INTRODUCTION

Restaurant Management project is designed using SQL as the Backend and Python as front end. SQL is a structured query language which facilitates the storage of databases in the form of tables. Python is one of the emerging programming languages which is widely used by many organizations for software development process. Thus with the help of these two softwares this project has been developed

A restaurant is a business that prepares and serves food and drinks to customers. This project is designed with the different menus to do the basic operations of a restaurant. The software can be used by restaurants to do their business in an easy and efficient way.

The project has three logins namely admin, user and others. Admin is being created to have overall control of managing the entire software except editing the feedback given by the customers. Users have rights to add/delete a food menu, add a branch, view the booking details. Others login is designated for customers. They can view the food menu, add a booking, add or delete the feedback for their orders.

Admin login includes the following sub menus

1. Food menu
2. Stock
3. Branches
4. Staff info
5. Gross
6. Booking
7. Feedback
8. Exit

The Users login include submenus like

1. Food menu
2. Branches
3. Booking
4. Exit

The others login include

1. Food menu

2. Booking

3. Feedback

4. Exit

The project is designed in such a way that if more than two operations are performed in the same login, then it will ask for password for security reasons.

O b j e c t i v e s

This project is designed with the following objectives

Primary objective:

1. To design a restaurant management system using SQL as backend and Python as front end.

Secondary objectives:

Based on the primary objective the following secondary objectives are framed

1. To design an Admin menu with functions like Food Menu maintenance, Stock maintenance, branches maintenance, staff info maintenance, Accounts maintenance, Booking details maintenance and feedback view.
2. To design user menu with functions like food menu maintenance, branches maintenance, and viewing the booking details.
3. To design others menu for customer to perform functions like viewing food menu, ordering food and giving feedback for orders

System requirements & Specifications

Front End (Python):

- Processors: Intel® Core™ i5 processor 4300M at 2.60 GHz or 2.59 GHz (1 socket, 2 cores, 2 threads per core), 8 GB of DRAM Intel® Xeon® processor E5-2698 v3 at 2.30 GHz (2 sockets, 16 cores each, 1 thread per core), 64 GB of DRAM Intel® Xeon Phi™ processor 7210 at 1.30 GHz (1 socket, 64 cores, 4 threads per core), 32 GB of DRAM, 16 GB of MCDRAM (flat mode enabled)

- Disk space: 2 to 3 GB

- Operating systems: Windows® 10, MacOS, and Linux*

Back End (SQL):

Processor - Minimum: 1 GHz (x86 processor) or 1.4 GHz (x64 processor) or 1.0 GHz (IA64 processor)
Recommended: 2 GHz or faster (dual-core or quad-core will be much faster)
Limitations: SQL Server Express supports 1 physical processor, 1 GB memory, and 10 GB storage.
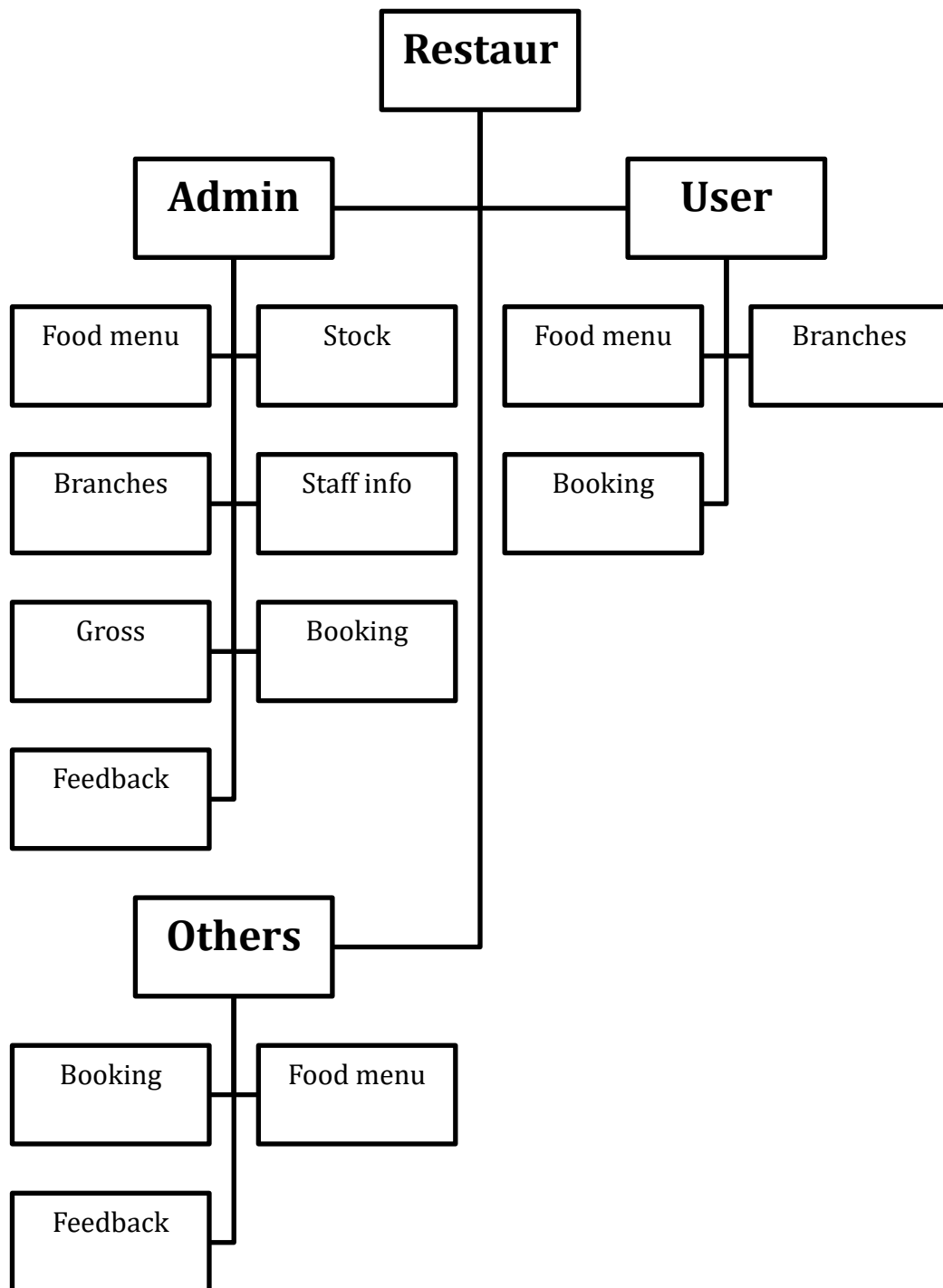**Memory -** Minimum: 4 GB RAM
Recommended: 8 GB RAM or Greater (more RAM up to 32 GB, better performance)
SQL Version- Microsoft SQL Server 2014 Express is provided with Miracle Service.
Miracle Service SQL database is also compatible with: Microsoft SQL Server 2008 R2, Microsoft SQL Server 2012 R2 and SQL Express 2012 R2.
Available Disk Space Minimum: 100 GB Free Disk Space on C: Drive

Workflow

```
                        ┌──────────┐
                        │ Restaur  │
                        └────┬─────┘
                             │
     ┌──────────┐            │            ┌──────────┐
     │  Admin   ├────────────┼────────────┤  User    │
     └────┬─────┘            │            └────┬─────┘
          │                  │                 │
  ┌───────────┐ ┌──────────┐ │      ┌───────────┐ ┌──────────┐
  │ Food menu ├─┤  Stock   │ │      │ Food menu ├─┤ Branches │
  └───────────┘ └──────────┘ │      └───────────┘ └──────────┘
          │                  │                 │
  ┌───────────┐ ┌──────────┐ │      ┌───────────┐
  │ Branches  ├─┤ Staff info│ │      │ Booking   │
  └───────────┘ └──────────┘ │      └───────────┘
          │                  │
  ┌───────────┐ ┌──────────┐ │
  │  Gross    ├─┤ Booking  │ │
  └───────────┘ └──────────┘ │
          │                  │
  ┌───────────┐              │
  │ Feedback  ├──────────────┘
  └───────────┘
          │
     ┌──────────┐
     │  Others  ├──────────┘
     └────┬─────┘
          │
  ┌───────────┐ ┌──────────┐
  │ Booking   ├─┤ Food menu│
  └───────────┘ └──────────┘
          │
  ┌───────────┐
  │ Feedback  │
  └───────────┘
```

C o d e

```python
import time
#establishing connectivity
import pymysql
food=pymysql.connect(host='localhost',user='root',password='shailesh@2003',database='hotel')
cursor=food.cursor()
#output for restaurant
def out():
    print('^'*167)
    print('^'*167)
    print()
    print(' '*75,'RESTAURANT LOGIN',' '*75)
    print()
    print('^'*167)
    print('^'*167)
    print('\n'*2)
    print('1)Admin')
    time.sleep(0.5)
    print('\n'*1)
    print('2)User')
    time.sleep(0.5)
    print('\n'*1)
    print('3)Others')
    time.sleep(0.5)
    print('\n'*2)
    print('*'*167)
    print('\n'*2)
out()
#admin details
def admin():
    print('1)Food menu')
    time.sleep(0.5)
    print('\n'*1)
    print('2)Stock')
    time.sleep(0.5)
    print('\n'*1)
    print('3)Branches')
    time.sleep(0.5)
    print('\n'*1)
    print('4)Staff info')
    time.sleep(0.5)
    print('\n'*1)
    print('5)Gross')
    time.sleep(0.5)
    print('\n'*1)
    print('6)Booking')
    time.sleep(0.5)
    print('\n'*1)
    print('7)Feedback')
```

```python
    time.sleep(0.5)
    print('\n'*1)
    print('8)Exit')
#user details
def user():
    print('1)Food menu')
    time.sleep(0.5)
    print('\n'*1)
    print('2)Branches')
    time.sleep(0.5)
    print('\n'*1)
    print('3)Booking')
    time.sleep(0.5)
    print('\n'*1)
    print('4)Exit')
#other details
def other():
    print('1)Food menu')
    time.sleep(0.5)
    print('\n'*1)
    print('2)Booking')
    time.sleep(0.5)
    print('\n'*1)
    print('3)Feedback')
    time.sleep(0.5)
    print('\n'*1)
    print('4)Exit')

a=int(input('Enter your selection :'))

#outfoodmenu
def showfood():
    cursor.execute('select * from foodmenu')
    data=cursor.fetchall()
    for row in data:
        print(row)
    print('\n'*2)
    print('*'*167)
#addfoodmenu
def addfood():
    code=input('Enter Itemcode:')
    name=input('Enter Itemname:')
    quan=input('Enter Quantity:')
    price=input('Enter Price:')
    typ=input('Enter Type:')
    add="insert into foodmenu values('{}','{}','{}','{}','{}')".format(code,name,quan,price,typ)
    cursor.execute(add)
    food.commit()
    print("Values Insertion Succesful")
    print('\n'*2)
    print('*'*167)
#removefoodmenu
```

```python
def remfood():
    del1=input('Enter the value of Foodcode:')
    rem="delete from foodmenu where food_code='{}'".format(del1)
    cursor.execute(rem)
    food.commit()
    print("Values Deletion Succesful")
    print('\n'*2)
    print('*'*167)
#showstock
def showstock():
    cursor.execute('select * from stock')
    data=cursor.fetchall()
    for row in data:
        print(row)
    print('\n'*2)
    print('*'*167)
#addstock
def addstock():
    scode=input('Enter Itemcode:')
    sname=input('Enter Itemname:')
    squan=input('Enter Quantity:')
    sprice=input('Enter Price:')
    styp=input('Enter Type:')
    add="insert into stock values('{}','{}','{}','{}','{}')".format(scode,sname,squan,sprice,styp)
    cursor.execute(add)
    food.commit()
    print("Values Insertion Succesful")
    print('\n'*2)
    print('*'*167)
#remstock
def remstock():
    del1=input('Enter the value of stockcode:')
    rem="delete from stock where stock_code='{}'".format(del1)
    cursor.execute(rem)
    food.commit()
    print("Values Deletion Succesful")
    print('\n'*2)
    print('*'*167)
#showbranch
def showbranch():
    cursor.execute('select * from branches')
    data=cursor.fetchall()
    for row in data:
        print(row)
    print('\n'*2)
    print('*'*167)
#addbranch
def addbranch():
    scode=input('Enter Branchcode:')
    sname=input('Enter Branchname:')
    addr=input('Enter Address:')
    loc=input('Enter Locality:')
```

```python
    tel=input('Enter Telephone:')
    web=input('Enter Website:')
    add="insert into branches
values('{}','{}','{}','{}','{}','{}')".format(scode,sname,addr,loc,tel,web)
    cursor.execute(add)
    food.commit()
    print("Values Insertion Succesful")
    print('\n'*2)
    print('*'*167)
#rembranch
def rembranch():
    del1=input('Enter the value of Branchcode:')
    rem="delete from branches where branch_code='{}'".format(del1)
    cursor.execute(rem)
    food.commit()
    print("Values Deletion Succesful")
    print('\n'*2)
    print('*'*167)
#showstaff
def showstaff():
    cursor.execute('select * from staff_info')
    data=cursor.fetchall()
    for row in data:
        print(row)
    print('\n'*2)
    print('*'*167)
#addstaff
def addstaff():
    scode=input('Enter Staffid:')
    sname=input('Enter Staff Designation:')
    sal=input('Enter Salary:')
    exp=input('Enter Experience(in years):')
    qual=input('Enter Qualification:')
    add="insert into staff_info values('{}','{}','{}','{}','{}')".format(scode,sname,sal,exp,qual)
    cursor.execute(add)
    food.commit()
    print("Values Insertion Succesful")
    print('\n'*2)
    print('*'*167)
#remstaff
def remstaff():
    del1=input('Enter the value of Staffcode:')
    rem="delete from staff_info where info_id='{}'".format(del1)
    cursor.execute(rem)
    food.commit()
    print("Values Deletion Succesful")
    print('\n'*2)
    print('*'*167)
#showgross
def showgross():
    cursor.execute('select * from gross')
    data=cursor.fetchall()
```

```python
    for row in data:
        print(row)
    print('\n'*2)
    print('*'*167)
#addgross
def addgross():
    scode=input('Enter Grosscode:')
    sname=input('Enter Gross Name:')
    income=input('Enter Income:')
    prof=input('Enter Profit(in %):')
    gtype=input('Enter Gross Type:')
    add="insert into gross values('{}','{}','{}','{}','{}')".format(scode,sname,income,prof,gtype)
    cursor.execute(add)
    food.commit()
    print("Values Insertion Succesful")
    print('\n'*2)
    print('*'*167)
#remgross
def remgross():
    del1=input('Enter the value of Grosscode:')
    rem="delete from gross where gross_code='{}'".format(del1)
    cursor.execute(rem)
    food.commit()
    print("Values Deletion Succesful")
    print('\n'*2)
    print('*'*167)
#showbooking
def showbooking():
    cursor.execute('select * from booking')
    data=cursor.fetchall()
    count=cursor.rowcount
    print('Total number of bookings:',count)
    for row in data:
        print(row)
    print('\n'*2)
    print('*'*167)
#addbooking
def addbooking():
    bid=input('Enter Booking Id:')
    bplace=input('Enter Preferred place:')
    bname=input('Enter Customer Name:')
    bdate=input('Enter Booking Date:')
    bpay=input('Enter Total Pay:')
    add="insert into booking values('{}','{}','{}','{}','{}')".format(bid,bplace,bname,bdate,bpay)
    cursor.execute(add)
    food.commit()
    print("Values Insertion Succesful")
    print('\n'*2)
    print('*'*167)
#rembooking
def rembooking():
    del1=input('Enter the value of Booking Id:')
```

```python
    rem="delete from booking where Order_id='{}'".format(del1)
    cursor.execute(rem)
    food.commit()
    print("Values Deletion Succesful")
    print('\n'*2)
    print('*'*167)


#showfeed
def showfeed():
    cursor.execute('select * from feedback')
    data=cursor.fetchall()
    count=cursor.rowcount
    print('Total number of feedbacks:',count)
    for row in data:
        print(row)
    print('\n'*2)
    print('*'*167)
#addfeed
def addfeed():
    bid=input('Enter Feedback Id:')
    bplace=input('Enter your Name:')
    bname=input('Enter your Location:')
    bdate=input('Enter Date of visit:')
    bpay=input('Enter Dine in/ Take Out:')
    baa=input('Enter Food quality:')
    bab=input('Enter Overall Rating:')
    add="insert into feedback
values('{}','{}','{}','{}','{}','{}','{}')".format(bid,bplace,bname,bdate,bpay,baa,bab)
    cursor.execute(add)
    food.commit()
    print("Values Insertion Succesful")
    print('\n'*2)
    print('*'*167)
    print("Feedback Insertion Succesful")
    print('\n'*2)
    print('*'*167)
#remfeed
def remfeed():
    del1=input('Enter the value of Name:')
    rem="delete from feedback where Name='{}'".format(del1)
    cursor.execute(rem)
    food.commit()
    print("Feedback Deletion Succesful")
    print('\n'*2)
    print('*'*167)
def adminout1():
    print('*'*167)
    print(' '*75,'Food Menu',' '*75)
    print('\n'*2)
    print('1)Show Food Menu')
    time.sleep(0.5)
    print('\n'*1)
```

```python
        print('2)Add an Item')
        time.sleep(0.5)
        print('\n'*1)
        print('3)Remove an Item')
        time.sleep(0.5)
        print('\n'*1)
        print('4)Exit')
        print('\n'*2)
        for i in range(0,100):
            food=int(input('Enter your Choice for foodmenu:'))
            if food==1:
                showfood()
            elif food==2:
                addfood()
            elif food==3:
                remfood()
            elif food==4:
                print('Thank you')
                print('\n'*2)
                print('*'*167)
                break

def adminout2():
    print('*'*167)
    print(' '*75,'Stock Details',' '*75)
    print('\n'*2)
    print('1)Show Stock Details')
    time.sleep(0.5)
    print('\n'*1)
    print('2)Add a Stock')
    time.sleep(0.5)
    print('\n'*1)
    print('3)Remove a Stock')
    time.sleep(0.5)
    print('\n'*1)
    print('4)Exit')
    print('\n'*2)
    for i in range(0,100):
        stock=int(input('Enter your Choice for stock:'))
        if stock==1:
            showstock()
        elif stock==2:
            addstock()
        elif stock==3:
            remstock()
        elif stock==4:
            print('Thank you')
            print('\n'*2)
            print('*'*167)
            break

def adminout3():
```

```python
        print('*'*167)
        print(' '*75,'Branch Details',' '*75)
        print('\n'*2)
        print('1)Show Branch Details')
        time.sleep(0.5)
        print('\n'*1)
        print('2)Add a Branch')
        time.sleep(0.5)
        print('\n'*1)
        print('3)Remove a Branch')
        time.sleep(0.5)
        print('\n'*1)
        print('4)Exit')
        print('\n'*2)
        for i in range(0,100):
            branch=int(input('Enter your Choice for branch:'))
            if branch==1:
                showbranch()
            elif branch==2:
                addbranch()
            elif branch==3:
                rembranch()
            elif branch==4:
                print('Thank you')
                print('\n'*2)
                print('*'*167)
                break

    def adminout4():
        print('*'*167)
        print(' '*75,'Staff Details',' '*75)
        print('\n'*2)
        print('1)Show Staff Details')
        time.sleep(0.5)
        print('\n'*1)
        print('2)Add an info')
        time.sleep(0.5)
        print('\n'*1)
        print('3)Remove an info')
        time.sleep(0.5)
        print('\n'*1)
        print('4)Exit')
        print('\n'*2)
        for i in range(0,100):
            staff=int(input('Enter your Choice for staff:'))
            if staff==1:
                showstaff()
            elif staff==2:
                addstaff()
            elif staff==3:
                remstaff()
            elif staff==4:
```

```python
            print('Thank you')
            print('\n'*2)
            print('*'*167)
            break

def adminout5():
    print('*'*167)
    print(' '*75,'Gross Details',' '*75)
    print('\n'*2)
    print('1)Show Gross Details')
    time.sleep(0.5)
    print('\n'*1)
    print('2)Add an info')
    time.sleep(0.5)
    print('\n'*1)
    print('3)Remove an info')
    time.sleep(0.5)
    print('\n'*1)
    print('4)Exit')
    print('\n'*2)
    for i in range(0,100):
        gross=int(input('Enter your Choice for gross:'))
        if gross==1:
            showgross()
        elif gross==2:
            addgross()
        elif gross==3:
            remgross()
        elif gross==4:
            print('Thank you')
            print('\n'*2)
            print('*'*167)
            break

def adminout6():
    print('*'*167)
    print(' '*75,'Booking Details',' '*75)
    print('\n'*2)
    print('1)Show Booking Details')
    time.sleep(0.5)
    print('\n'*1)
    print('2)Add a Booking')
    time.sleep(0.5)
    print('\n'*1)
    print('3)Remove a Booking')
    time.sleep(0.5)
    print('\n'*1)
    print('4)Exit')
    print('\n'*2)
    for i in range(0,100):
        booking=int(input('Enter your Choice for booking:'))
        if booking==1:
```

```python
            showbooking()
        elif booking==2:
            addbooking()
        elif booking==3:
            rembooking()
        elif booking==4:
            print('Thank you')
            print('\n'*2)
            print('*'*167)
            break

def adminout7():
    print('*'*167)
    print(' '*75,'Feedback Details',' '*75)
    print('\n'*2)
    print('1)Show Feedback Details')
    time.sleep(0.5)
    print('\n'*1)
    print('2)Exit')
    print('\n'*2)
    for i in range(0,100):
        feed=int(input('Enter your Choice for feedback:'))
        if feed==1:
            showfeed()
        elif feed==2:
            print('Thank you')
            print('\n'*2)
            print('*'*167)
            break

def userout1():
    print('*'*167)
    print(' '*75,'Food Menu',' '*75)
    print('\n'*2)
    print('1)Show Food Menu')
    time.sleep(0.5)
    print('\n'*1)
    print('2)Add an Item')
    time.sleep(0.5)
    print('\n'*1)
    print('3)Exit')
    print('\n'*2)
    for i in range(0,100):
        food=int(input('Enter your Choice for foodmenu:'))
        if food==1:
            showfood()
        elif food==2:
            addfood()
        elif food==3:
            print('Thank you')
            print('\n'*2)
            print('*'*167)
```

```python
            break

def userout2():
    print('*'*167)
    print(' '*75,'Branch Details',' '*75)
    print('\n'*2)
    print('1)Show Branch Details')
    time.sleep(0.5)
    print('\n'*1)
    print('2)Add a Branch')
    time.sleep(0.5)
    print('\n'*1)
    print('3)Exit')
    print('\n'*2)
    for i in range(0,100):
        branch=int(input('Enter your Choice for branch:'))
        if branch==1:
            showbranch()
        elif branch==2:
            addbranch()
        elif branch==3:
            print('Thank you')
            print('\n'*2)
            print('*'*167)
            break

def userout3():
    print('*'*167)
    print(' '*75,'Booking Details',' '*75)
    print('\n'*2)
    print('1)Show Booking Details')
    time.sleep(0.5)
    print('\n'*1)
    print('2)Exit')
    print('\n'*2)
    for i in range(0,100):
        booking=int(input('Enter your Choice for booking:'))
        if booking==1:
            showbooking()
        elif booking==2:
            print('Thank you')
            print('\n'*2)
            print('*'*167)
            break

def otherout1():
    print('*'*167)
    print(' '*75,'Food Menu',' '*75)
    print('\n'*2)
    print('1)Show Food Menu')
    time.sleep(0.5)
```

```python
        print('\n'*1)
        print('2)Exit')
        print('\n'*2)
        for i in range(0,100):
            food=int(input('Enter your Choice for foodmenu:'))
            if food==1:
                showfood()
            elif food==2:
                print('Thank you')
                print('\n'*2)
                print('*'*167)
                break

def otherout2():
    print('*'*167)
    print(' '*75,'Booking Details',' '*75)
    print('\n'*2)
    print('1)Show Booking Details')
    time.sleep(0.5)
    print('\n'*1)
    print('2)Add a Booking')
    time.sleep(0.5)
    print('\n'*1)
    print('3)Exit')
    print('\n'*2)
    for i in range(0,100):
        booking=int(input('Enter your Choice for booking:'))
        if booking==1:
            showbooking()
        elif booking==2:
            addbooking()
            print("Booking Confirmed")
        elif booking==3:
            print('Thank you')
            print('\n'*2)
            print('*'*167)
            break

def otherout3():
    print('*'*167)
    print(' '*75,'Feedback Details',' '*75)
    print('\n'*2)
    print('1)Show Feedback Details')
    time.sleep(0.5)
    print('\n'*1)
    print('2)Add a Feedback')
    time.sleep(0.5)
    print('\n'*1)
    print('3)Remove a Feedback')
    time.sleep(0.5)
    print('\n'*1)
    print('4)Exit')
```

```python
    print('\n'*2)
    for i in range(0,100):
        feed=int(input('Enter your Choice for feedback:'))
        if feed==1:
            showfeed()
        elif feed==2:
            addfeed()
        elif feed==3:
            remfeed()
        elif feed==4:
            print('Thank you')
            print('\n'*2)
            print('*'*167)
            break

def out1():
    if a==1:
        b=(input('Enter the password:'))
        print('\n'*2)
        print('*'*167)
        if b=='passwd':
            for i in (0,100):
                print(' '*75,'Welcome Admin',' '*75)
                print()
                admin()
                print('\n'*2)
                c=int(input('Enter Your Choice for admin:'))
                if c==1:
                    adminout1()
                elif c==2:
                    adminout2()
                elif c==3:
                    adminout3()
                elif c==4:
                    adminout4()
                elif c==5:
                    adminout5()
                elif c==6:
                    adminout6()
                elif c==7:
                    adminout7()
                elif c==8:
                    print('Thank you')
                    print('\n'*2)
                    print('*'*167)
                    exit()

        else:
            print('Incorrect Password')
            print('Admin Rights Blocked')

def out2():
```

```python
    if a==2:
        b=(input('Enter your user id:'))
        print('\n'*2)
        print('*'*167)
        print(' '*75,'Welcome User',' '*75)
        print()
        user()
        print('\n'*2)
        for i in (0,100):
            c=int(input('Enter Your Choice for user:'))
            if c==1:
                userout1()
            elif c==2:
                userout2()
            elif c==3:
                userout3()
            elif c==4:
                print('Thank you')
                print('\n'*2)
                print('*'*167)
                exit()

def out3():
    if a==3:
        b=(input('Enter your name:'))
        print('\n'*2)
        print('*'*167)
        print(' '*75,'Welcome',b,' '*75)
        print()
        other()
        print('\n'*2)
        for i in (0,100):
            c=int(input('Enter Your Choice for other user:'))
            if c==1:
                otherout1()
            elif c==2:
                otherout2()
            elif c==3:
                otherout3()
            elif c==4:
                print('Thank you')
                print('\n'*2)
                print('*'*167)
                exit()

for i in range(0,10):
    out1()
    out2()
    out3()
```

Screenshots

Front End (Python):

#Output

```
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

                                              RESTAURANT LOGIN

^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^


1)Admin

2)User

3)Others


********************************************************************************************************************************************


Enter your selection :
```

#Admin

```
********************************************************************************************************************************************


Enter your selection :1
Enter the password:skr



********************************************************************************************************************************************
                                              Welcome Admin
1)Food menu

2)Stock

3)Branches

4)Staff info

5)Gross

6)Booking

7)Feedback

8)Exit


Enter Your Choice for admin:
```

#User

```
********************************************************************************************************************************************


Enter your selection :2
Enter your user id:Shailesh001



********************************************************************************************************************************************
                                              Welcome User
1)Food menu

2)Branches

3)Booking

4)Exit


Enter Your Choice for user:
```

#Other

Enter your selection :3
Enter your name:Shailesh

                                                            Welcome Shailesh

1)Food menu

2)Booking

3)Feedback

4)Exit

Enter Your Choice for other user:

#Foodmenu

Enter Your Choice for admin:1
                                                            Food Menu

1)Show Food Menu

2)Add an Item

3)Remove an Item

4)Exit

Enter your Choice for foodmenu:

Enter your Choice for foodmenu:1
(1, 'Paneer Tikka', '180gms', '220', 'Starters')
(2, 'Tandoori Aloo', '200gms', '179', 'Starters')
(3, 'Tomato Soup', '1 Cup', '89', 'Soups')
(4, 'Plain Cheese', '5 Pieces', '190', "Pizza's")
(5, 'Tandoori ', '7 Pieces', '250', "Pizza's")
(6, 'Plain Naan', '2', '43', 'Breads')
(7, 'Roomali Roti', '3', '69', 'Breads')
(8, 'Dosa(Butter)', '1', '125', 'Dosas')
(9, 'Paper Dosa', '1', '130', 'Dosas')
(10, 'Hot Chocolate Fudge', '1 Cup', '165', 'Sundaes')
(11, 'Fruit Salad Sundae', '1 Cup', '165', 'Sundaes')
(12, 'Cola/orange/lemon', '1 Cup', '55', 'Beverages')
(13, 'Diet Pepsi', '1 Cup', '45', 'Beverages')

Enter your Choice for foodmenu:2
Enter Itemcode:14
Enter Itemname:Scoop Icecreams
Enter Quantity:1 Scoop
Enter Price:120
Enter Type:Icecreams
Values Insertion Succesful

Enter your Choice for foodmenu:3
Enter the value of Foodcode:14
Values Deletion Succesful

#Stock

Enter Your Choice for admin:2
                                                            Stock Details

1)Show Stock Details

2)Add a Stock

3)Remove a Stock

4)Exit

Enter your Choice for stock:

Enter your Choice for stock:1
(1, 'Serving Plates', '100', '100000', 'Serving')
(2, 'Spoons', '50', '1000', 'Serving')
(3, 'Glasses', '80', '5000', 'Serving')
(4, 'Tissue Holder', '20', '500', 'Serving')
(5, 'Soup Bowls', '50', '2500', 'Serving')
(6, 'Eggs', '1000', '4000', 'Main Dish')
(7, 'Vegetables', '50 kg each', '10000', 'Main Dish')
(8, 'Fruits', '25 kg each', '5000', 'Juices')
(9, 'Milk', '59 litres', '2499', 'Drinks & Shakes')
(10, 'Meat', '50 kg', '3000', 'Main Dish')

```
**************************************************************************************************************************************
Enter your Choice for stock:2
Enter Itemcode:11
Enter Itemname:Cutlery
Enter Quantity:50
Enter Price:4325
Enter Type:Utensils
Values Insertion Succesful


**************************************************************************************************************************************
Enter your Choice for stock:3
Enter the value of stockcode:11
Values Deletion Succesful
```

#Branches

```
Enter Your Choice for admin:3
**************************************************************************************************************************************
                                                    Branch Details


1)Show Branch Details

2)Add a Branch

3)Remove a Branch

4)Exit


Enter your Choice for branch:
```

```
Enter your Choice for branch:1
(1, 'EL Paraiso TropicaL Restaurant', '538 Cranbrook Rd', 'Cockeysville', '(410) 628-1164', 'http://www.usathairestaurants.com/')
(2, 'Restaurant Restaurant', '713 E Garvey Ave', 'Monterey Park', '(626) 280-865', 'http://www.pavar')
(3, "Lloyd's Chicago Restaurant", '1 S Wacker Dr', 'Chicago', '(312) 986-5828', 'http://rieserestauran')
(4, 'El Maguey Mexican Restaurant', '1240 Capitol Trl', 'Newark', '(302) 533-7921', 'http://www.canarys')
(5, "Pavarotti's Restaurant", '8075 SR 200', 'Ocala', '(352) 291-942', 'http://atlantiscasino')
(6, 'Riese Restaurants National Restaurant', '701 7th Ave', 'New York', '(212) 768-094', 'http://www.brunelloa')
(7, 'Two Doors Down Restaurant', '31 w Carrillo St', 'Santa Barbara', '(805) 884-030', 'http://www.marriott')
(8, 'Atlantis Casino Resort Spa, Restaurant', '369 Route 108', 'Somersworth', '(603) 841-55', 'http://www.bavaria')
(9, 'Brunello Italian Restaurant Restaurant', '3800 S Virginia St', 'Reno', '(775) 824-4432', 'http://www.minesha')
(10, "Mccormick & Schmick's Seafood", '7000 Kennedy Blvd E', 'Guttenberg', '(201) 854-6466', 'http://www.patobr')


**************************************************************************************************************************************
Enter your Choice for branch:2
Enter Branchcode:11
Enter Branchname:Hi Restarant
Enter Address:332 Hai Street
Enter Locality:Santa Fe
Enter Telephone:23435455
Enter Website:www.hai.com
Values Insertion Succesful

**************************************************************************************************************************************
Enter your Choice for branch:3
Enter the value of Branchcode:11
Values Deletion Succesful
```

#Staff Info

```
**************************************************************************************************************************************
                                                    Staff Details


1)Show Staff Details

2)Add an info

3)Remove an info

4)Exit


Enter your Choice for staff:1
(1, 'EXECUTIVE CHEF', '40000', '12+', 'DEGREE FROM UNIVERSITY')
(2, 'SOUS CHEF', '35000', '10+', 'DEGREE FROM UNIVERSITY')
(3, 'CHEF DE PARTIE', '20000', '7+', 'DEGREE FROM UNIVERSITY')
(4, 'COMMI CHEF', '13000', '5+', 'ONE YEAR DIPLOMA')
(5, 'HELPERS', '6000', 'NO EXPERIENCE', '8TH PASS')
(6, 'DISHWASHERS', '6000', 'NO EXPERIENCE', '8TH PASS')
(7, 'CASHIER', '12000', '3+', 'ACCOUNTANCCY')
(8, 'CAPTAINS', '15000', '5+', '12TH PASS')
(9, 'HOUSE KEEPER', '8000', 'NO EXPERIENCE', '10TH PASS')
(10, 'DELIVERY BOYS', '7000', 'NO EXPERIENCE', 'VALID DRIVING LICENCE')


**************************************************************************************************************************************
Enter your Choice for staff:2
Enter Staffid:22
Enter Staff Designation:fxgfg
Enter Salary:fgnyj
Enter Experience(in years):hfgh
Enter Qualification:hfgh
Values Insertion Succesful


**************************************************************************************************************************************
Enter your Choice for staff:3
Enter the value of Staffcode:22
Values Deletion Succesful
```

#Gross

```
Enter Your Choice for admin:5
**********************************************************************************************************************************************
                                                   Gross Details


1)Show Gross Details

2)Add an info

3)Remove an info

4)Exit


Enter your Choice for gross:
Enter your Choice for gross:1
(1, 'Food', '40000', '68.49', 'SBC')
(2, 'Wine', '3000', '5.14', 'SBC')
(3, 'Liquor', '8000', '13.7', 'SBC')
(4, 'Beer', '4000', '6.85', 'SBC')
(5, 'Soft Drinks', '2500', '4.28', 'SBC')
(6, 'Food', '27750', '69.38', 'COGS')
(7, 'Liquor', '3500', '43.75', 'COGS')
(8, 'Beer', '1500', '37.5', 'COGS')
(9, 'Soft Drinks', '100', '4.0', 'COGS')
(10, 'Other Drinks', '900', '1.54', 'SBC')


**********************************************************************************************************************************************
Enter your Choice for gross:2
Enter Grosscode:232
Enter Gross Name:gdfxbg
Enter Income:fghfghfg
Enter Profit(in %):fjkgk
Enter Gross Type:dgdfh
Values Insertion Succesful


**********************************************************************************************************************************************
Enter your Choice for gross:3
Enter the value of Grosscode:232
Values Deletion Succesful
```

#Booking

```
Enter Your Choice for admin:6
**********************************************************************************************************************************************
                                                   Booking Details


1)Show Booking Details

2)Add a Booking

3)Remove a Booking

4)Exit
```

```
Enter your Choice for booking:1
Total number of bookings: 1
(23543, 'Coimbatore', 'Darshan', datetime.date(2020, 1, 1), '1000')
```

```
**********************************************************************************************************************************************
Enter your Choice for booking:3
Enter the value of Booking Id:23543
Values Deletion Succesful

Enter your Choice for booking:2
Enter Booking Id:12
Enter Preferred place:gxhb
Enter Customer Name:hchgn
Enter Booking Date:2020-10-10
Enter Total Pay:sxbxfc
Values Insertion Succesful
```

#Feedback

```
Enter Your Choice for other user:3
**********************************************************************************************************************************************
                                                   Feedback Details


1)Show Feedback Details

2)Add a Feedback

3)Remove a Feedback

4)Exit
```

```
Enter your Choice for feedback:1
Total number of feedbacks: 1
(21232, 'dqarshan', 'sky', datetime.date(2090, 11, 23), 'dine in', 'very bad', '1')
```

```
Enter your Choice for feedback:2
Enter Feedback Id:13
Enter your Name:Shailesh
Enter your Location:hfs
Enter Date of visit:2019-11-20
Enter Dine in/ Take Out:fsrg
Enter Food quality:jkjyg
Enter Overall Rating:dghht
Values Insertion Succesful


*****************************************************************************************************************************************
Feedback Insertion Succesful

*****************************************************************************************************************************************
Enter your Choice for feedback:3
Enter the value of Name:13
Feedback Deletion Succesful
```

#Exit

```
*****************************************************************************************************************************************
                                        Welcome Admin
1)Food menu

2)Stock

3)Branches

4)Staff info

5)Gross

6)Booking

7)Feedback

8)Exit


Enter Your Choice for admin:8
Thank you
```
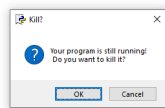

#Password verification after two entries

```
*****************************************************************************************************************************************
Enter the password:
```

Back End (SQL):

Food menu:

```
mysql> select * from foodmenu;
+-----------+---------------------+----------+-------+-----------+
| food_code | food_name           | quantity | price | food_type |
+-----------+---------------------+----------+-------+-----------+
|         1 | Paneer Tikka        | 180gms   | 220   | Starters  |
|         2 | Tandoori Aloo       | 200gms   | 179   | Starters  |
|         3 | Tomato Soup         | 1 Cup    | 89    | Soups     |
|         4 | Plain Cheese        | 5 Pieces | 190   | Pizza's   |
|         5 | Tandoori            | 7 Pieces | 250   | Pizza's   |
|         6 | Plain Naan          | 2        | 43    | Breads    |
|         7 | Roomali Roti        | 3        | 69    | Breads    |
|         8 | Dosa(Butter)        | 1        | 125   | Dosas     |
|         9 | Paper Dosa          | 1        | 130   | Dosas     |
|        10 | Hot Chocolate Fudge | 1 Cup    | 165   | Sundaes   |
|        11 | Fruit Salad Sundae  | 1 Cup    | 165   | Sundaes   |
|        12 | Cola/orange/lemon   | 1 Cup    | 55    | Beverages |
|        13 | Diet Pepsi          | 1 Cup    | 45    | Beverages |
+-----------+---------------------+----------+-------+-----------+
13 rows in set (0.01 sec)
```

Staff Info:

```
mysql> select * from stock;
+------------+----------------+------------+--------+-----------------+
| stock_code | stock_name     | quantity   | price  | stock_type      |
+------------+----------------+------------+--------+-----------------+
|          1 | Serving Plates | 100        | 100000 | Serving         |
|          2 | Spoons         | 50         | 1000   | Serving         |
|          3 | Glasses        | 80         | 5000   | Serving         |
|          4 | Tissue Holder  | 20         | 500    | Serving         |
|          5 | Soup Bowls     | 50         | 2500   | Serving         |
|          6 | Eggs           | 1000       | 4000   | Main Dish       |
|          7 | Vegetables     | 50 kg each | 10000  | Main Dish       |
|          8 | Fruits         | 25 kg each | 5000   | Juices          |
|          9 | Milk           | 59 litres  | 2499   | Drinks & Shakes |
|         10 | Meat           | 50 kg      | 3000   | Main Dish       |
+------------+----------------+------------+--------+-----------------+
10 rows in set (0.01 sec)
```

Branches:

```
mysql> select * from branches;
+-------------+-------------------------------------------+-------------------+---------------+----------------+----------------------------------+
| branch_code | branch_name                               | address           | locality      | telephone      | website                          |
+-------------+-------------------------------------------+-------------------+---------------+----------------+----------------------------------+
|           1 | EL Paraiso Tropical Restaurant            | 538 Cranbrook Rd  | Cockeysville  | (410) 628-1164 | http://www.usathairestaurants.com/ |
|           2 | Restaurant Restaurant                     | 713 E Garvey Ave  | Monterey Park | (626) 280-865  | http://www.pavar                 |
|           3 | Lloyd's Chicago Restaurant                | 1 S Wacker Dr     | Chicago       | (312) 986-5828 | http://rieserestauran            |
|           4 | El Maguey Mexican Restaurant              | 1240 Capitol Trl  | Newark        | (302) 533-7921 | http://www.canarys               |
|           5 | Pavarotti's Restaurant                    | 8075 SR 200       | Ocala         | (352) 291-942  | http://atlantiscasino            |
|           6 | Riese Restaurants National Restaurant     | 701 7th Ave       | New York      | (212) 768-094  | http://www.brunelloa             |
|           7 | Two Doors Down Restaurant                 | 31 w Carrillo St  | Santa Barbara | (805) 884-030  | http://www.marriott              |
|           8 | Atlantis Casino Resort Spa, Restaurant    | 369 Route 108     | Somersworth   | (603) 841-55   | http://www.bavaria               |
|           9 | Brunello Italian Restaurant Restaurant    | 3800 S Virginia St| Reno          | (775) 824-4432 | http://www.minesha               |
|          10 | Mccormick & Schmick's Seafood             | 7000 Kennedy Blvd E| Guttenberg   | (201) 854-6466 | http://www.patobr                |
+-------------+-------------------------------------------+-------------------+---------------+----------------+----------------------------------+
10 rows in set (0.00 sec)
```

Staff info:

```
mysql> select * from staff_info;
+---------+------------------+--------------+------------------------+------------------------+
| info_id | staff_designation| staff_salary | staff_experience(in years) | staff_qualification  |
+---------+------------------+--------------+------------------------+------------------------+
|       1 | EXECUTIVE CHEF   | 40000        | 12+                    | DEGREE FROM UNIVERSITY |
|       2 | SOUS CHEF        | 35000        | 10+                    | DEGREE FROM UNIVERSITY |
|       3 | CHEF DE PARTIE   | 20000        | 7+                     | DEGREE FROM UNIVERSITY |
|       4 | COMMI CHEF       | 13000        | 5+                     | ONE YEAR DIPLOMA      |
|       5 | HELPERS          | 6000         | NO EXPERIENCE          | 8TH PASS              |
|       6 | DISHWASHERS      | 6000         | NO EXPERIENCE          | 8TH PASS              |
|       7 | CASHIER          | 12000        | 3+                     | ACCOUNTANCCY          |
|       8 | CAPTAINS         | 15000        | 5+                     | 12TH PASS             |
|       9 | HOUSE KEEPER     | 8000         | NO EXPERIENCE          | 10TH PASS             |
|      10 | DELIVERY BOYS    | 7000         | NO EXPERIENCE          | VALID DRIVING LICENCE |
+---------+------------------+--------------+------------------------+------------------------+
10 rows in set (0.00 sec)
```

Gross:

```
mysql> select * from gross;
+------------+--------------+--------------+------------------+------------+
| gross_code | gross_name   | gross_income | gross_profit(in %) | gross_type |
+------------+--------------+--------------+------------------+------------+
|          1 | Food         | 40000        | 68.49            | SBC        |
|          2 | Wine         | 3000         | 5.14             | SBC        |
|          3 | Liquor       | 8000         | 13.7             | SBC        |
|          4 | Beer         | 4000         | 6.85             | SBC        |
|          5 | Soft Drinks  | 2500         | 4.28             | SBC        |
|          6 | Food         | 27750        | 69.38            | COGS       |
|          7 | Liquor       | 3500         | 43.75            | COGS       |
|          8 | Beer         | 1500         | 37.5             | COGS       |
|          9 | Soft Drinks  | 100          | 4.0              | COGS       |
|         10 | Other Drinks | 900          | 1.54             | SBC        |
+------------+--------------+--------------+------------------+------------+
10 rows in set (0.00 sec)
```

Booking:

```
mysql> select * from booking;
Empty set (0.00 sec)
```

Feedback:

```
mysql> select * from feedback;
+-------------+----------+----------+-------------+----------------+--------------+--------------------+
| Feedback No | Name     | Location | Day Visited | Dine in/Take out | Food quality | Overall experience |
+-------------+----------+----------+-------------+----------------+--------------+--------------------+
|          13 | Shailesh | hfs      | 2019-11-20  | fsrg           | jkjyg        | dghht              |
|       21232 | dqarshan | sky      | 2090-11-23  | dine in        | very bad     | 1                  |
+-------------+----------+----------+-------------+----------------+--------------+--------------------+
2 rows in set (0.00 sec)
```

Limitations

Even though the project is designed with careful analysis, few limitations are there due to time constraints.

- Admins can set password for their login once, but password changing facilities are not included

- There is no facility of storing the login details of different users and others

- Anybody can login as others into the system. Admin don't have control of creating the customers login

- Table insertion and deletion commands are included but update and alter functions are not used.

- Related tables are not created.

Conclusion

Thus this project is designed with the required sub menus and working of each and every menu is tested and corrections are made in the coding to make the required error corrections. The project can be used by any company which is doing restaurant business, to manage their food menus, staff details, order details, stock details, revenue details, branches details. Since the project is designed with SQL and Python, it is compatible with any operating systems like windows, Linux, Macintosh etc.   This project can further be improved by introducing the option to select the databases by the admin, giving rights to the admin to create customers login. Related tables can also be created to further enhance the functioning of the software. Leftout facilities will be included in the updated version of the software. The new version will also include the Graphical User Interface (GUI).