id:")

Menu\_name=input("Enter the Menu Name:")

Type=input("Enter V or NV:")

Category=input("Enter the Category:")

Price=float(input("Enter the Price:"))

Hotel\_id=input("Enter the Hotel id:")

cursor.execute("insert into menu(Menu\_id,Menu\_name,Type,Category,Price,Hotel\_id) values(%s,%s,%s,%s,%s,%s)",(Menu\_id,Menu\_name,Type,Category,Price,Hotel\_id))

connect.commit()

menu\_view()

def menu\_view():

cursor.execute("select \* from menu")

a=cursor.fetchall()

print(tabulate(a,headers=['Menu\_id','Menu\_name','Type','Category','Price','Hotel\_id']))

def menu\_search():

print("How do you want to Search?")

print("Press 1 for Dish, 2 for Type, 3 for Hotel")

ch=int(input("Enter your choice for search:"))

if (ch==1):

d=input("Enter dish name for search:")

query1="""select menu.Menu\_name,menu.Price, hotels.Hotel\_name from menu,hotels where menu.Menu\_name=%s and menu.Hotel\_id=hotels.Hotel\_id"""

cursor.execute(query1,(d,))

a=cursor.fetchall()

print(tabulate(a, headers=['Menu\_name','Menu\_Price','Hotel\_name']))

elif (ch==2):

d=input("Enter Type of food (V/NV):")

query1="""select menu.Menu\_name,menu.Price,menu.Type,hotels.Hotel\_name from menu,hotels where menu.Type=%s and menu.Hotel\_id=hotels.Hotel\_id"""

cursor.execute(query1,(d,))

a=cursor.fetchall()

print(tabulate(a, headers=['Menu\_name','Menu\_Price','Type','Hotel\_name']))

elif (ch==3):

d=input("Enter Hotel Name:")

query1="""select menu.Menu\_name,menu.Price,menu.Type,hotels.Hotel\_name from menu,hotels where hotels.Hotel\_name=%s """

cursor.execute(query1,(d,))

a=cursor.fetchall()

print(tabulate(a, headers=['Menu\_name','Menu\_Price','Type','Hotel\_name']))

def menu\_del():

menu\_view()

print()

H\_id=input("Enter the Hotel id:")

M\_id=input("Enter the Menu id:")

Del="""delete from menu where Hotel\_id=%s and Menu\_id=%s"""

cursor.execute(Del,(H\_id,M\_id,))

connect.commit()

menu\_view()

def order\_view():

cursor.execute("select \* from orders")

a=cursor.fetchall()

print(tabulate(a,headers=['Order\_id','Qty','Amt','Date','Pay\_status','Menu\_id','Hotel\_id','Phone\_no']))

def order\_add():

menu\_view()

Phone\_no=int(input("Enter your Phone number:"))

Hotel\_id=input("Enter the Hotel id:")

Menu\_id=input("Enter the Menu id:")

Qty=int(input("Enter the Quantity:"))

Query="""select Price from menu where menu.Menu\_id=%s and menu.Hotel\_id=%s"""

cursor.execute(Query,(Menu\_id,Hotel\_id))

P=cursor.fetchone()

cursor.execute("insert into orders(Menu\_id,Hotel\_id,Qty,Amt,Phone\_no) values(%s,%s,%s,%s,%s)",(Menu\_id,Hotel\_id,Qty,P[0]\*Qty,Phone\_no))

connect.commit()

order\_view()

def pay():

p\_no=input("Enter your Phone number while you made order:")

query="select \* from orders where orders.Phone\_no=%s"

cursor.execute(query,(p\_no,))

S=cursor.fetchone()

if S[4]=="Pending":

r\_amt=S[2]

query1="select Wallet from customers where customers.Phone\_no=%s"

cursor.execute(query1,(p\_no,))

S1=cursor.fetchone()

if S1[0]>r\_amt:

bal=S1[0]-r\_amt

query2="""update customers set Wallet=%s where customers.Phone\_no=%s"""

cursor.execute(query2,(bal,p\_no))

connect.commit()

cust\_view()

print("Customer Wallet updated")

h\_id=S[6]

print(h\_id)

query4="""update hotels set Wallet=Wallet + %s where hotels.Hotel\_id=%s"""

cursor.execute(query4,(r\_amt,h\_id))

connect.commit()

hotel\_view()

query3="""update orders set Pay\_status="Paid" where orders.Phone\_no=%s"""

cursor.execute(query3,(p\_no,))

connect.commit()

print("Order status updated")

order\_view()

ch=input("Do you want a bill(y/n):")

if (ch=='y'):

bill()

else:

print("Thank you...Visit again.")

else:

print("Insufficent Balance")

Del="""delete from orders where Phone\_no=%s"""

cursor.execute(Del,(p\_no,))

connect.commit()

print("Order Cancelled")

def wallet\_add():

cust\_view()

p\_no=input("Enter your Phone number:")

amt=int(input("Enter the amount to be added"))

change="""update customers set Wallet=Wallet + %s where customers.Phone\_no=%s"""

cursor.execute(change,(amt,p\_no))

connect.commit()

cust\_view()

def view\_menu():

cursor.execute("select \* from menu")

a=cursor.fetchall()

print(a,end="")

connect.commit()

def order\_edit():

print("Which of the following details you wanna edit?")

print("1.Phone\_no")

print("2.Menu\_id")

print("3.Qty")

edit=int(input("Choose your option"))

order\_view()

Order\_id=int(input("Enter your Order id"))

if edit==1:

Phone\_no=int(input("Enter the Phone number:"))

change="""update orders set Phone\_no=%s where Order\_id=%s"""

cursor.execute(change,(Phone\_no,Order\_id))

connect.commit()

if edit==2:

Menu\_id=input("Enter the Menu id:")

change="""update orders set Menu\_id=%s where Order\_id=%s"""

cursor.execute(change,(Menu\_id,Order\_id,))

connect.commit()

if edit==3:

Qty=int(input("Enter the Quantity:"))

change="""update orders set Qty=%s where Order\_id=%s"""

cursor.execute(change,(Qty,Order\_id,))

connect.commit()

order\_view()

def order\_del():

Order\_id=input("Enter the Order id:")

Del="""delete from orders where Order\_id=%s"""

cursor.execute(Del,(Order\_id,))

connect.commit()

def bill():

order\_view()

O\_id=int(input("Enter your Order id:"))

query="""select \* from orders,hotels,menu where orders.Order\_id=%s and orders.Hotel\_id=hotels.Hotel\_id and orders.Menu\_id=menu.Menu\_id"""

cursor.execute(query,(O\_id,))

result=cursor.fetchone()

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

print("Hotel Name: ",result[9], "\t Date:",result[3])

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

print("Item:", result[14])

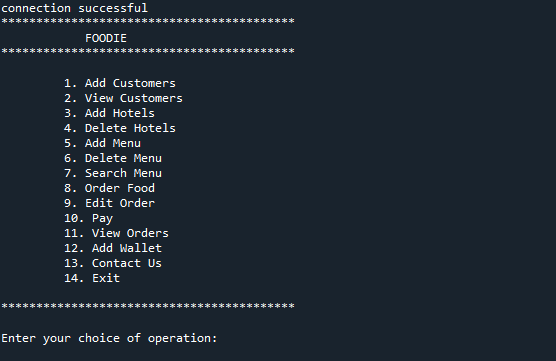
print("Amount:", result[2])

print("Status:",result[4])

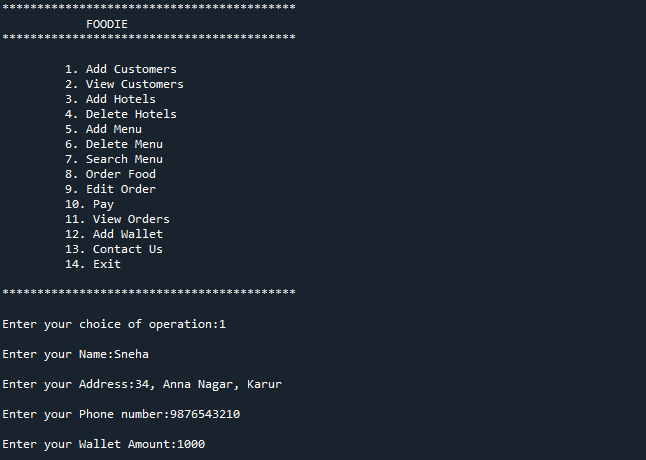
print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

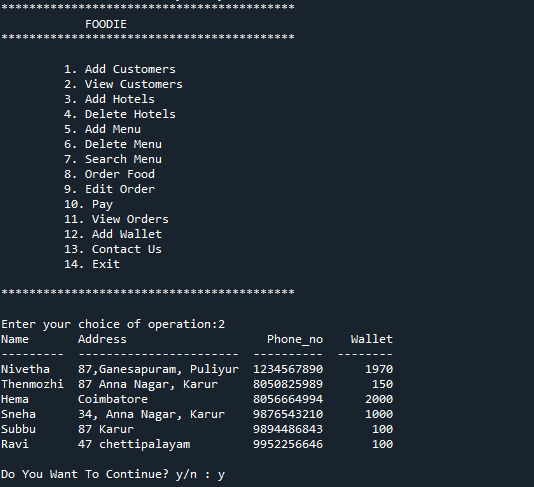
1. **Output of the Project**

**Main Screen**

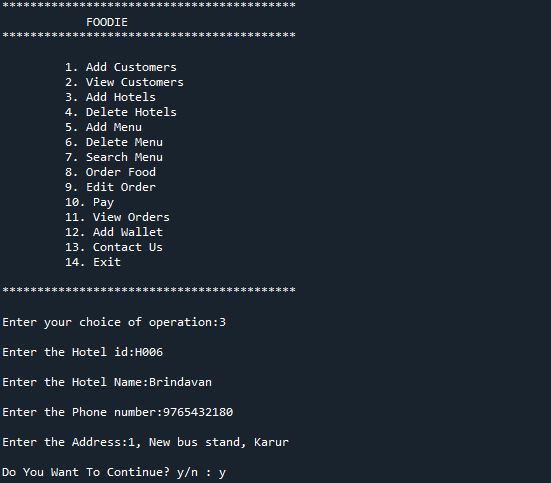
****

**Add Customers**

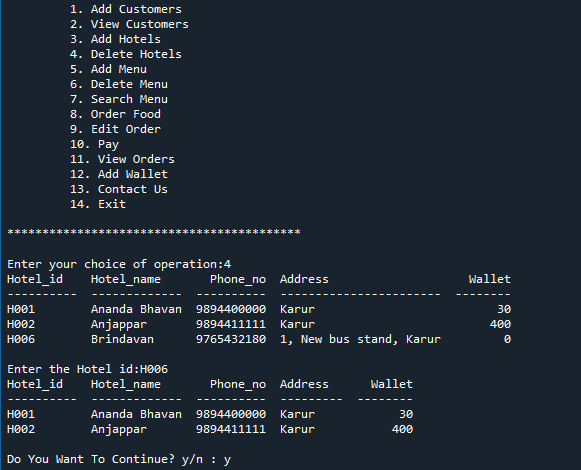


**View Customers**

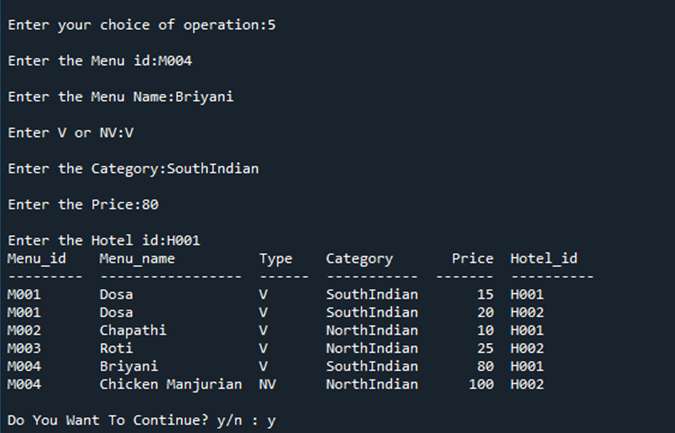
**Add hotels**



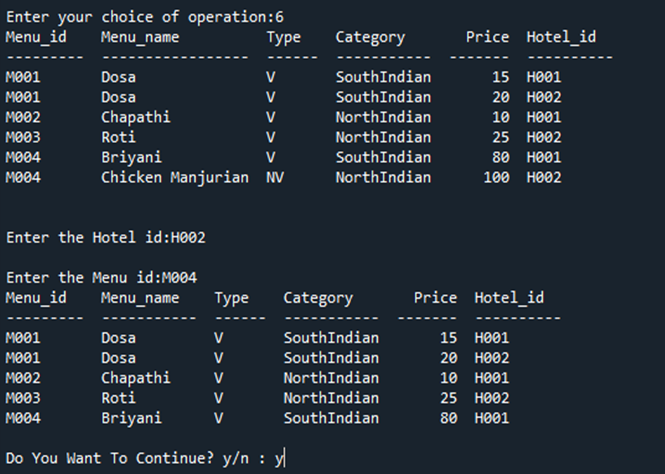
**Delete Hotel**



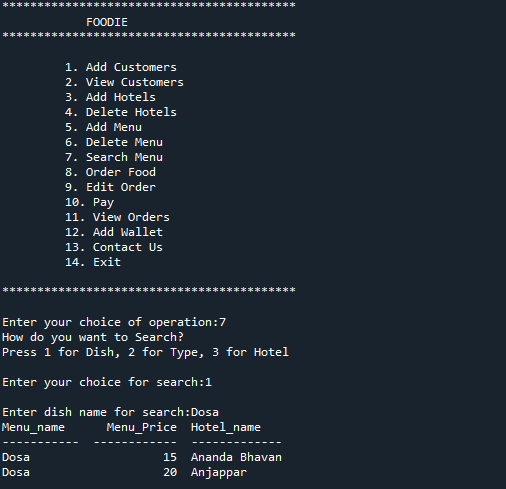
**Add Menu**



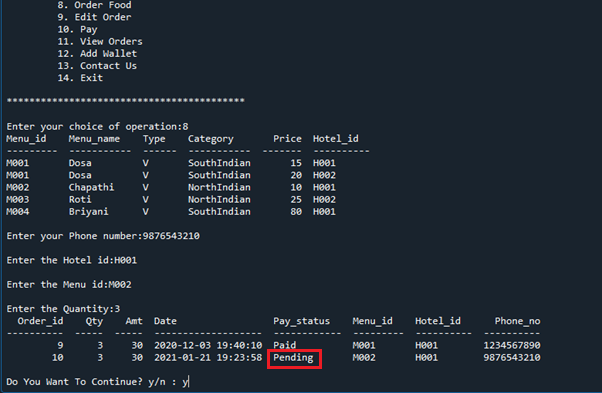
**Delete Menu**



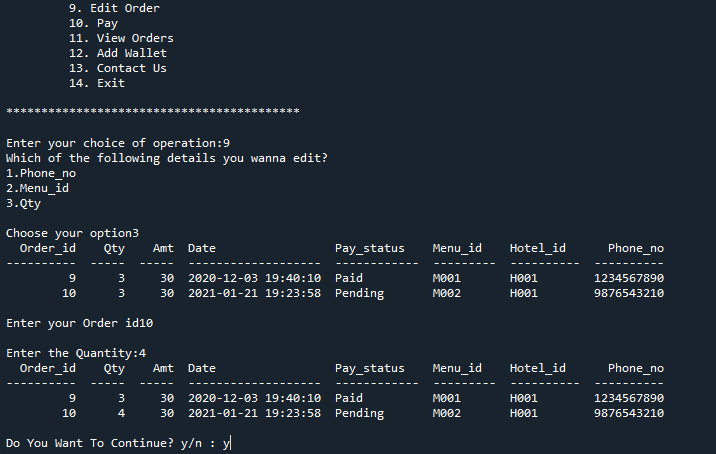
**Search Menu**



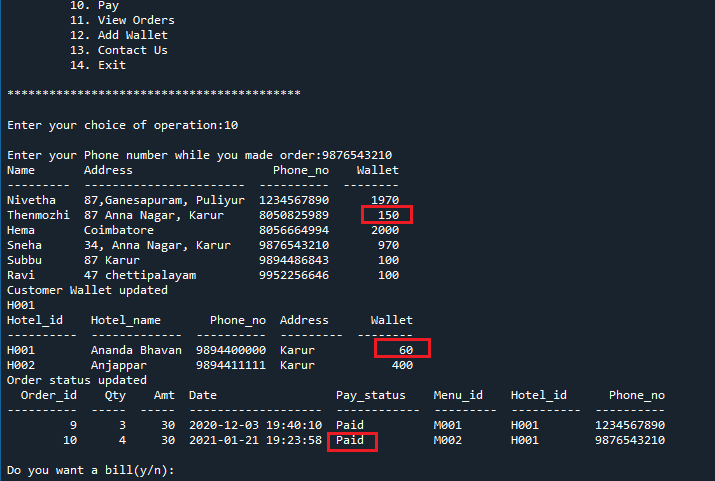
**Order Food**

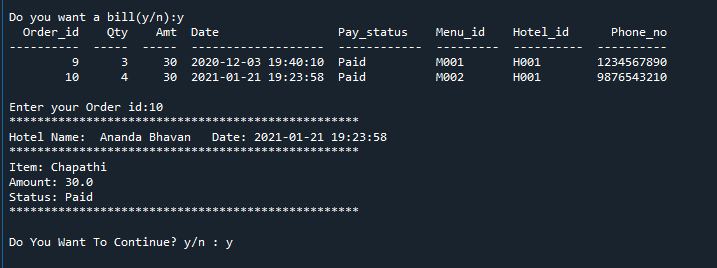


**Edit Order**

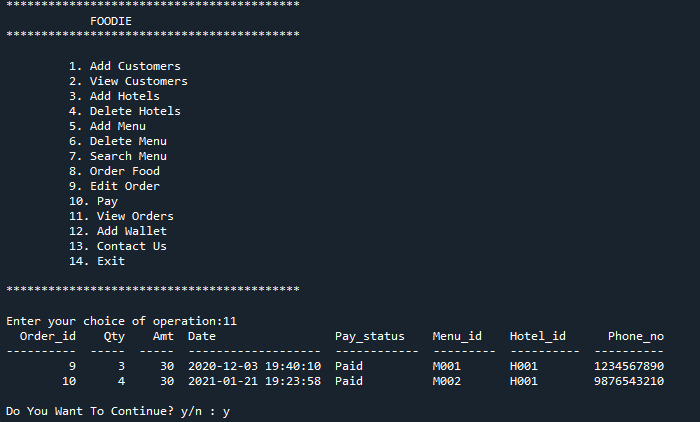


**Pay Bill**

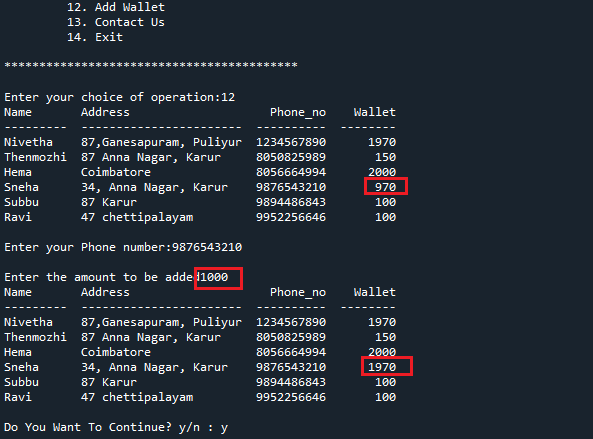




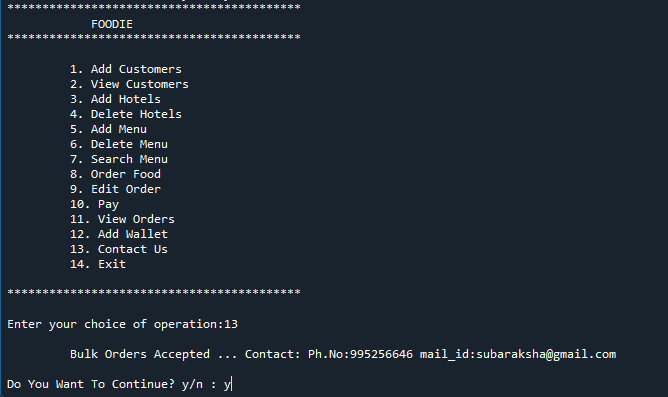
**View Orders**



**Add Money to Wallet**



**Contact Us**



**Exit**



1. **References**
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3. www.codeacademy.com
4. www.programiz.com
5. www.pythonchallenge.com
6. www.programcreek.com
7. www.learnpython.org
8. www.w3schools.com