

<<Hotel Management system>>

21CSS101J – PROGRAMMING FOR PROBLEM-SOLVING

Mini Project Report

Submitted by

Student Name:- Rohit Kumar

[Reg. No.: RA2311003011411]

B.Tech. CSE - <<CORE>>

Student Name:- Ayush Baoker

[Reg. No.: RA2311003011419]

B.Tech. CSE - <<CORE>>



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**SCHOOL OF COMPUTING
COLLEGE OF ENGINEERING AND TECHNOLOGY
SRM INSTITUTE OF SCIENCE AND TECHNOLOGY**

(Under Section 3 of UGC Act, 1956)

S.R.M. NAGAR, KATTANKULATHUR – 603 203

CHENGALPATTU DISTRICT

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BONAFIDE CERTIFICATE

Certified that Mini project report titled _____ is the
bonafide work of Reg.No _____ Name _____ who
carried out the minor project under my supervision. Certified further, that to the best of my knowledge, the
work reported herein does not form any other project report or dissertation on the basis of which a degree
or award was conferred on an earlier occasion on this or any other candidate.

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1.Problem Statement

The title of my mini project is hotel management system .

The source code is written in python programming language. The idea behind this is to manage a hotel . My project uses many modules, function and interesting shades of python language and mysql.

2.Methodology / Procedure/ Algorithm

1. User Authentication:

Users are prompted to log in by providing a valid username and password.
The system validates the login credentials against pre-defined user accounts.
If the login is successful, users gain access to the main menu; otherwise, an error message is displayed.

2. Booking a room:

Users select the "Book a room" option.
They enter the room number and personal details.
The system verifies room availability and reserves a room for the guest.
A confirmation message is displayed upon successful booking.

3. Canceling a room:

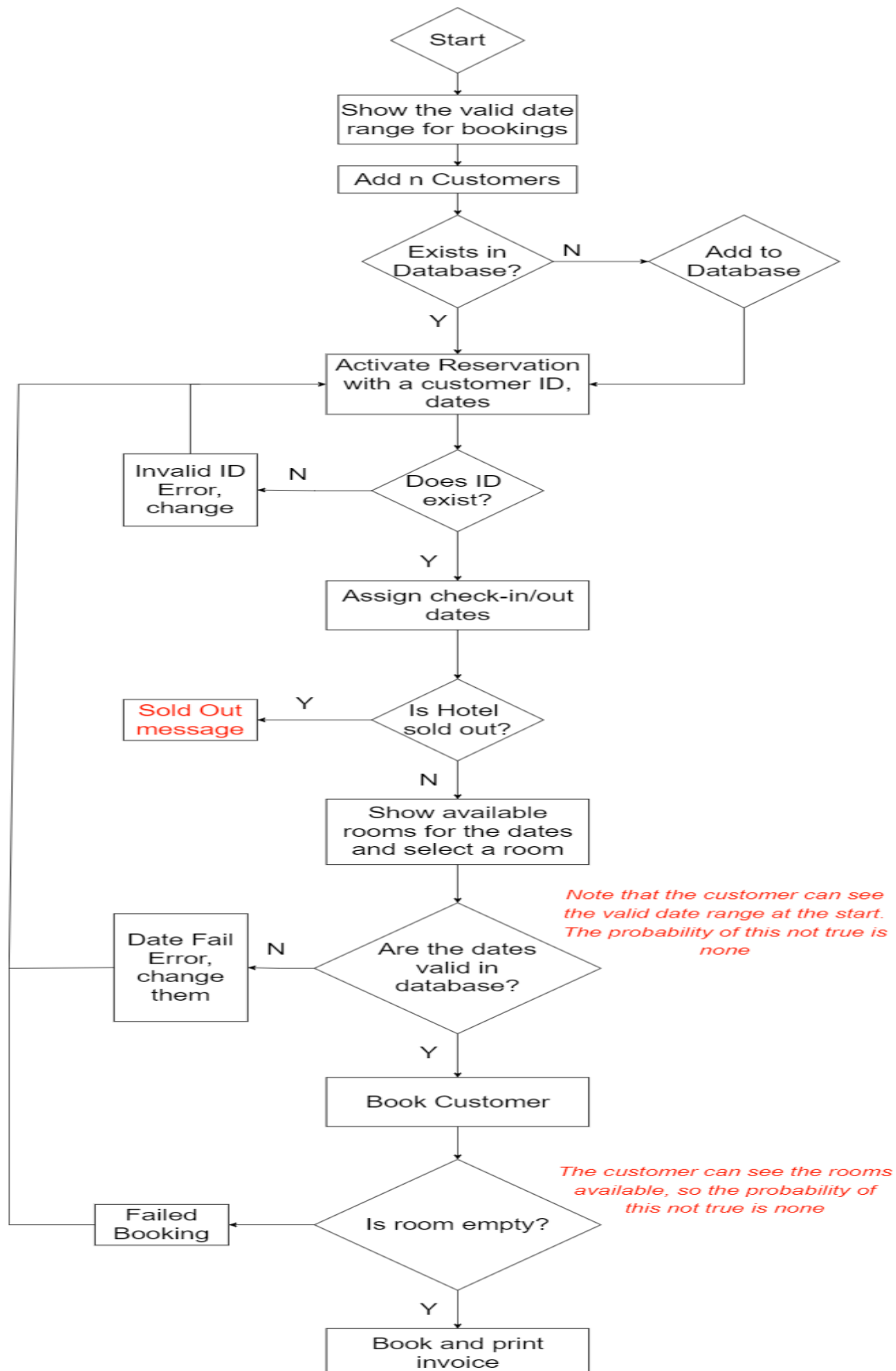
Users select the "Cancel a room" option.
They provide the guest name to identify the reservation.
The system cancels the reservation, increasing available room for the corresponding hotel.
A confirmation message is displayed upon successful cancellation.

4. Checking room Status:

Users choose the "Check room Status" option.
They enter the room number to retrieve information such as guest name, phone number, accommodation type.
The system displays the room status.

3. Flow chart

Make Reservation



4. Coding (Python)

#Project For Hotel Management System Using Python,File Handling and SQL Database

#Importing Required Modules

import csv

import random

import os

import mysql.connector as c

con=c.connect(host='localhost',user='root',passwd='mysql',database='hotel') #To connect to MySQL via Python

cursor=con.cursor()

cursor.execute("use hotel") #Selecting Database where table is created.

#Defining Global Variables

hotel_database="hotel.csv"

name=phno=add=checkin=checkout=room=price=rc=p=roomno=customer_Id=day=[]

hotel=[]

services=[]

fields=['Name','Phone No','Email','Check-In','Check-Out','Room Type','Price','Room Number','Customer Id','Days']

i=0

days=0

room_type=""

#Home Function

def Home():

print("-----")

print("GREETINGS!\n")

print("WELCOME TO HOTEL PARADISE")

print("-----")

print("\t\t\t 1 Booking A Room\n")

print("\t\t\t 2 Rooms Info\n")

print("\t\t\t 3 Room service(Food Menu)\n")

print("\t\t\t 4 Pay Bill\n")

print("\t\t\t 5 Search A Record\n")

print("\t\t\t 6 Delete Record\n")

```

print("\t\t\t 7 Contact Us\n")
print("\t\t\t 0 Exit\n")
print("-----")
choice=int(input("What Would You Like To Do? Enter Your Choice :"))
if choice == 1:
    print(" ")
    booking()
elif choice == 2:
    print(" ")
    info_rooms()
elif choice == 3:
    print(" ")
    restaurant()
elif choice == 4:
    print(" ")
    payment()
elif choice == 5:
    print(" ")
    search_record()
elif choice == 6:
    print(" ")
    delete_record()
elif choice==7:
    print(" ")
    contact()
elif choice==0:
    print(" ")
    exit()
else:
    print("Invalid Option")

```

#Defining Different Functions For The Program

#BOOKING FUNCTION

```

def booking():
    days=0
    openfile=open(hotel_database,'a')
    fw=open('services.csv','a')
    global i
    global hotel

```



```

print("-----")
print("BOOKING ROOMS")
print("-----")
print(" ")
global fields
Booking_data=[]
csvfile=csv.writer(openfile)
csvfile1=csv.writer(fw)
while True:
    n=input("Name :")
    while n=="":
        print("Name can't be empty")
        n=input("Name :")
    p1=input("Phone :")
    while len(p1)!=10:
        print("Invalid Phone Number")
        p1=input("Phone :")
    a=input("email :")
    while "@" not in a:
        print("Invalid Email")
        a=input("email :")
    if n!=" " and p1!=" " and a!=" ":
        name.append(n)
        phno.append(p1)
        add.append(a)
        break
    checkindate=input("Check-In Date(YYYY-MM-DD) :")
    #copy of data for file management
    indate=checkindate
    checkin.append(checkindate)
    checkindate=checkindate.split('-')
    ci=checkindate
    ci[0]=int(ci[0])
    ci[1]=int(ci[1])
    ci[2]=int(ci[2])
    checkoutdate=input("Check-Out Date(YYYY-MM-DD) :")

    #copy of date for file management

    outdate=checkoutdate
    checkout.append(checkoutdate)

```

```

checkoutdate=checkoutdate.split('-')
co=checkoutdate
co[0]=int(co[0])
co[1]=int(co[1])
co[2]=int(co[2])
if co[1]<ci[1] and co[2]<ci[2]:
    print("\n\tErr..!!\n\tCheck-Out date must fall after Check-In\n")
    name.pop(i)
    add.pop(i)
    checkin.pop(i)
    checkout.pop(i)
    booking()
elif co[1]==ci[1] and co[0]>=ci[0] and co[2]<=ci[2]:
    print("\n\tErr..!!\n\tCheck-Out date must fall after Check-In\n")
    name.pop(i)
    add.pop(i)
    checkin.pop(i)
    checkout.pop(i)
    booking()
else:
    month = {
        1:31,
        2:28,
        3:31,
        4:30,
        5:31,
        6:30,
        7:31,
        8:31,
        9:30,
        10:31,
        11:30,
        12:31
    }
    d=0

```

#Checking Right Credentials

```

if (0<ci[1]<13 and 0<co[1]<13 and ci[2]<=month[ci[1]] and co[2]<=month[co[1]]):
    #if month are same
    if(ci[1]==co[1]):

```

```

        days=co[2]-ci[2]
    else:
        for i in range(ci[1],co[1]):
            #print(month[i])
            days+=(month[ci[1]]-ci[2])+co[2]
        print('Booking for ',days+1,'days')
    else:
        print('Wrong Value')
print("----SELECT ROOM TYPE----")
print(" 1. Standard")
print(" 2. Standard Plus")
print(" 3. Suites")
print(" 4. Cottages")
print(("\\t\\tPress 0 for Room Prices"))
choice=int(input(">"))

# if-conditions to display allotted room type and it's price
if choice==0:
    print(" 1. Standard- Rs. 4000")
    print(" 2. Standard Plus - Rs. 4500")
    print(" 3. Suites - Rs. 5000")
    print(" 4. Cottages- Rs. 5500")
    choice=int(input(">"))
elif choice==1:
    room.append('Standard')
    print("Room Type- Standard")
    room_type="Standard"
    price.append(4000)
    p=4000
    print("Price- 4000")
    bill=(days+1)*p
elif choice==2:
    room.append('Standard Plus')
    print("Room Type-Standard Plus ")
    price.append(4500)
    print("Price- 4500")
    room_type="Standard Plus"
    p=4500
    bill=(days+1)*p
elif choice==3:
    room.append('Suites')

```

```

    print('Room Type- Suites')
    price.append(5000)
    print('Price- 5000')
    room_type='Suites'
    p=5000
    bill=(days+1)*p
elif choice==4:
    room.append('Cottages')
    print('Room Type- Cottages')
    price.append(5500)
    print('Price- 5500')
    room_type="Cottages"
    p=5500
    bill=(days+1)*p
else:
    print(' Wrong choice..!!')
# randomly generating room no. and customer id for customer

room_no = random.randrange(40)+300
customer_id = random.randrange(60)+10
print("")
roomno.append(room_no)
customer_Id.append(customer_id)
i=i+1
hotel.extend([n,p1,a,indate,outdate,room_type,p,room_no,customer_id,days+1])
csvfile.writerow(hotel)
print("\t\t\t---ROOM BOOKED SUCCESSFULLY---\n")
print("Room No. - ",room_no)
print("Customer Id - ",customer_id)
print("Successfully Saved into Our Database")
data=str(hotel)
sql="insert into
booking(Name,Phone_Number,Email,Check_In,Check_Out,Room_Type,Price,Room_Number,Cus
tomer_id,Days)values('{}',{},{},{},{},{},{},{},{})".format(n,str(p1),a,str(indate),str(outdate),r
oom_type,p,room_no,customer_id,days+1)
cursor.execute(sql)
service_charge=0
services.extend([n,customer_id,service_charge,bill])
csvfile1.writerow(services)

sql1="insert into

```

```

service(Name,Customer_id,Room_Bill)values('{}',{},{})'.format(n,customer_id,bill)
cursor.execute(sql1)
con.commit()
hotel=[]
openfile.close()
n=int(input("0-BACK\n -->"))
if n==0:
    Home()
else:
    exit()

```

#ROOM INFO FUNCTION

```
def standard():
```

```

    print("\t\tSTANDARD")
    print("-----")
    print("Find sanctuary in our serene Standard room. A cosy double bedroom complete with an
    ensuite with rainfall shower and private balcony.\n")
    print("This cosy room has everything you need for R&R, including crisp 300 thread count cotton
    sheets, a hypoallergenic mattress, ensuite bathroom, a private balcony and, of course, superfast
    WiFi connection. Decorated with classic interior that complements the Algarve's natural beauty,
    this room has everything you need for a relaxing stay.")
    print("\nThis room includes\n")
    print("1.Air Conditioning")
    print("2.High Speed WiFi")
    print("3.Multi-Line Telephone")
    print("4.Flat Screen TV with International Channels")
    print("5.Daily Maid Service")
    print("")

```

```
def standard_plus():
```

```

    print("\t\tSTANDARD PLUS")
    print("-----")
    print("Enjoy all the comfort and style of the Standard but in our larger room. With a size of 26m²,
    the Standard Plus is ideal for longer stays.")
    print("\nWith a private entrance and ground floor access, our Standard Plus rooms have all the
    comfort and style of the Standard but with added space. With a size of 26m², and a private balcony
    perfect for sipping a cocktail at sunset, the Standard Plus is ideal for longer stays at The Paradise
    Hotel. Complete with a divinely comfortable twin or double bed, crisp 300 thread count cotton
    sheets and modern en suite bathroom fitted with all amenities, oversized 600 tog bath towels,
    hairdryer, vanity sink and magnifying make-up mirror.")
    print("\nThis room includes\n")
    print("1.Air Conditioning")

```

```
print("2.High Speed WiFi")
print("3.Multi-Line Telephone")
print("4.Flat Screen TV with International Channels")
print("5.Daily Maid Service")
print("")
```

```
def suites():
```

```
    print("\t\t\tSUITES")
    print("-----")
    print("Our stylish suites are complete with a double bedroom, living space with cosy couches,
    ensuite and private balcony. Dreamy.")
    print("\nBright and airy, our stylish suites feature separate living areas with cosy couches to
    lounge on, as well as a divine double bedroom for the ultimate R&R. In the bathroom, a glorious
    shower awaits, with a vanity sink and mirror equipped with hairdryer, magnifying make-up
    mirror, and signature Paradise slides.")
    print("\nThis room includes\n")
    print("1.Air Conditioning")
    print("2.High Speed WiFi")
    print("3.Multi-Line Telephone")
    print("4.Flat Screen TV with International Channels")
    print("5.Daily Maid Service")
    print("")
```

```
def cottages():
```

```
    print("\t\t\tCOTTAGES")
    print("-----")
    print("Our charming two-bedroom cottages each have their own living room, kitchenette,
    bathroom and patio. Great for couples and families looking for a blissful getaway.")
    print("\nThe perfect retreat. Situated among the pine trees, our two-bedroom cottages each have
    their own living room, kitchenette, bathroom and patio. Great for couples and families, with
    modern and luxurious style and all The Paradise Hotel action on the doorstep, it's ideal for a
    dreamy getaway.")
    print("\nThis room includes\n")
    print("1.Air Conditioning")
    print("2.High Speed WiFi")
    print("3.Multi-Line Telephone")
    print("4.Flat Screen TV with International Channels")
    print("5.Daily Maid Service")
    print("")
```

```
def info_rooms():
```

```
    print()
```

```

print("          ----- HOTEL ROOMS INFO -----")
print("")
standard()
standard_plus()
suites()
cottages()
n=int(input("0-BACK\n->"))
if n==0:
    Home()
else:
    exit()

```

RESTAURANT FUNCTION

```

def restaurant():
    id=int(input("Customer Id: "))
    k=0
    counter=0
    fw=open('services.csv','a')
    csvfile=csv.writer(fw)
    global i
    with open('hotel.csv','r') as csvfiler:
        csvr=csv.reader(csvfiler)
        for row in csvr:
            #print(len(row))
            for i in range(0,len(row)):
                #print(i)
                if row[8]==str(id):
                    k=k+1
                    x=row[8]
                    name=row[0]
                    customerid=row[8]
                    print(' ')
                    print('Welcome',row[0],".What would you like to have today?")
                    print("-----")
                    print("-----")
                    print("\t\tHotel Paradise Menu Card")
                    print("-----")
                    print("-----")
                    print("\n BREADS                                THALI MEAL DEALS")
                    print("-----")

```

```

print(" 1 Toast X2..... 25.00 36.Chana and Puri.....50.00 ")
print(" 2 French Toasts..... 30.00    37.Halwa and Puri.....40.00")
print("----- 38.Chana Halwa Puri.....65.00")
print(" ROTIS AND PARATHAS -----")
print(" ----- CHINESE")
print(" 3.Plain Roti X1..... 10.00 -----")
print(" 4.Butter Roti X1..... 20.00 39.Veg Chowmein.....80.00")
print(" 5.Butter Nan..... 25.00 40.Butter Chowmein.....100.00")
print(" 6.Aaloo Paratha X1.....25.00 41.Noodles.....40.00")
print(" 7.Aaloo and Onion Paratha X1...30.00 42.Ramen.....60.00")
print(" 8.Paneer Paratha X1.....45.00 43.Veg Spring Rolls.....100.00")
print(" ----- 44.Mixed Spring Rolls.....150.00")
print(" SABJI -----")
print(" ----- DALS")
print(" 9.Aaloo Gobi.....90.00 -----")
print(" 10.Bhindi Fry..... 90.00 45.Dal Tadka.....80.00")
print(" 11.Mix Veg.....90.00 46.Dal Fry.....80.00")
print(" 12.Mushroom Masala.....120.00 47.Dal Makhni.....100.00")
print(" 13.Aaloo Matar.....100.00 48.Rajma.....100.00")
print(" 14.Matar Paneer.....120.00 49.Chhole.....100.00")
print(" 15.Kadai Paneer.....120.00 -----")
print(" 16.Shahi Paneer.....120.00 RICE")
print(" -----")
print(" SOUPS 50.Plain Rice.....90.00")
print("----- 51.Jeera Rice.....90.00")
print(" 17.Tomato Soup.....50.00 52.Fried Rice.....120.00")
print(" 18.Manchow Soup.....55.00 53.Paneer Fried Rice.....165.00")
print(" 19.Hot Sour Soup.....55.00 54.Veg Pulao.....130.00")
print(" 20.Palak Soup.....55.00 55.Matar Pulao.....140.00")
print("-----")
print(" SOUTH INDIAN DISHES SANDWICHES")
print("-----")
print(" 21.Plain Dosa.....70.00 56.Veg Sandwich.....45.00")
print(" 22.Masala Dosa.....80.00 57.Cheese Sandwich.....65.00")
print(" 23.Paneer Masala Dosa.....100.00 58.Grilled Sandwich.....120.00")
print(" 24.Dahi Vada.....55.00 59.Club Sandwich.....120.00")
print(" 25.Idli Sambhar.....30.00 60.Veg Cheese Grilled Sandwich..140.00")
print(" 26.Idli Fried.....40.00 61.Veg Toasted Sandwich.....70.00")
print("-----")
print(" PIZZA ICE CREAMS")
print("-----")

```



```

print(" 27.Cheese Pizza.....140.00    62.Vanilla Ice cream.....60.00")
print(" 28.Mushroom Pizza.....160.00      63.Strawberry Ice cream.....60.00")
print(" 29.Margherita.....130.00    64.Chocolate Ice cream.....60.00")
print(" 30.Paneer Pizza.....160.00    65.Pineapple Ice cream.....60.00")
print(" 31.Tomato Pasta Pizza.....150.00    66.Butterscotch Ice cream.....60.00")
print("-----")
print(" BEVERAGES                                DESSERTS")
print("-----")
print(" 32.Pepsi(500 ml).....60.00    67.Choco Lava Cake.....100.00")
print(" 33.Slice(350 ml).....50.00    68.Butterscotch Mousse Cake.....100.00")
print(" 34.7Up(500 ml).....60.00    69.Red Velvet Lava Cake.....130.00")
print(" 35.Mirinda(500 ml).....60.00    70.Blueberry Cheese Lava Cake...130.00")
print("-----")
print("Press 0 -to end ")
choice=1

```

```

while(choice!=0):

```

```

    choice=int(input(" -> "))

```

```

    # if-elif-conditions to assign item

```

```

    # prices listed in menu card

```

```

    if choice==1 or choice==5 or choice==6:

```

```

        cost=25

```

```

        counter=counter+cost

```

```

    elif choice==2 or choice==7 or choice==25:

```

```

        cost=30

```

```

        counter=counter+cost

```

```

    elif choice==3:

```

```

        cost=10

```

```

        counter=counter+cost

```

```

    elif choice==4:

```

```

        cost=20

```

```

        counter=counter+cost

```

```

    elif choice==8 or choice==56:

```

```

        cost=45

```

```

        counter=counter+cost

```

```

    elif (choice<=11 and choice>=9) or choice==50 or choice==51:

```

```

        cost=90

```

```

        counter=counter+cost

```

```

    elif (choice<=16 and choice>=14) or choice==12 or choice==52 or choice==58 or

```

```

choice==59:
    cost=120
    counter=counter+cost
elif (choice<=20 and choice>=18) or choice==24:
    cost=55
    counter=counter+cost
elif choice==21 or choice==61:
    cost=70
    counter=counter+cost
elif choice==17 or choice==33 or choice==36:
    cost=50
    counter=counter+cost
elif choice==22 or choice==39 or choice==45 or choice==46:
    cost=80
    counter=counter+cost
elif choice==26 or choice==37 or choice==41:
    cost=40
    counter=counter+cost
elif choice==27 or choice==55 or choice==60:
    cost=140
    counter=counter+cost
elif choice==28 or choice==30:
    cost=160
    counter=counter+cost
elif choice==31 or choice==44:
    cost=150
    counter=counter+cost
elif choice==32 or choice==34 or choice==35 or choice==42 or (choice>=62 and
choice<=66):
    cost=60
    counter=counter+cost
elif choice==38 or choice==57:
    cost=65
    counter=counter+cost
elif choice==53:
    cost=165
    counter=counter+cost
elif choice==13 or choice==23 or choice==40 or choice==43 or (choice>=47 and
choice<=49) or choice==68 or choice==67:
    cost=100
    counter=counter+cost

```

```

elif choice==29 or choice==54 or choice==70 or choice==69:
    cost=130
    counter=counter+cost
elif choice==0:
    pass
else:
    print("Wrong Choice..!!!")

if counter!=0:
    print('Total Bill: ',counter)
    service=[]
    bill=str(counter)
    service.extend([name,customerid,bill])
    csvfile.writerow(service)
    service=[]
    print('Order Placed.Coming Right Up')
    sql="update service set Service_Charge ={} where
Customer_id={};".format(counter,x)
    cursor.execute(sql)
    con.commit()
    z='NO'
    sql1="update booking set Payment='{}' where Customer_id={}".format(z,x)
    cursor.execute(sql1)
    con.commit()
    break

else:
    print("Order Not Placed")
    break

else:
    pass

if k==0:
    print("User with the given Customer id is not registered.")

n=int(input("0-BACK\n ->"))
if n==0:
    Home()
else:
    exit()

```

#PAYMENT FUNCTION

```

def payment():
    id=int(input('Enter customer id-->'))
    k=0
    with open('hotel.csv','r') as csvfiler:
        csvr=csv.reader(csvfiler)
        for row in csvr:
            for i in range(0,len(row)):
                if row[8]==str(id):
                    k=k+1
                    print("Yo")
                    print("Welcome",row[0],". Here is your bill:")
                    sql='select * from service where Customer_id={}'.format(id)
                    cursor.execute(sql)
                    rows=cursor.fetchall()
                    for x in rows:
                        hotel_service=x[2]
                        room_chrg=x[3]
                        print('Hotel Service',hotel_service)
                        print('Room Charge',room_chrg)
                    sql1='select Payment from booking where Customer_id={}'.format(id)
                    cursor.execute(sql1)
                    row1=cursor.fetchall()
                    print("Your Total bill is:",hotel_service+room_chrg)
                    if row1==[('NO',)]:
                        choice=input("Do you wish to make your payment now? y-yes,or any other character
to exit-->")
                        if choice=='y' or choice=='Y':
                            print("Enter mode of payment")
                            print(" 1- Credit/Debit Card")
                            print(" 2- Paytm/PhonePe")
                            print(" 3- Using UPI")
                            print(" 4- Cash")
                            x=int(input("-> "))
                            if 1<=x<=4:
                                print("\n\n -----")
                                print("                Hotel Paradise")
                                print(" -----")
                                print("                Bill")
                                print(" -----")
                                print(" Name: ",row[0],"\t\n")

```

```

        print("\n\t\n Room Charges:",room_chrg)
        print(" Restaurant Charges: \t",hotel_service)
        print(" -----")
        print("\n Total Amount: ",(hotel_service+room_chrg))
        print(" -----")
        print("                Thank You")
        print("                Visit Again :)")
        print(" -----\n")
        z="YES"

        sql2='update booking set payment=\'\' where Customer_id={}'.format(z,id)
        cursor.execute(sql2)
        con.commit()
    else:
        print("Wrong Choice,please retry")
else:
    print("\n\nYour Payment is already done")
n = int(input("0-BACK\n ->"))
if n==0:
    Home()
    break
else:
    exit()

```

RECORD FUNCTION

```

def search_record():
    id=int(input('Enter customer id-->'))
    k=0
    with open('hotel.csv','r') as csvfiler:
        csvr=csv.reader(csvfiler)
        for row in csvr:
            for i in range(0,len(row)):
                if row[8]==str(id):
                    k=k+1
                    print("-----")
                    print('Name:',row[0])
                    print('\nPhone Number:',row[1])
                    print("\nEmail:",row[2])
                    print("\nCheck-In Date:",row[3])

```

```

        print("\nCheck-Out Date",row[4])
        print("\nRoom Type:",row[5])
        print("\nPrice:",row[6])
        print("\nRoom Number:",row[7])
        print('\nCustomer Id:',row[8])
        print('\nBooked for:',row[9],'days')
        print("-----")
        break
    else:
        pass
if k==0:
    print("Record with the given customer id is not registered.Please retry!!")
csvfiler.close()
n = int(input("0-BACK\n ->"))
if n == 0:
    Home()
else:
    exit()

```

#DELETE RECORD FUNCTION

```

def delete_record():
    csvfilew1=open("new.csv","w")
    csvw=csv.writer(csvfilew1)
    cid=int(input("Enter Your Customer Id :"))
    k=0
    l=[]
    with open(hotel_database,'r')as csvfiler:
        csvr=csv.reader(csvfiler)
        #print(csvr)
        for row in csvr:
            for i in range(0,len(row)):
                if str(cid)==row[8]:
                    k=k+1
                    print("Record Found,Deleting It.....")
                    print(".....")
                    print(".....")
                    print(".....")
                    print("Record Deleted!!!")
                    break

```

```

        elif str(cid)!=row[8]:
            csvw.writerow(row)
            break
    if k==0:
        print("Record with the given customer id is not registered.Please retry!!")

csvfilew1.close()
csvfiler.close()
os.remove("hotel.csv")
os.rename("new.csv","hotel.csv")
st="delete from booking where Customer_id={}".format(cid)
cursor.execute(st)
con.commit()
n = int(input("0-BACK\n ->"))
if n == 0:
    Home()
else:
    exit()

```

#CONTACT FUNCTION

```

def contact():
    print("-----")
    print("\t\tHotel Paradise")
    print("-----")
    print("\nHere's how you can contact us")
    print("\nTELEPHONE:")
    print("\n\t+91 612 2203040")
    print("\nFAX:")
    print("\n\t+91 612 2203060")
    print("\nADDRESS:")
    print("\n\tHotel Paradise, South Gandhi Maidan, Mumbai , Maharashtra - 400029, India")
    print('\nGENERAL ENQUIRIES:')
    print('\n\t+91 612 2203040')
    print('\n\takm@paradise.com')
    n = int(input("0-BACK\n ->"))
    if n == 0:
        Home()
    else:

```

exit()

def exit():

print("\nThank You for using our services")

Home()

con.close()

5. Modules of the proposed work

Structures:

- *Three structures are defined:* struct Bus to store bus information, struct Passenger to store passenger information, and struct User to store user login information. These structures help organize and manage data related to buses, passengers, and users.

2. *Display Functions:*

- *DisplayMainMenu:* Displays the main menu options for the user, including options to log in or exit the program.
- *displayUserMenu:* Displays the user menu options for a logged-in user, including booking a hotel, canceling a hotel, checking hotel status, and logging out.

3. *User Login Function:*

- *loginUser:* Takes an array of users, the number of users, and user-provided credentials (username and password). It checks if the provided credentials match any user in the array and returns the index of the logged-in user. If no match is found, it returns -1.

4. *Booking a Hotel Room:*

- *book Hotel:* the number of rooms, an array of guests and the index of the logged-in user. It allows the user to book a hotel room by providing hotel number, guest name, and age. It checks if the hotel room exists, has available rooms, and then assigns a room to the guest.

5. *Canceling a Hotel Room:*

- *cancel Hotel:* the number of rooms, an array of guests and the index of the logged-in user. It allows the user to cancel a hotel room by providing the guest's name. It checks if the guest is on the same room and then frees up the room.

6. *Checking hotel room Status:*

- *checkRoomStatus:* the number of rooms, and the index of the logged-in user. It displays information about a specific bus, including room number.

7. *Booking Services:*

- *checkBooing:* the Menu, and the index of the logged-in user. It displays information about a specific food items, including room number.

6. Results/Screenshots

```
mysql> desc booking;
```

Field	Type	Null	Key	Default	Extra
Name	varchar(20)	YES		NULL	
Phone_Number	varchar(10)	YES		NULL	
Email	varchar(30)	NO		NULL	
Check_In	date	YES		NULL	
Check_Out	date	YES		NULL	
Room_Type	varchar(25)	YES		NULL	
Price	int	YES		NULL	
Room_Number	int	YES		NULL	
Customer_id	int	YES		NULL	
Payment	varchar(5)	YES		NO	
Days	int	YES		NULL	

```
mysql> desc service;
```

Field	Type	Null	Key	Default	Extra
Name	varchar(20)	YES		NULL	
Customer_id	int	YES		NULL	
Service_Charge	int	YES		0	
Room_Bill	int	YES		NULL	

GREETINGS!

WELCOME TO HOTEL PARADISE

- 1 Booking A Room
- 2 Rooms Info
- 3 Room service(Food Menu)
- 4 Pay Bill
- 5 Search A Record
- 6 Delete Record
- 7 Contact Us
- 0 Exit

What Would You Like To Do? Enter Your Choice :7

Hotel Paradise

Here's how you can contact us

Here's how you can contact us

TELEPHONE:

+91 612 2203040

FAX:

+91 612 2203060

ADDRESS:

Hotel Paradise, South Gandhi Maidan, pune , Maharashtra - 500029, India

GENERAL ENQUIRIES:

+91 612 22010203

pmy@paradise.com

0-BACK

->0

GREETINGS!

WELCOME TO HOTEL PARADISE

WELCOME TO HOTEL PARADISE

- 1 Booking A Room
- 2 Rooms Info
- 3 Room service(Food Menu)
- 4 Pay Bill
- 5 Search A Record
- 6 Delete Record
- 7 Contact Us
- 0 Exit

What Would You Like To Do? Enter Your Choice :3

Customer Id: 1

User with the given Customer id is not registered.

0-BACK

->0

GREETINGS!

WELCOME TO HOTEL PARADISE

- 1 Booking A Room
- 2 Rooms Info
- 3 Room service(Food Menu)
- 4 Pay Bill
- 5 Search A Record
- 6 Delete Record
- 7 Contact Us
- 0 Exit

What Would You Like To Do? Enter Your Choice :1

BOOKING ROOMS

BOOKING ROOMS

Name :Rohit

Phone :6202003348

email :rk@gmail.com

Check-In Date(YYYY-MM-DD) :2023-11-15

Check-Out Date(YYYY-MM-DD) :2023-11-16

Booking for 2 days

----SELECT ROOM TYPE----

1. Standard
2. Standard Plus
3. Suites
4. Cottages

Press 0 for Room Prices

->0

1. Standard- Rs. 4000
2. Standard Plus - Rs. 4500
3. Suites - Rs. 5000
4. Cottages- Rs. 5500

->1

7.Conclusion

The hotel Reservation System provides an efficient and user-friendly solution for managing hotel bookings. It streamlines the reservation process, allows cancellations, and provides real-time information about rooms status. The modular design ensures scalability and ease of maintenance.

8. References

1. Python Programming Language Documentation -
[https://www.w3schools.com/python/python_reference.asp]
2. Mysql[<https://www.geeksforgeeks.org/mysql-common-mysql-queries/>]