

Database Management System

PROJECT TITLE :

RESORT MANAGEMENT SYSTEM

TEAM : (G – section)

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CHAPTER-1

INTRODUCTION

1.1 OBJECTIVES:

- The main objective of the project is to design and develop a user friendly-system □
Easy to use and an efficient computerized system.
- To develop an accurate and flexible system, for booking and cancelling the rooms and other needs present in the resort
- To study the functioning of Resort management System.
- To make a software fast in processing, with good user interface.
- To make software with good user interface so that user can change it and it should be used for a long time without error and maintenance.
- Computerization can be helpful as a means of saving time and money for the customer by allowing them do booking in just call .
- To provide better Graphical User Interface (GUI).
- In order to Provides Security ,used login and password method to secure the information about the customer details.
- Improving arrangements for customer coordination.
- Reducing paperwork.

1.2 LIMITATIONS:

- Time consumption in data entry as the records are to be manually entered by admin.

CHAPTER-2 Resort Management System Case Study

This case study focuses on designing and implementing a **Resort Management System** using Python, MySQL Workbench, and Tkinter. The system is intended to handle core management functions such as booking, cancellation, and viewing room availability. And all this is maintained by the admin to add rooms and any new features available in the Resort.

CHAPTER 3 3. DATABASE DESIGN

3.1 SOFTWARE REQUIREMENTS SPECIFICATION

3.1.2 System Requirements:

1. Software Requirements:

- **Python 3.x:** For developing backend logic.
- **MySQL Workbench:** For database design and management.
- **Tkinter:** For building the graphical user interface (GUI).

2. Functional Requirements:

- **Booking Management:**
 - Add new room bookings.
 - Check room availability before booking.
 - Generate booking confirmation and save booking details to the database.
- **Cancellation Management:**
 - Allow users to cancel existing bookings through the admin coordination.
 - Update room availability upon cancellation by the admin.
- **Customer Management:**
 - Maintain customer records.
- **Room Management:**
 - Manage room details, including type, price, and availability status.

Minimum Hardware Requirements:

1. Processor:

- **Intel Core i3** or equivalent (or higher)
- Dual-core processor for handling basic tasks smoothly

2. Memory (RAM):

- **4 GB RAM** (sufficient for running Python scripts, MySQL Workbench, and Tkinter GUI without lag)

3. Storage:

- **256 GB HDD** or **128 GB SSD** (for faster read/write speeds)
- Enough space to store MySQL database files and project-related resources.

4. Graphics:

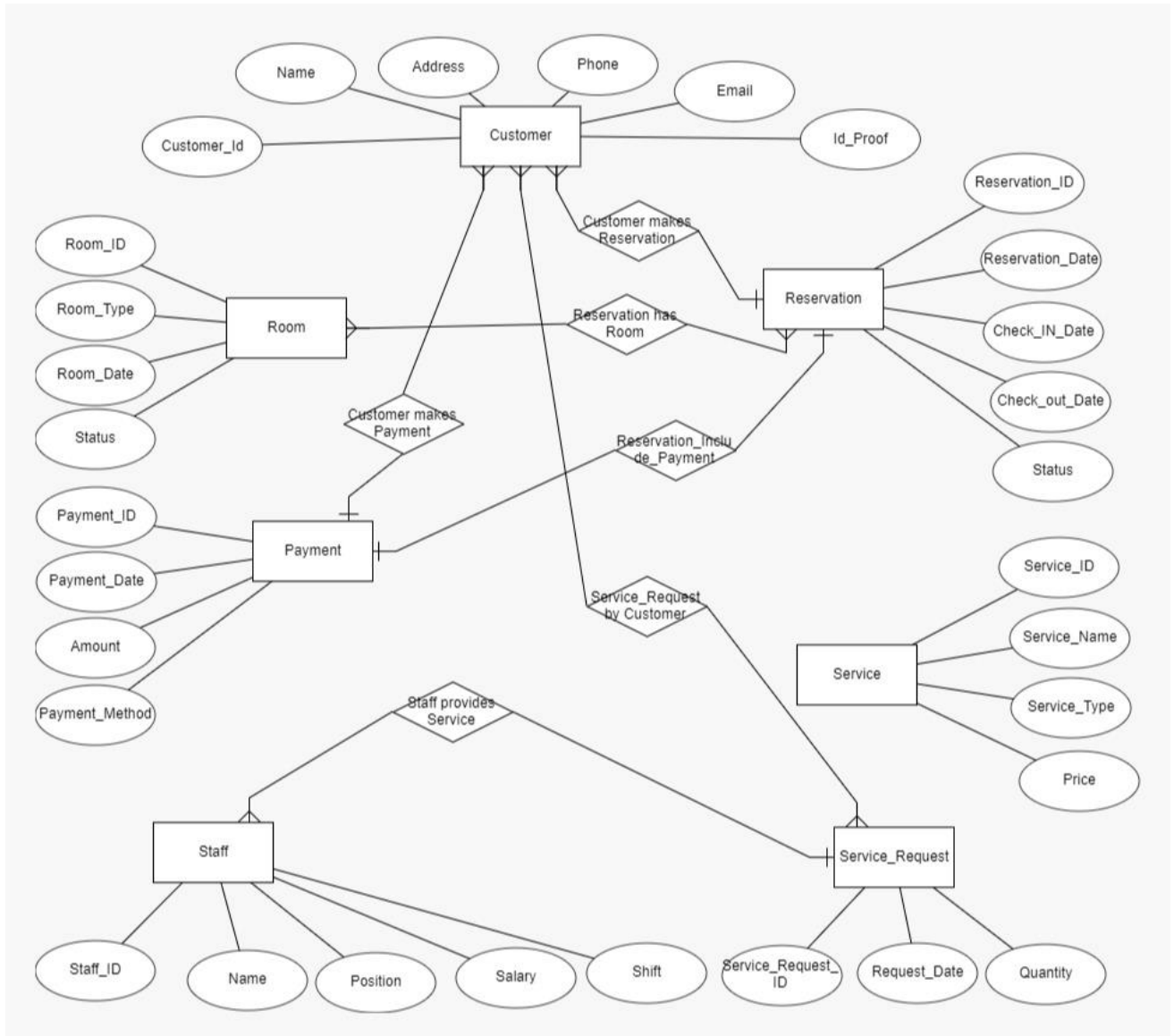
- Integrated graphics are sufficient since the project mainly involves text-based and GUI-based applications.

5. Operating System:

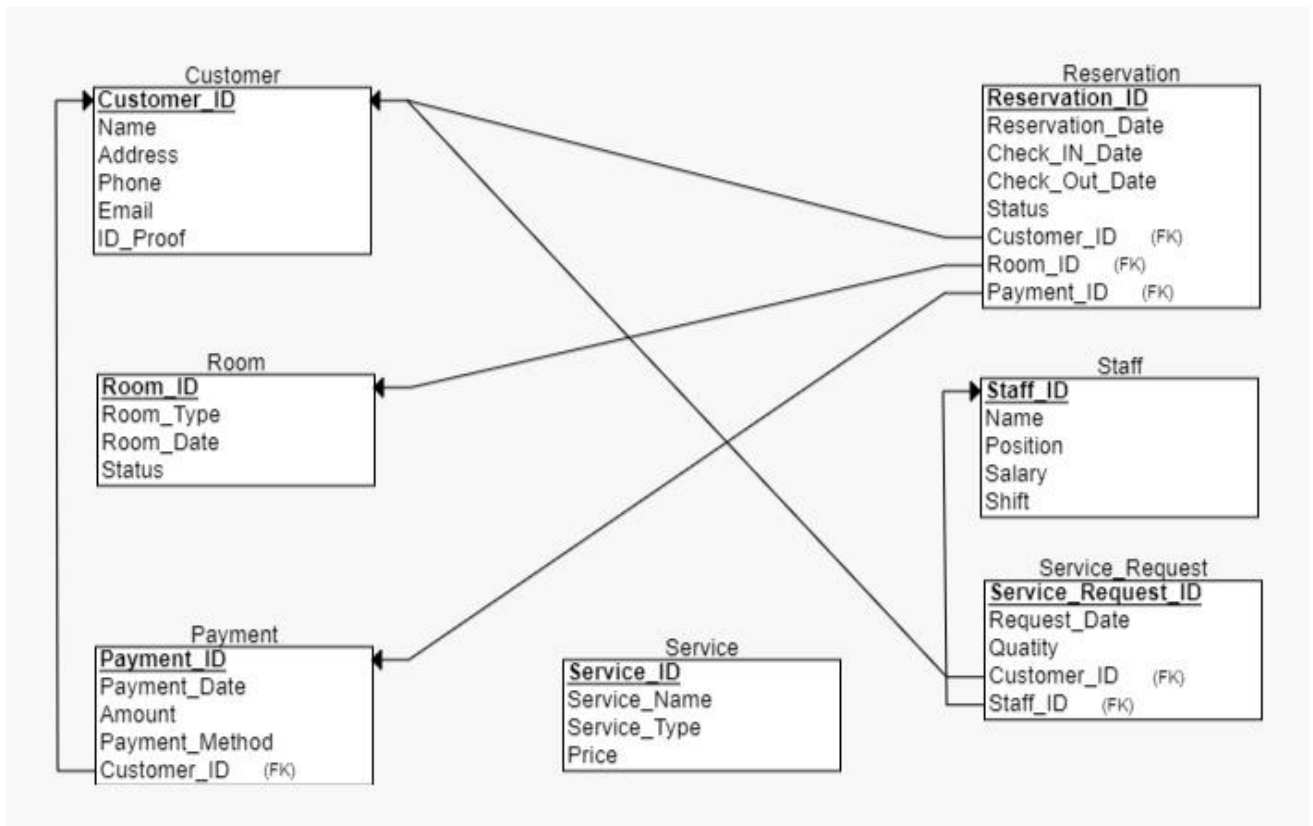
- **Windows 10/11, macOS, or a Linux distribution** (e.g., Ubuntu) that supports Python, MySQL, and Tkinter.

3.2 CONCEPTUAL DESIGN:

3.2.1 E-R DIAGRAM:



3.2.2 SCHEMA DIAGRAM:



Resort Management System Implementation Guide

1. System Setup and Configuration

- **Database Installation:**
 - Set up MySQL Workbench and configure a new database called resort_management where all tables and data related to customer management, room booking, and cancellations will be stored.
- **Python Environment Setup:**
 - Ensure Python is installed with necessary libraries for database connections (e.g., mysql-connector-python) and GUI development (Tkinter).
 - Configure environment variables and install dependencies as required.

2. Database Design

Define tables for core entities:

- **Customers Table:** Stores customer information, including personal details like name, email, and phone number.
- **Rooms Table:** Contains information on room types, prices, and availability status, allowing quick lookups for available rooms.
- **Bookings Table:** Records each booking's details, including the customer ID, room ID, check-in/check-out dates, and total cost.

- **Cancellations Table:** Stores records of canceled bookings, linking back to the Bookings table for tracking purposes.

3. Backend Logic Development

Customer Management:

- Create functions to add new customers to the system, search for existing customer details, and retrieve customer information for booking.

Room Availability:

- Implement functionality to check for room availability based on room type and the selected dates.
- Ensure a status update in the Rooms table when a room is booked or becomes available after a cancellation.

Booking Management:

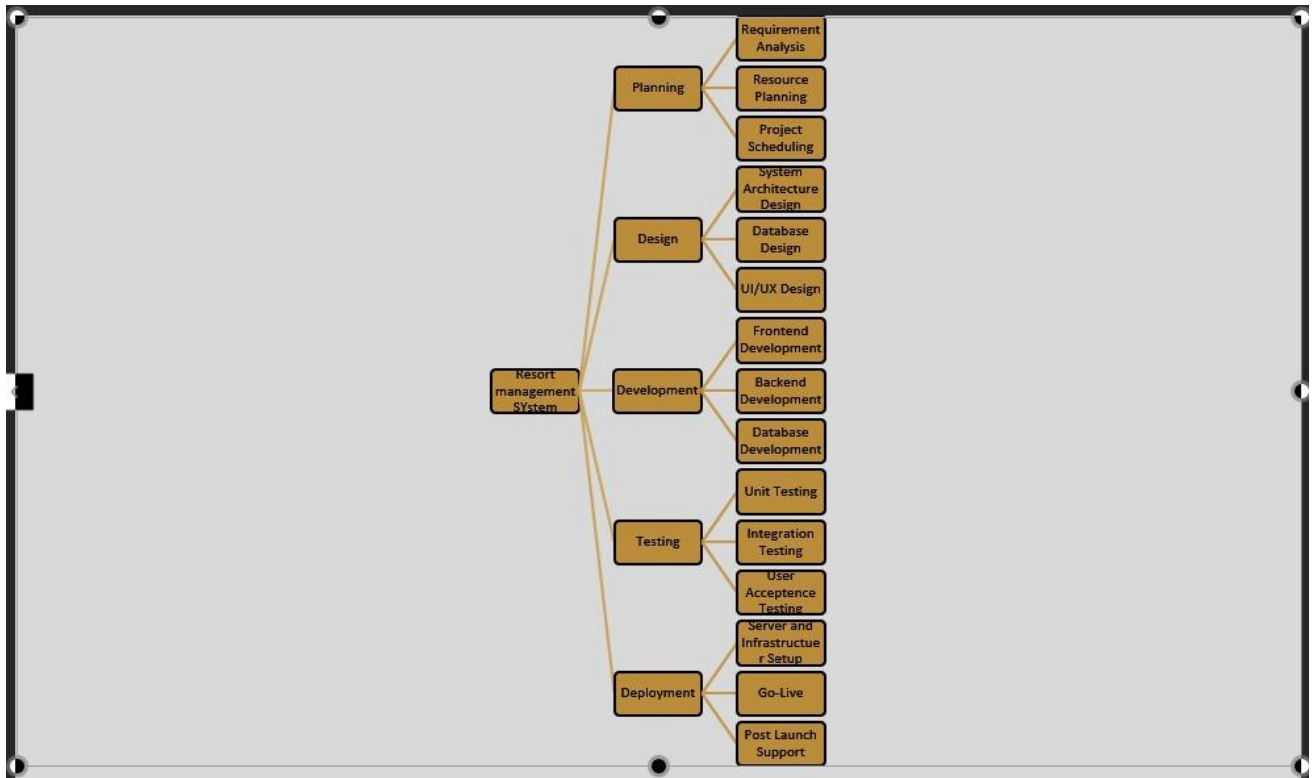
- Define the booking flow:
 - Validate customer details.
 - Confirm room availability.
 - Register the booking, update the room's availability status, and calculate the total cost.
- Handle **cancellation** requests by marking bookings as canceled and updating the room's availability status.

4. GUI Design with Tkinter

Design Principles:

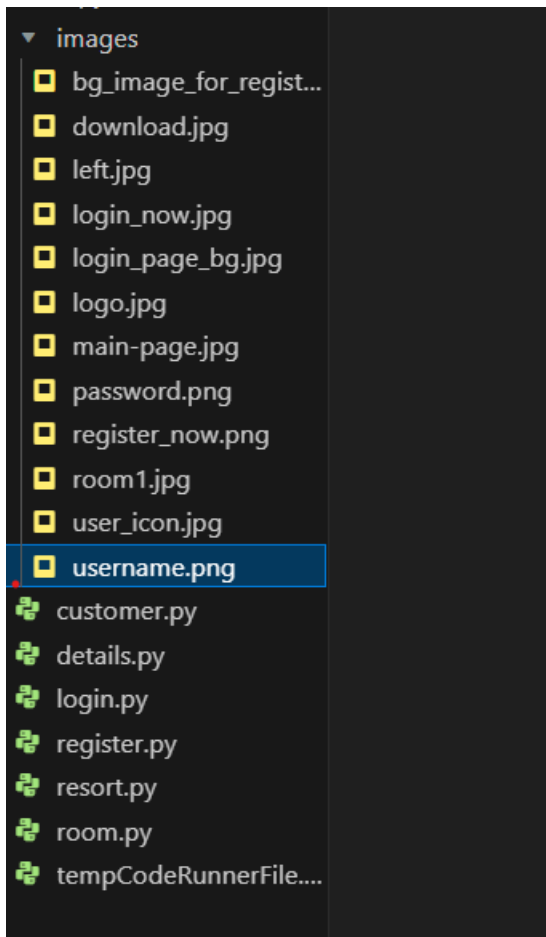
- Use Tkinter to create a user-friendly interface for resort management system.
- Split the interface into multiple screens or frames:
 - **Login Screen:** For secure access.
 - **Customer Registration:** Allows adding new customer information by the admin.
 - **Booking Interface:** Provides options to check room availability, input booking details.
 - **Cancellation Interface:** Allows retrieval of booking details and cancels them if required, But through contacting the admin.

Work breakdown structure



Frontend :

For better view of web the images downloaded and stored in the same folder



The workbench database looks like this

Registrations

MySQL Workbench interface showing the 'customer' table in the 'resort-management' database. The table structure is as follows:

Ref	name	Mother	Gender	PostCode	Mobile	Email	Nationality	Idproof	Id
1998	Rakesh C	Radha	Male	577137	8431724616	Raki@123	American	Aadhar	56
5642	chandra	mallamma	Male	87387	9481830228	chandra@123	Indian	Aadhar	83
5922	Radha	Lakshmi	Female	577137	8277580370	radha@123	Indian	Aadhar	78

The 'customer' table structure is also shown in the left sidebar:

Table: **customer**

Columns:

- fname varchar(45)
- lname varchar(45)
- contact varchar(45)
- email PK
- securityQ varchar(45)
- securityA varchar(45)
- password varchar(45)

Rooms availability in Resort

MySQL Workbench interface showing the 'details' table in the 'resort-management' database. The table structure is as follows:

Floor	RoomNo	RoomType
2	2001	Single
3	3000	Double
3	3001	Laxary

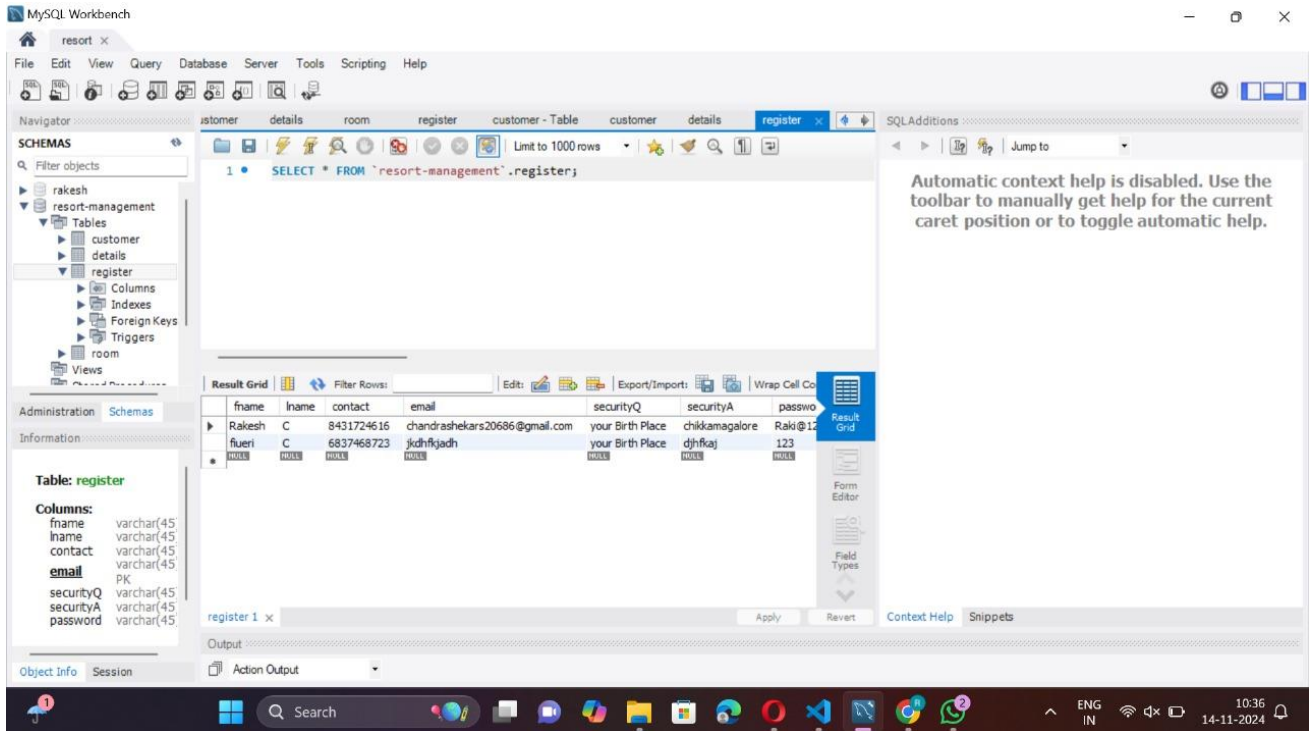
The 'details' table structure is also shown in the left sidebar:

Table: **details**

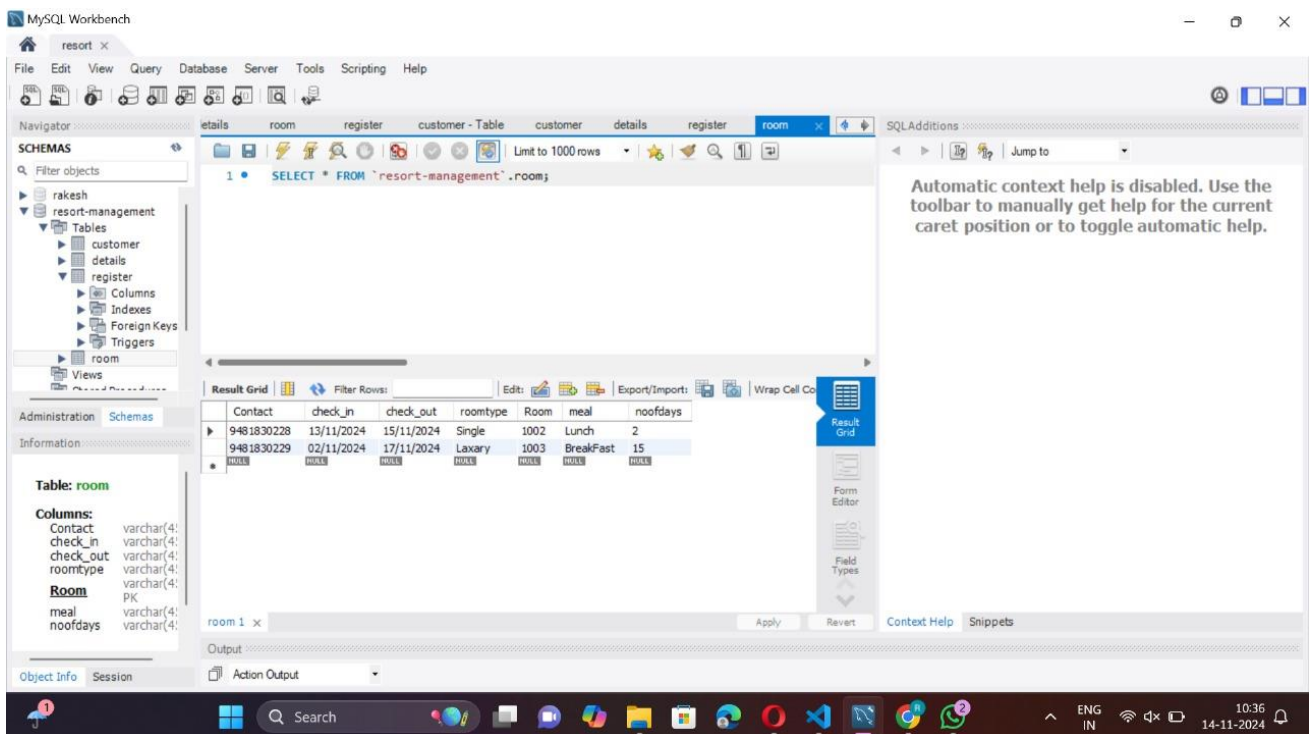
Columns:

- Floor varchar(45)
- RoomNo PK
- RoomType varchar(45)

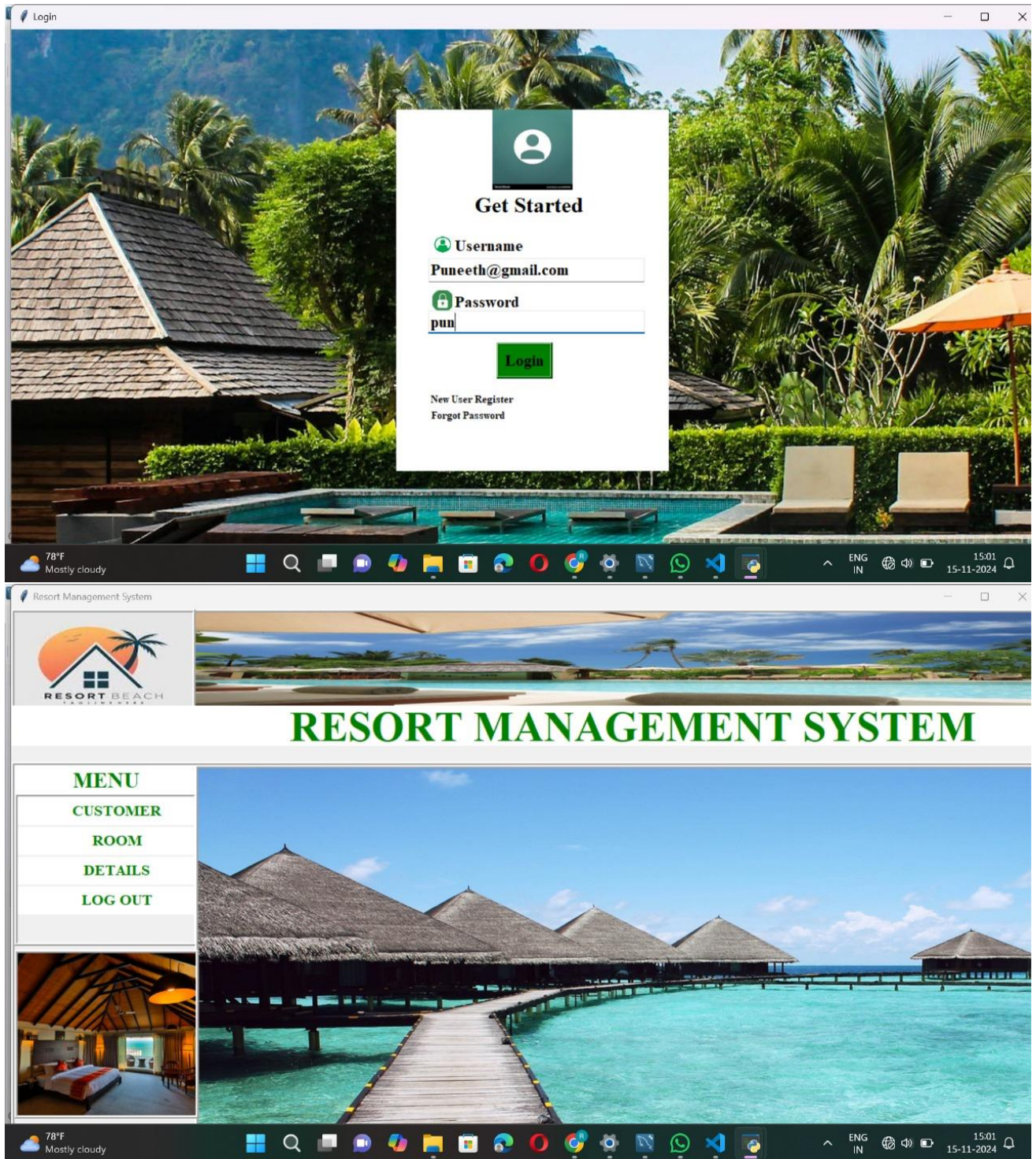
Registration details stored in this format




Booking details stored in this format



Frontend



Resort Management System



Add customer Details

customer Details

customer Ref

customer Name

Mother Name

Gender

PostCode

Mobile

Email

Nationality

Id Proof Type

Id Number


Address

View Details and Search System

Search By

Refer No	Name	Mother Name	Gender	PostCode	Mobile	Email	Natio
5850	rakesh	radha	Male	98383	9876654356	my@gmail.com	Indian
7493	rohan	mother	Male	73363	1234567890	rohan@gmail.cor	Indian

Resort Management System



ROOM BOOKING DETAILS

Room Booking

Customer Contact

Check_in Date

Check_out Date

Room Type

Available Room

Meal


No of Days

paid Tax

Sub Total

Total Cost

Name:
Gender:
Email:
Nationality:
Address:



View Details and Search System

Search By

Contact	Check-in	Check-out	Room Type	Room No	Meal	
1234567890	12/12/2024	14/12/2024	Single	1001	Lunch	2

resort management system

ROOM BOOKING DETAILS

Room Booking

Customer Contact Fetch Data

Check_in Date

Check_out Date

Room Type

Available Room

Meal

No of Days


paid Tax

Sub Total

Total Cost

Bill

Add Update Delete Reset



View Details and Search System

Search By Search Show

Contact	Check-in	Check-out	Room Type	Room No	Meal
1234567890	12/12/2024	14/12/2024	Single	1001	Lunch

Code :

Resort.py

```

from tkinter import*
from PIL import Image,ImageTk
from customer import Cust_Win
from room import Roombooking
from details import DetailsRoom

class ResortManagementSystem:
    def __init__(self,root):
        self.root=root

        self.root.title("Resort Management System")
        self.root.geometry("1550x800+0+0")

        img1=Image.open(r"C:\Users\CHANDRASHEKAR\OneDrive\Desktop\resort-management-system\images\download.jpg")
        img1 = img1.resize((1550, 140), Image.LANCZOS)

        self.photoimg1=ImageTk.PhotoImage(img1)

        lblimg = Label(self.root,image=self.photoimg1, bd=4, relief=RIDGE)
        lblimg.place(x=0,y=0,width=1550,height=140)

```

```

img2=Image.open(r"C:\Users\CHANDRASHEKAR\OneDrive\Desktop\resort-management-
system\images\logo.jpg")

img2 = img2.resize((230, 140), Image.LANCZOS)

self.photoimg2=ImageTk.PhotoImage(img2)

lblimg = Label(self.root,image=self.photoimg2, bd=4, relief=RIDGE)
lblimg.place(x=0,y=0,width=230,height=140)


lbl_title=Label(self.root,text="RESORT MANAGEMENT SYSTEM",font=("times new
roman",40,"bold"),bg="white",fg="green")
lbl_title.place(x=0,y=120,width=1550,height=50)

main_frame=Frame(self.root,bd=4,relief=RIDGE)
main_frame.place(x=0,y=190,width=1550,height=620)

lbl_menu=Label(main_frame,text="MENU",font=("times new
roman",20,"bold"),bg="white",fg="green")
lbl_menu.place(x=0,y=0,width=230)

btn_frame=Frame(main_frame,bd=4,relief=RIDGE)
btn_frame.place(x=0,y=35,width=228,height=190)

cust_btn=Button(btn_frame,text="CUSTOMER",command=self.Cust_details,width=22,font=("ti
mes new roman",14,"bold"),bg="white",fg="green",bd=0,cursor="hand1")
cust_btn.grid(row=0,column=0,pady=1)

room_btn=Button(btn_frame,text="ROOM",command=self.Roombooking,width=22,font=("times
new roman",14,"bold"),bg="white",fg="green",bd=0,cursor="hand1")
room_btn.grid(row=1,column=0,pady=1)

details_btn=Button(btn_frame,text="DETAILS",command=self.DetailsRoom,width=22,font=("ti
mes new roman",14,"bold"),bg="white",fg="green",bd=0,cursor="hand1")
details_btn.grid(row=2,column=0,pady=1)

report_btn=Button(btn_frame,text="REPORT",width=22,font=("times new
roman",14,"bold"),bg="white",fg="green",bd=0,cursor="hand1")
report_btn.grid(row=3,column=0,pady=1)

```



```

logout_btn=Button(btn_frame,text="LOG OUT",width=22,font=("times new
roman",14,"bold"),bg="white",fg="green",bd=0,cursor="hand1")

logout_btn.grid(row=4 ,column=0,pady=1)


img3=Image.open(r"C:\Users\CHANDRASHEKAR\OneDrive\Desktop\resort-management-
system\images\main-page.jpg")
img3 = img3.resize((1310, 590), Image.LANCZOS)

self.photoimg3=ImageTk.PhotoImage(img3)

lblimg1 = Label(main_frame,image=self.photoimg3, bd=4, relief=RIDGE)
lblimg1.place(x=225,y=0,width=1310,height=590)


img4=Image.open(r"C:\Users\CHANDRASHEKAR\OneDrive\Desktop\resort-management-
system\images\room1.jpg")
img4 = img4.resize((230, 210), Image.LANCZOS)

self.photoimg4=ImageTk.PhotoImage(img4)

lblimg2 = Label(main_frame,image=self.photoimg4, bd=4, relief=RIDGE)
lblimg2.place(x=0,y=230,width=230,height=210)


def Cust_details(self):
    self.new_window=Toplevel(self.root)
    self.app=Cust_Win(self.new_window)


def Roombooking(self):
    self.new_window=Toplevel(self.root)
    self.app=Roombooking(self.new_window)


def DetailsRoom(self):
    self.new_window=Toplevel(self.root)
    self.app=DetailsRoom(self.new_window)


if __name__ == "__main__":
    root=Tk()
    obj=ResortManagementSystem(root)
    root.mainloop()

```

Register.py

```
from tkinter import*
from tkinter import ttk
from PIL import Image,ImageTk
from tkinter import messagebox
import mysql.connector

class Register:
    def __init__(self,root):
        self.root=root
        self.root.title("Register")
        self.root.geometry("1600x900+0+0")

        #=====variables=====
        self.var_fname = StringVar()
        self.var_lname = StringVar()
        self.var_contact = StringVar()
        self.var_email = StringVar()
        self.var_securityQ = StringVar()
        self.var_SecurityA = StringVar()
        self.var_pass = StringVar()
        self.var_confpass = StringVar()

        #=====background image=====
        self.bg=ImageTk.PhotoImage(file=r"C:\Users\CHANDRASHEKAR\OneDrive\Desktop\resort-
management-system\images\bg_image_for_register.jpeg")
        bg_lbl=Label(self.root,image=self.bg)
        bg_lbl.place(x=0,y=0,relwidth=1,relheight=1)

        #=====left image=====
        self.bg1=ImageTk.PhotoImage(file=r"C:\Users\CHANDRASHEKAR\OneDrive\Desktop\resort-
management-system\images\left.jpg")
        left_lbl=Label(self.root,image=self.bg1)
        left_lbl.place(x=50,y=100,width=470,height=550)

        #=====mail frame
        frame=Frame(self.root,bg="white")
        frame.place(x=520,y=100,width=800,height=550)
```



```

#
register_lbl=Label(frame,text="REGISTER HERE", font=("times new
roman",20,"bold"),fg="green")
register_lbl.place(x=20,y=20)

#=====label and entry=====

#=====row1

fname=Label(frame,text="First Name",font=("times new
roman",15,"bold"),fg="black",bg="white")
fname.place(x=50,y=100)

fname_entry=ttk.Entry(frame,textvariable=self.var_fname,font=("times new roman",20,"bold"))
fname_entry.place(x=50,y=130,width=250)

l_name=Label(frame,text="Last Name",font=("times new
roman",15,"bold"),fg="black",bg="white")
l_name.place(x=370,y=100)

self.txt_lname=ttk.Entry(frame,textvariable=self.var_lname,font=("times new roman",15))
self.txt_lname.place(x=370,y=130,width=250)

#=====row2=====

contact=Label(frame,text="Contact No",font=("times new
roman",15,"bold"),bg="white",fg="black")
contact.place(x=50,y=170)

self.txt_contact=ttk.Entry(frame,textvariable=self.var_contact,font=("times new
roman",15,"bold"))
self.txt_contact.place(x=50,y=200,width=250)

email=Label(frame,text="Email",font=("times new roman",15,"bold"),fg="black",bg="white")
email.place(x=370,y=170)

self.txt_email=ttk.Entry(frame,textvariable=self.var_email,font=("times new roman",15,"bold"))
self.txt_email.place(x=370,y=200,width=250)

```

```

#=====row3=====

security_Q=Label(frame,text="Select security question",font=("times new
roman",15,"bold"),fg="black",bg="white")

security_Q.place(x=50,y=240)


self.combo_Security_Q=ttk.Combobox(frame,textvariable=self.var_securityQ,font=("times new
roman",15,"bold"),state="readonly")

self.combo_Security_Q["values"]=("select","your Birth Place","Your Girlfriends name","your
pet name")

self.combo_Security_Q.place(x=50,y=270,width=250)

self.combo_Security_Q.current(0)


security_A=Label(frame,text="Security Answer",font=("times new
roman",15,"bold"),bg="white",fg="black")

security_A.place(x=370,y=240)


self.txt_security=ttk.Entry(frame,textvariable=self.var_SecurityA,font=("times new
roman",15,"bold"))

self.txt_security.place(x=370,y=270,width=250)


#=====row4=====

pswd=Label(frame,text="Password",font=("times new
roman",15,"bold"),fg="black",bg="white")

pswd.place(x=50,y=310)


self.txt_pswd=ttk.Entry(frame,textvariable=self.var_pass,font=("times new roman",15,"bold"))

self.txt_pswd.place(x=50,y=340,width=250)


confirm_pswd=Label(frame,text=" Confirm Password",font=("times new
roman",15,"bold"),fg="black",bg="white")

confirm_pswd.place(x=370,y=310)


self.txt_confirm_pswd=ttk.Entry(frame,textvariable=self.var_confpass,font=("times new
roman",15,"bold"))

self.txt_confirm_pswd.place(x=370,y=340,width=250)


#=====check button=====

self.var_check=IntVar()

```

```

        checkbtn=Checkbutton(frame,variable=self.var_check,text="I agree the terms and
condition",font=("times new roman",12,"bold"),onvalue=1,offvalue=0)

        checkbtn.place(x=50,y=380)

#=====buttons=====

        img=Image.open(r"C:\Users\CHANDRASHEKAR\OneDrive\Desktop\resort-management-
system\images\register_now.png")

        img=img.resize((200,50),Image.LANCZOS)

        self.photoimage=ImageTk.PhotoImage(img)

        b1=Button(frame,image=self.photoimage,command=self.register_data,borderwidth=0,cursor="ha
nd2")

        b1.place(x=10,y=420,width=200,height=50)


        img1=Image.open(r"C:\Users\CHANDRASHEKAR\OneDrive\Desktop\resort-management-
system\images\login_now.jpg")

        img1=img1.resize((200,50),Image.LANCZOS)

        self.photoimage1=ImageTk.PhotoImage(img1)

        b1=Button(frame,image=self.photoimage1,borderwidth=0,cursor="hand2")

        b1.place(x=330,y=420,width=200,height=50)


def register_data(self):

    if self.var_fname.get()==" " or self.var_email.get()==" " or self.var_securityQ.get()=="Select":

        messagebox.showerror("Error","All fields are required")

    elif self.var_pass.get()!=self.var_confpass.get():

        messagebox.showerror("Error","Password and confirm password must be same")

    elif self.var_check.get()==0:

        messagebox.showerror("Error","Please Agree to our terms and conditions")

    else:

        conn=mysql.connector.connect(host="127.0.0.1",username="root",password="rakesh@123",da
tabase="resort-management")

        my_cursor=conn.cursor()

        query=("select * from register where email=%s")

        value=(self.var_email.get(),)

        my_cursor.execute(query,value)

        row=my_cursor.fetchone()

        if row!=None:

            messagebox.showerror("Error","User already exist please try another email")

        else:

```

```

        my_cursor.execute("insert into register values(%s,%s,%s,%s,%s,%s,%s)",(
                                                    self.var_fname.get(),
                                                    self.var_lname.get(),
                                                    self.var_contact.get(),
                                                    self.var_email.get(),
                                                    self.var_securityQ.get(),
                                                    self.var_SecurityA.get(),
                                                    self.var_pass.get()
                                                    ))

        conn.commit()
        conn.close()
        messagebox.showinfo("Success", "Registered Successfullt")

```

```

if __name__ == "__main__":
    root=Tk()
    app=Register(root)
    root.mainloop()

```

Room.py

```

from tkinter import*
from PIL import Image,ImageTk
from tkinter import ttk
import random
from time import strftime
from datetime import datetime
import mysql.connector
from tkinter import messagebox

```

```

class Roombooking:
    def __init__(self,root):
        self.root=root

        self.root.title("Resort Management System")
        self.root.geometry("1295x550+230+220")

        #=====variables=====

        self.var_contact=StringVar()
        self.var_CheckIn=StringVar()

```

```

self.var_CheckOut=StringVar()
self.var_RoomType=StringVar()
self.var_RoomAvailable=StringVar()
self.var_Meal=StringVar()
self.var_NoOfDays=StringVar()
self.var_PaidTax=StringVar()
self.var_ActualTotal=StringVar()
self.var_Total=StringVar()

#=====title=====

lbl_title=Label(self.root,text="ROOM BOOKING DETAILS ",font=("times new
roman",15,"bold"),bg="white",fg="green")
lbl_title.place(x=0,y=0,width=1295,height=50)

#=====logo=====

img2=Image.open(r"C:\Users\CHANDRASHEKAR\OneDrive\Desktop\resort-management-
system\images\logo.jpg")
img2 = img2.resize((100, 40), Image.LANCZOS)

self.photoimg2=ImageTk.PhotoImage(img2)

lblimg = Label(self.root,image=self.photoimg2, bd=0, relief=RIDGE)
lblimg.place(x=5,y=2,width=100,height=40)

#=====lableframe=====

labelframeleft=LabelFrame(self.root,bd=2,relief=RIDGE,text="Room Booking",font=("times new
roman",12,"bold"),padx=2)
labelframeleft.place(x=5,y=50,width=425,height=490)

#=====labels and entrys=====#

#constomer contact

lbl_cust_contact=Label(labelframeleft,text="Customer Contact",font=("times new
roman",12,"bold"),padx=2,pady=6)
lbl_cust_contact.grid(row=0,column=0,sticky=W)

```

```

    enty_contact=ttk.Entry(labelframeleft,textvariable=self.var_contact,width=20,font=("times new
roman",13,"bold"))

    enty_contact.grid(row=0,column=1,sticky=W)

    #fetch data button

    btnFetchData=Button(labelframeleft,command=self.Fetch_contact,text="Fetch
Data",font=("arial",8,"bold"),bg="white",fg="green",width=9)

    btnFetchData.place(x=347,y=4)

    #Check-in data

    check_in_data=Label(labelframeleft,font=("arial",12,"bold"),text="Check_in
Date",padx=2,pady=6)

    check_in_data.grid(row=1,column=0,sticky=W)

    textcheck_in_date=ttk.Entry(labelframeleft,textvariable=self.var_CheckIn,font=("arial",13,"bold
"),width=29)

    textcheck_in_date.grid(row=1,column=1)

    #Check_out data

    check_out_data=Label(labelframeleft,font=("arial",12,"bold"),text="Check_out
Date",padx=2,pady=6)

    check_out_data.grid(row=2,column=0,sticky=W)

    textcheck_out_date=ttk.Entry(labelframeleft,textvariable=self.var_CheckOut,font=("arial",13,"b
old"),width=29)

    textcheck_out_date.grid(row=2,column=1)

    #Room type

    label_RoomType=Label(labelframeleft,font=("arial",12,"bold"),text="Room
Type",padx=2,pady=6)

    label_RoomType.grid(row=3,column=0,sticky=W)

    conn=mysql.connector.connect(host="127.0.0.1",username="root",password="rakesh@123",data
base="resort-management")

    my_cursor=conn.cursor()

    my_cursor.execute("select RoomType from details")

    ide=my_cursor.fetchall()

    combo_RoomType=ttk.Combobox(labelframeleft,textvariable=self.var_RoomType,font=("arial",1
2,"bold"),width=27,state="readonly")

    combo_RoomType["value"]=ide

    combo_RoomType.current(0)

    combo_RoomType.grid(row=3,column=1)

```

```

#Available rooms
lblRoomAvailable=Label(labelframeleft,font=("arial",12,"bold"),text=" Available
Room",padx=2,pady=6)
lblRoomAvailable.grid(row=4,column=0,sticky=W)
#textRoomAvailable=ttk.Entry(labelframeleft,textvariable=self.var_RoomAvailable,font=("arial",
13,"bold"),width=29)
#textRoomAvailable.grid(row=4,column=1)
conn=mysql.connector.connect(host="127.0.0.1",username="root",password="rakesh@123",data
base="resort-management")
my_cursor=conn.cursor()
my_cursor.execute("select RoomNo from details")
rows=my_cursor.fetchall()

combo_RoomNo=ttk.Combobox(labelframeleft,textvariable=self.var_RoomAvailable,font=("arial
",12,"bold"),width=27,state="readonly")
combo_RoomNo["value"]=rows
combo_RoomNo.current(0)
combo_RoomNo.grid(row=4,column=1)

#Meal
lblMeal=Label(labelframeleft,font=("arial",12,"bold"),text="Meal",padx=2,pady=6)
lblMeal.grid(row=5,column=0,sticky=W)
textMeal=ttk.Entry(labelframeleft,textvariable=self.var_Meal,font=("arial",13,"bold"),width=29)
textMeal.grid(row=5,column=1)

#No of Days
lblNoOfDays=Label(labelframeleft,font=("arial",12,"bold"),text="No of Days",padx=2,pady=6)
lblNoOfDays.grid(row=6,column=0,sticky=W)
textNoOfDays=ttk.Entry(labelframeleft,textvariable=self.var_NoOfDays,font=("arial",13,"bold"),
width=29)
textNoOfDays.grid(row=6,column=1)

#paid tax
lblNoOfDays=Label(labelframeleft,font=("arial",12,"bold"),text="paid Tax",padx=2,pady=6)
lblNoOfDays.grid(row=7,column=0,sticky=W)
textNoOfDays=ttk.Entry(labelframeleft,textvariable=self.var_PaidTax,font=("arial",13,"bold"),wi
dth=29)
textNoOfDays.grid(row=7,column=1)

#Sub total

```

```

lblNoOfDays=Label(labelframeleft,font=("arial",12,"bold"),text="Sub Total",padx=2,pady=6)
lblNoOfDays.grid(row=8,column=0,sticky=W)

textNoOfDays=ttk.Entry(labelframeleft,textvariable=self.var_ActualTotal,font=("arial",13,"bold"
),width=29)
textNoOfDays.grid(row=8,column=1)

#Total Cost
lblNoOfDays=Label(labelframeleft,font=("arial",12,"bold"),text="Tatal Cost",padx=2,pady=6)
lblNoOfDays.grid(row=9,column=0,sticky=W)

textNoOfDays=ttk.Entry(labelframeleft,textvariable=self.var_Total,font=("arial",13,"bold"),widt
h=29)
textNoOfDays.grid(row=9,column=1)

#=====Bill button

btnBill=Button(labelframeleft,text="Bill",command=self.total,font=("arial",12,"bold"),bg="white
",fg="green",width=9)
btnBill.grid(row=10,column=0,padx=1,sticky=W)

#=====buttons=====

btn_frame=Frame(labelframeleft,bd=2,relief=RIDGE)
btn_frame.place(x=0,y=400,width=412,height=40)

btnAdd=Button(btn_frame,text="Add",command=self.add_data,font=("arial",12,"bold"),bg="w
hite",fg="green",width=9)
btnAdd.grid(row=0,column=0,padx=1)

btnupdate=Button(btn_frame,text="Update",command=self.update,font=("arial",12,"bold"),bg=
"white",fg="green",width=9)
btnupdate.grid(row=0,column=1,padx=1)

btnDelete=Button(btn_frame,text="Delete",command=self.Delete,font=("arial",12,"bold"),bg="w
hite",fg="green",width=9)
btnDelete.grid(row=0,column=2,padx=1)

btnreset=Button(btn_frame,text="Reset",command=self.reset,font=("arial",12,"bold"),bg="white
",fg="green",width=9)
btnreset.grid(row=0,column=3,padx=1)

```



```

#=====Right side image=====

img3=Image.open(r"C:\Users\CHANDRASHEKAR\OneDrive\Desktop\resort-management-
system\images\room1.jpg")
img3 = img3.resize((520, 200), Image.LANCZOS)

self.photoimg3=ImageTk.PhotoImage(img3)

lblimg = Label(self.root,image=self.photoimg3, bd=0, relief=RIDGE)
lblimg.place(x=760,y=55,width=520,height=200)

#=====table frame for search system=====

Table_Frame=LabelFrame(self.root,bd=2,relief=RIDGE,text="View Details and Search
System",font=("times new roman",12,"bold"),padx=2)
Table_Frame.place(x=435,y=280,width=860,height=260)

lblSearchBy=Label(Table_Frame,font=("arial",12,"bold"),text="Search
By",bg="white",fg="green")
lblSearchBy.grid(row=0,column=0,sticky=W,padx=2)

self.search_var=StringVar()

combo_Search=ttk.Combobox(Table_Frame,font=("arial",12,"bold"),width=24,state="readonly")
combo_Search["value"]=("Contact","Room")
combo_Search.current(0)
combo_Search.grid(row=0,column=1,padx=2)

self.txt_search=StringVar()
txtSearch=ttk.Entry(Table_Frame,font=("arial",13,"bold"),width=24)
txtSearch.grid(row=0,column=2,padx=2)

btnSearch=Button(Table_Frame,text="Search",command=self.search,font=("arial",12,"bold"),bg
="white",fg="green",width=10)
btnSearch.grid(row=0,column=3,padx=1)

```

```

    btnShowAll=Button(Table_Frame,text="Show
All",command=self.fetch_data,font=("arial",12,"bold"),bg="white",fg="green",width=10)

    btnShowAll.grid(row=0,column=4,padx=1)

#=====show data table=====

    details_table = Frame(Table_Frame, bd=2, relief=RIDGE)
    details_table.place(x=0, y=50, width=880, height=180)

# Creating horizontal and vertical scrollbars

    Scroll_x = ttk.Scrollbar(details_table, orient=HORIZONTAL)
    Scroll_y = ttk.Scrollbar(details_table, orient=VERTICAL)

# Configuring the Treeview and attaching scrollbars

    self.room_table = ttk.Treeview(
        details_table,
        columns=("contact", "CheckIn", "CheckOut", "RoomType", "RoomAvailable", "Meal",
        "NoOfDays"),
        xscrollcommand=Scroll_x.set,
        yscrollcommand=Scroll_y.set)

# Packing the scrollbars

    Scroll_x.pack(side=BOTTOM, fill=X)
    Scroll_y.pack(side=RIGHT, fill=Y)

# Configuring the scroll commands to link with Treeview

    Scroll_x.config(command=self.room_table.xview)
    Scroll_y.config(command=self.room_table.yview)

# Packing the Treeview widget to occupy the frame

    self.room_table.pack(fill=BOTH, expand=1)

    self.room_table.heading("contact",text="contact")
    self.room_table.heading("CheckIn",text="Check-in")
    self.room_table.heading("CheckOut",text="Check-out")
    self.room_table.heading("RoomType",text="Room Type")
    self.room_table.heading("RoomAvailable",text="Room No")
    self.room_table.heading("Meal",text="Meal")
    self.room_table.heading("NoOfDays",text="NoOfDays")

```

```

self.room_table["show"]="headings"


self.room_table.column("contact",width=100)
self.room_table.column("CheckIn",width=100)
self.room_table.column("CheckOut",width=100)
self.room_table.column("RoomType",width=100)
self.room_table.column("RoomAvailable",width=100)
self.room_table.column("Meal",width=100)
self.room_table.column("NoOfDays",width=100)
self.room_table.pack(fill=BOTH,expand=1)


self.room_table.bind("<ButtonRelease-1>",self.get_cursor)
self.fetch_data()


def add_data(self):
if self.var_contact.get()==" " or self.var_CheckIn.get()==" ":
    messagebox.showerror("Error","All fields are required",parent=self.root)
else:
    try:
        conn = mysql.connector.connect(
            host="127.0.0.1", # MySQL server IP (local in this case)
            username="root", # MySQL username
            password="rakesh@123", # Replace with your password
            database="resort-management" # Replace with your database name
        )
        my_cursor=conn.cursor()
        my_cursor.execute("insert into room values(%s,%s,%s,%s,%s,%s,%s,%s)",(
            self.var_contact.get(),
            self.var_CheckIn.get(),
            self.var_CheckOut.get(),
            self.var_RoomType.get(),
            self.var_RoomAvailable.get(),
            self.var_Meal.get(),
            self.var_NoOfDays.get()
        ))

```

```

        conn.commit()
        self.fetch_data()
        conn.close()
        messagebox.showinfo("Success","Room Booked",parent=self.root)
except Exception as es:
    messagebox.showwarning("Warning",f"something went wrong: {str(es)}",parent=self.root)

#fetch data
def fetch_data(self):
    conn=mysql.connector.connect(host="127.0.0.1",username="root",password="rakesh@123",da
tabase="resort-management")
    my_cursor=conn.cursor()
    my_cursor.execute("select * from room")
    rows=my_cursor.fetchall()
    if len(rows)!=0:
        self.room_table.delete(*self.room_table.get_children())
        for i in rows:
            self.room_table.insert("",END,values=i)
    conn.commit()
    conn.close()

def get_cursor(self,event=""):
    cursor_row=self.room_table.focus()
    content=self.room_table.item(cursor_row)
    row=content["values"]

    self.var_contact.set(row[0]),
    self.var_CheckIn.set(row[1]),
    self.var_CheckOut.set(row[2]),
    self.var_RoomType.set(row[3]),
    self.var_RoomAvailable.set(row[4]),
    self.var_Meal.set(row[5]),
    self.var_NoOfDays.set(row[6])

#update function
def update(self):
    if self.var_contact.get() == "":
        messagebox.showerror("Error", "Please enter mobile number", parent=self.root)

```

```

        else:

            conn = mysql.connector.connect(host="127.0.0.1", username="root",
            password="rakesh@123", database="resort-management")

            my_cursor = conn.cursor()

            # Corrected UPDATE query with consistent number of placeholders and variables
            my_cursor.execute(""" UPDATE room SET contact=%s, check_in=%s, check_out=%s,
            roomtype=%s, roomavailable=%s, meal=%s, noofdays=%s WHERE contact=%s """, (

self.var_contact.get(), # contact value to be updated

self.var_CheckIn.get(),

self.var_CheckOut.get(),

self.var_RoomType.get(),

self.var_RoomAvailable.get(),

self.var_Meal.get(),

self.var_NoOfDays.get(),

self.var_contact.get() # contact value in WHERE condition

            ))

            conn.commit()
            self.fetch_data()
            conn.close()

            messagebox.showinfo("Update", "Room details have been updated successfully",
            parent=self.root)

            #delete function
            def Delete(self):

                Delete=messagebox.askyesno("Resort management System","Do you want to delete this
                customer",parent=self.root)

                if Delete>0:

                    conn=mysql.connector.connect(host="127.0.0.1",username="root",password="rakesh@123
                    ",database="resort-management")

                    my_cursor=conn.cursor()

                    query="delete from room where contact=%s"

                    value=(self.var_contact.get(),)

```

```

        my_cursor.execute(query,value)
    else:
        if not Delete:
            return
    conn.commit()
    self.fetch_data()
    conn.close()

#reset function
def reset(self):
    self.var_contact.set(""),
    self.var_CheckIn.set(""),
    self.var_CheckOut.set(""),
    self.var_RoomType.set(""),
    self.var_RoomAvailable.set(""),
    self.var_Meal.set(""),
    self.var_NoOfDays.set("")
    self.var_PaidTax.set("")
    self.var_ActualTotal.set("")
    self.var_Total.set("")

#=====all data fetch=====

def Fetch_contact(self):
    if self.var_contact.get()=="":
        messagebox.showerror("Error","Please Enter contact number",parent=self.root)
    else:
        conn = mysql.connector.connect(host="127.0.0.1", username="root",
password="rakesh@123", database="resort-management")
        my_cursor = conn.cursor()
        query=("select Name from customer where Mobile=%s")
        value=(self.var_contact.get(),)
        my_cursor.execute(query,value)
        row=my_cursor.fetchone()

        if row==None:
            messagebox.showerror("Error","This number Not found",parent=self.root)

```

```

else:
    conn.commit()
    conn.close()

showDataframe=Frame(self.root,bd=4,relief=RIDGE,padx=2)
showDataframe.place(x=450,y=55,width=300,height=180)

lblName=Label(showDataframe,text="Name:",font=("arial",12,"bold"))
lblName.place(x=0,y=0)

lbl=Label(showDataframe,text=row,font=("arial",12,"bold"))
lbl.place(x=90,y=0)
conn = mysql.connector.connect(host="127.0.0.1", username="root",
password="rakesh@123", database="resort-management")
my_cursor = conn.cursor()
query=("select Gender from customer where Mobile=%s")
value=(self.var_contact.get(),)
my_cursor.execute(query,value)
row=my_cursor.fetchone()

lblGender=Label(showDataframe,text="Gender:",font=("arial",12,"bold"))
lblGender.place(x=0,y=30)

lbl2=Label(showDataframe,text=row,font=("arial",12,"bold"))
lbl2.place(x=90,y=30)

#=====email=====

conn = mysql.connector.connect(host="127.0.0.1", username="root",
password="rakesh@123", database="resort-management")
my_cursor = conn.cursor()
query=("select Email from customer where Mobile=%s")
value=(self.var_contact.get(),)
my_cursor.execute(query,value)
row=my_cursor.fetchone()

lblEmail=Label(showDataframe,text="Email:",font=("arial",12,"bold"))
lblEmail.place(x=0,y=60)

```

```
lbl3=Label(showDataframe,text=row,font=("arial",12,"bold"))
```

```
lbl3.place(x=90,y=60)
```

```
#=====nationality=====
```

```
conn = mysql.connector.connect(host="127.0.0.1", username="root",  
password="rakesh@123", database="resort-management")
```

```
my_cursor = conn.cursor()
```

```
query=("select Nationality from customer where Mobile=%s")
```

```
value=(self.var_contact.get(),)
```

```
my_cursor.execute(query,value)
```

```
row=my_cursor.fetchone()
```

```
lblNationality=Label(showDataframe,text="Nationality:",font=("arial",12,"bold"))
```

```
lblNationality.place(x=0,y=90)
```

```
lbl4=Label(showDataframe,text=row,font=("arial",12,"bold"))
```

```
lbl4.place(x=90,y=90)
```

```
#=====address=====
```

```
conn = mysql.connector.connect(host="127.0.0.1", username="root",  
password="rakesh@123", database="resort-management")
```

```
my_cursor = conn.cursor()
```

```
query=("select Address from customer where Mobile=%s")
```

```
value=(self.var_contact.get(),)
```

```
my_cursor.execute(query,value)
```

```
row=my_cursor.fetchone()
```

```
lblAddress=Label(showDataframe,text="Address:",font=("arial",12,"bold"))
```

```
lblAddress.place(x=0,y=120)
```

```
lbl5=Label(showDataframe,text=row,font=("arial",12,"bold"))
```

```
lbl5.place(x=90,y=120)
```

```
def search(self):
```

```
conn = mysql.connector.connect(
```

```
host="127.0.0.1",
```

```
username="root",
```

```
password="rakesh@123",
```



```

database="resort-management"
)
my_cursor = conn.cursor()

# Retrieve the column name and search text
column_name = str(self.search_var.get()).strip()
search_text = str(self.txt_search.get()).strip()

# Check if we are searching the 'Ref' column (assuming 'Ref' is a numeric field)
if column_name == "Contact":
    query = f"SELECT * FROM room WHERE `Contact` = %s"
    my_cursor.execute(query, (search_text,))
else:
    # Use LIKE for other text-based searches
    query = f"SELECT * FROM room WHERE `Room` LIKE %s"
    my_cursor.execute(query, ("% " + search_text + " %",))

rows = my_cursor.fetchall()

if len(rows) != 0:
    self.room_table.delete(*self.room_table.get_children())
    for row in rows:
        self.room_table.insert("", END, values=row)

    conn.commit()
    conn.close()

def total(self):
    inDate=self.var_CheckIn.get()
    outDate=self.var_CheckOut.get()
    inDate=datetime.strptime(inDate,"%d/%m/%Y")
    outDate=datetime.strptime(outDate,"%d/%m/%Y")
    self.var_NoOfDays.set(abs(outDate-inDate).days)

    if(self.var_Meal.get()=="BreakFast" and self.var_RoomType.get()=="Laxary"):

```

```

q1=float(300)
q2=float(700)
q3=float(self.var_NoOfDays.get())
q4=float(q1+q2)
q5=float(q3+q4)
Tax="Rs. "+str("%.2f"%((q5)*0.09))
ST="Rs. "+str("%.2f"%((q5)))
TT="Rs. "+str("%.2f"%(q5+((q5)*0.09)))
self.var_PaidTax.set(Tax)
self.var_ActualTotal.set(ST)
self.var_Total.set(TT)

elif (self.var_Meal.get()=="Lunch" and self.var_RoomType.get()=="Single"):
    q1=float(300)
    q2=float(700)
    q3=float(self.var_NoOfDays.get())
    q4=float(q1+q2)
    q5=float(q3+q4)
    Tax="Rs. "+str("%.2f"%((q5)*0.09))
    ST="Rs. "+str("%.2f"%((q5)))
    TT="Rs. "+str("%.2f"%(q5+((q5)*0.09)))
    self.var_PaidTax.set(Tax)
    self.var_ActualTotal.set(ST)
    self.var_Total.set(TT)

elif (self.var_Meal.get()=="BreakFast" and self.var_RoomType.get()=="Duplex"):
    q1=float(500)
    q2=float(1000)
    q3=float(self.var_NoOfDays.get())
    q4=float(q1+q2)
    q5=float(q3+q4)
    Tax="Rs. "+str("%.2f"%((q5)*0.09))
    ST="Rs. "+str("%.2f"%((q5)))
    TT="Rs. "+str("%.2f"%(q5+((q5)*0.09)))
    self.var_PaidTax.set(Tax)
    self.var_ActualTotal.set(ST)
    self.var_Total.set(TT)

if __name__ == "__main__":

```

```
root=Tk()
obj=Roombooking(root)
root.mainloop()
```

Customer.py

```
from tkinter import*
from PIL import Image,ImageTk
from tkinter import ttk
import random
import mysql.connector
from tkinter import messagebox

class Cust_Win:
    def __init__(self,root):
        self.root=root
        self.root.title("Resort Management System")
        self.root.geometry("1295x550+230+220")

        #===== variables=====

        self.var_ref=StringVar()
        x=random.randint(1000,9999)
        self.var_ref.set(str(x))

        self.var_cust_name=StringVar()
        self.var_mother=StringVar()
        self.var_gender=StringVar()
        self.var_post=StringVar()
        self.var_mobile=StringVar()
        self.var_email=StringVar()
        self.var_nationality=StringVar()
        self.var_address=StringVar()
        self.var_id_proof=StringVar()
        self.var_id_number=StringVar()
```

```
#=====title=====
```

```
lbl_title=Label(self.root,text="Add Customer Details",font=("times new  
roman",15,"bold"),bg="white",fg="green")
```

```
lbl_title.place(x=0,y=0,width=1295,height=50)
```

```
img2=Image.open(r"C:\Users\CHANDRASHEKAR\OneDrive\Desktop\resort-management-  
system\images\logo.jpg")
```

```
img2 = img2.resize((100, 40), Image.LANCZOS)
```

```
self.photoimg2=ImageTk.PhotoImage(img2)
```

```
lblimg = Label(self.root,image=self.photoimg2, bd=0, relief=RIDGE)
```

```
lblimg.place(x=5,y=2,width=100,height=40)
```

```
## =====lableframe=====#
```

```
labelframeleft=LabelFrame(self.root,bd=2,relief=RIDGE,text="Customer Details",font=("times  
new roman",12,"bold"),padx=2)
```

```
labelframeleft.place(x=5,y=50,width=425,height=490)
```

```
#=====labels and entrys=====#
```

```
lbl_cust_ref=Label(labelframeleft,text="Customer Ref",font=("times new  
roman",12,"bold"),padx=2,pady=6)
```

```
lbl_cust_ref.grid(row=0,column=0,sticky=W)
```

```
enty_ref=ttk.Entry(labelframeleft,textvariable=self.var_ref,width=29,font=("times new  
roman",13,"bold"),state="readonly")
```

```
enty_ref.grid(row=0,column=1)
```

```
#cust_name
```

```
cname=Label(labelframeleft,font=("arial",12,"bold"),text="Customer Name",padx=2,pady=6)
```

```
cname.grid(row=1,column=0,sticky=W)
```

```
txtcname=ttk.Entry(labelframeleft,textvariable=self.var_cust_name,font=("arial",13,"bold"),widt  
h=29)
```

```
txtcname.grid(row=1,column=1)
```

```
#mother name
```

```

lblmname=Label(labelframeleft,font=("arial",12,"bold"),text="Mother Name",padx=2,pady=6)
lblmname.grid(row=2,column=0,sticky=W)
txtmname=ttk.Entry(labelframeleft,textvariable=self.var_mother,font=("arial",13,"bold"),width=
29)
txtmname.grid(row=2,column=1)

#gender
lable_gender=Label(labelframeleft,font=("arial",12,"bold"),text="Gender",padx=2,pady=6)
lable_gender.grid(row=3,column=0,sticky=W)

combo_gender=ttk.Combobox(labelframeleft,textvariable=self.var_gender,font=("arial",12,"bold
"),width=27,state="readonly")
combo_gender["value"]=("Male","Female","Other")
combo_gender.current(0)
combo_gender.grid(row=3,column=1)

#postcode
lblPostCode=Label(labelframeleft,font=("arial",12,"bold"),text="PostCode",padx=2,pady=6)
lblPostCode.grid(row=4,column=0,sticky=W)
txtPostCode=ttk.Entry(labelframeleft,textvariable=self.var_post,font=("arial",13,"bold"),width=2
9)
txtPostCode.grid(row=4,column=1)

#mobile number
lblMobile=Label(labelframeleft,font=("arial",12,"bold"),text="Mobile",padx=2,pady=6)
lblMobile.grid(row=5,column=0,sticky=W)
txtMobile=ttk.Entry(labelframeleft,textvariable=self.var_mobile,font=("arial",13,"bold"),width=2
9)
txtMobile.grid(row=5,column=1)

#email
lblEmail=Label(labelframeleft,font=("arial",12,"bold"),text="Email",padx=2,pady=6)
lblEmail.grid(row=6,column=0,sticky=W)
txtEmail=ttk.Entry(labelframeleft,textvariable=self.var_email,font=("arial",13,"bold"),width=29)
txtEmail.grid(row=6,column=1)

#nationality
lblNationality=Label(labelframeleft,font=("arial",12,"bold"),text="Nationality",padx=2,pady=6)

```

```

lblNationality.grid(row=7,column=0,sticky=W)

combo_Natinality=tkk.Combobox(labelframeleft,textvariable=self.var_nationality,font=("arial",12,"bold"),width=27,state="readonly")
combo_Natinality["value"]=("Indian","American","British")
combo_Natinality.current(0)
combo_Natinality.grid(row=7,column=1)

#idproof type combobox
lblIdProof=Label(labelframeleft,font=("arial",12,"bold"),text="Id Proof Type",padx=2,pady=6)
lblIdProof.grid(row=8,column=0,sticky=W)

combo_id=tkk.Combobox(labelframeleft,textvariable=self.var_id_proof,font=("arial",12,"bold"),width=27,state="readonly")
combo_id["value"]=("Aadhar","Voter Id","Driving Licence","Passport")
combo_id.current(0)
combo_id.grid(row=8,column=1)

#id number
lblIdNumber=Label(labelframeleft,font=("arial",12,"bold"),text="Id Number",padx=2,pady=6)
lblIdNumber.grid(row=9,column=0,sticky=W)
txtIdNumber=tkk.Entry(labelframeleft,textvariable=self.var_id_number,font=("arial",13,"bold"),width=29)
txtIdNumber.grid(row=9,column=1)

#address
lblAddress=Label(labelframeleft,font=("arial",12,"bold"),text="Address",padx=2,pady=6)
lblAddress.grid(row=10,column=0,sticky=W)
txtAddress=tkk.Entry(labelframeleft,textvariable=self.var_address,font=("arial",13,"bold"),width=29)
txtAddress.grid(row=10,column=1)

#=====buttons=====
btn_frame=Frame(labelframeleft,bd=2,relief=RIDGE)
btn_frame.place(x=0,y=400,width=412,height=40)

btnAdd=Button(btn_frame,text="Add",command=self.add_data,font=("arial",12,"bold"),bg="white",fg="green",width=9)
btnAdd.grid(row=0,column=0,padx=1)

```

```
btnupdate=Button(btn_frame,text="Update",command=self.update,font=("arial",12,"bold"),bg="white",fg="green",width=9)
```

```
btnupdate.grid(row=0,column=1,padx=1)
```

```
btnDelete=Button(btn_frame,text="Delete",command=self.Delete,font=("arial",12,"bold"),bg="white",fg="green",width=9)
```

```
btnDelete.grid(row=0,column=2,padx=1)
```

```
btnreset=Button(btn_frame,text="Reset",command=self.reset,font=("arial",12,"bold"),bg="white",fg="green",width=9)
```

```
btnreset.grid(row=0,column=3,padx=1)
```

```
#=====table frame=====
```

```
Table_Frame=LabelFrame(self.root,bd=2,relief=RIDGE,text="View Details and Search System",font=("times new roman",12,"bold"),padx=2)
```

```
Table_Frame.place(x=435,y=50,width=860,height=490)
```

```
lblSearchBy=Label(Table_Frame,font=("arial",12,"bold"),text="Search By",bg="white",fg="green")
```

```
lblSearchBy.grid(row=0,column=0,sticky=W,padx=2)
```

```
self.search_var=StringVar()
```

```
combo_Search=ttk.Combobox(Table_Frame,textvariable=self.search_var,font=("arial",12,"bold"),width=24,state="readonly")
```

```
combo_Search["value"]=("Mobile No","Ref")
```

```
combo_Search.current(0)
```

```
combo_Search.grid(row=0,column=1,padx=2)
```

```
self.txt_search=StringVar()
```

```
txtSearch=ttk.Entry(Table_Frame,textvariable=self.txt_search,font=("arial",13,"bold"),width=24)
```

```
txtSearch.grid(row=0,column=2,padx=2)
```

```
btnSearch=Button(Table_Frame,text="Search",command=self.search,font=("arial",12,"bold"),bg="white",fg="green",width=10)
```

```
btnSearch.grid(row=0,column=3,padx=1)
```

```

    btnShowAll=Button(Table_Frame,text="Show
All",command=self.fetch_data,font=("arial",12,"bold"),bg="white",fg="green",width=10)

    btnShowAll.grid(row=0,column=4,padx=1)


#=====show data table=====

    details_table = Frame(Table_Frame, bd=2, relief=RIDGE)
    details_table.place(x=0, y=50, width=880, height=360)


# Creating horizontal and vertical scrollbars
    Scroll_x = ttk.Scrollbar(details_table, orient=HORIZONTAL)
    Scroll_y = ttk.Scrollbar(details_table, orient=VERTICAL)


# Configuring the Treeview and attaching scrollbars
    self.Cust_Details_Table = ttk.Treeview(
        details_table,
        columns=("ref", "name", "mother", "gender", "post", "mobile", "email", "nationality",
        "idproof", "idnumber", "address"),
        xscrollcommand=Scroll_x.set,
        yscrollcommand=Scroll_y.set)


# Packing the scrollbars
    Scroll_x.pack(side=BOTTOM, fill=X)
    Scroll_y.pack(side=RIGHT, fill=Y)


# Configuring the scroll commands to link with Treeview
    Scroll_x.config(command=self.Cust_Details_Table.xview)
    Scroll_y.config(command=self.Cust_Details_Table.yview)


# Packing the Treeview widget to occupy the frame
    self.Cust_Details_Table.pack(fill=BOTH, expand=1)


    self.Cust_Details_Table.heading("ref",text="Refer No")
    self.Cust_Details_Table.heading("name",text="Name")
    self.Cust_Details_Table.heading("mother",text="Mother Name")
    self.Cust_Details_Table.heading("gender",text="Gender")
    self.Cust_Details_Table.heading("post",text="PostCode")

```



```

self.Cust_Details_Table.heading("mobile",text="Mobile")
self.Cust_Details_Table.heading("email",text="Email")
self.Cust_Details_Table.heading("nationality",text="Nationality")
self.Cust_Details_Table.heading("idproof",text="Id Proof")
self.Cust_Details_Table.heading("idnumber",text="Id Number")
self.Cust_Details_Table.heading("address",text="Address")


self.Cust_Details_Table["show"]="headings"


self.Cust_Details_Table.column("ref",width=100)
self.Cust_Details_Table.column("name",width=100)
self.Cust_Details_Table.column("mother",width=100)
self.Cust_Details_Table.column("gender",width=100)
self.Cust_Details_Table.column("post",width=100)
self.Cust_Details_Table.column("mobile",width=100)
self.Cust_Details_Table.column("email",width=100)
self.Cust_Details_Table.column("nationality",width=100)
self.Cust_Details_Table.column("idproof",width=100)
self.Cust_Details_Table.column("idnumber",width=100)
self.Cust_Details_Table.column("address",width=100)


self.Cust_Details_Table.pack(fill=BOTH,expand=1)
self.Cust_Details_Table.bind("<ButtonRelease-1>",self.get_cursor)
self.fetch_data()


def add_data(self):
    if self.var_mobile.get()==" " or self.var_mother.get()==" ":
        messagebox.showerror("Error","All fields are required",parent=self.root)
    else:
        try:
            conn = mysql.connector.connect(
                host="127.0.0.1", # MySQL server IP (local in this case)
                username="root", # MySQL username
                password="rakesh@123", # Replace with your password
                database="resort-management" # Replace with your database name
            )

```

```

my_cursor=conn.cursor()
my_cursor.execute("insert into customer values(%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s)",(
    self.var_ref.get(),
    self.var_cust_name.get(),
    self.var_mother.get(),
    self.var_gender.get(),
    self.var_post.get(),
    self.var_mobile.get(),
    self.var_email.get(),
    self.var_nationality.get(),
    self.var_id_proof.get(),
    self.var_id_number.get(),
    self.var_address.get()
))

conn.commit()
self.fetch_data()
conn.close()

messagebox.showinfo("Success","Customer has been added",parent=self.root)
except Exception as es:
    messagebox.showwarning("Warning",f"something went wrong: {str(es)}",parent=self.root)

def fetch_data(self):
    conn=mysql.connector.connect(host="127.0.0.1",username="root",password="rakesh@123",database="resort-management")
    my_cursor=conn.cursor()
    my_cursor.execute("select * from Customer")
    rows=my_cursor.fetchall()
    if len(rows)!=0:
        self.Cust_Details_Table.delete(*self.Cust_Details_Table.get_children())
        for i in rows:
            self.Cust_Details_Table.insert("",END,values=i)
    conn.commit()
    conn.close()

def get_cursor(self,event=""):
    cursor_row=self.Cust_Details_Table.focus()
    content=self.Cust_Details_Table.item(cursor_row)
    row=content["values"]

```

```

self.var_ref.set(row[0]),
self.var_cust_name.set(row[1]),
self.var_mother.set(row[2]),
self.var_gender.set(row[3]),
self.var_post.set(row[4]),
self.var_mobile.set(row[5]),
self.var_email.set(row[6]),
self.var_nationality.set(row[7]),
self.var_id_proof.set(row[8]),
self.var_id_number.set(row[9]),
self.var_address.set(row[10])

def update(self):
    if self.var_mobile.get() == "":
        messagebox.showerror("Error", "Please enter mobile number", parent=self.root)
    else:
        conn = mysql.connector.connect(host="127.0.0.1", username="root",
password="rakesh@123", database="resort-management")
        my_cursor = conn.cursor()

        # Use backticks around `Id Number` to avoid syntax errors
        my_cursor.execute(""" UPDATE customer
SET Name=%s, Mother=%s, Gender=%s, PostCode=%s, Mobile=%s, Email=%s,
Nationality=%s,
Idproof=%s, `Id Number`=%s, Address=%s WHERE Ref=%s """, (
            self.var_cust_name.get(),
            self.var_mother.get(),
            self.var_gender.get(),
            self.var_post.get(),
            self.var_mobile.get(),
            self.var_email.get(),
            self.var_nationality.get(),
            self.var_id_proof.get(),
            self.var_id_number.get(),
            self.var_address.get(),
            self.var_ref.get()
        ))

```

```

        conn.commit()
        self.fetch_data()
        conn.close()
        messagebox.showinfo("Update", "Customer details have been updated successfully",
parent=self.root)

def Delete(self):
    Delete=messagebox.askyesno("Resort management System","Do you want to delete this
customer",parent=self.root)
    if Delete>0:
        conn=mysql.connector.connect(host="127.0.0.1",username="root",password="rakesh@123
",database="resort-management")
        my_cursor=conn.cursor()
        query="delete from Customer where Ref=%s"
        value=(self.var_ref.get(),)
        my_cursor.execute(query,value)
    else:
        if not Delete:
            return
        conn.commit()
        self.fetch_data()
        conn.close()

def reset(self):
    self.var_ref.set(""),
    self.var_cust_name.set(""),
    self.var_mother.set(""),
    #self.var_gender.set(""),
    self.var_post.set(""),
    self.var_mobile.set(""),
    self.var_email.set(""),
    #self.var_nationality.set(""),
    #self.var_id_proof.set(""),
    self.var_id_number.set(""),
    self.var_address.set("")

    x=random.randint(1000,9999)
    self.var_ref.set(str(x))

```

```

def search(self):
    conn = mysql.connector.connect(
        host="127.0.0.1",
        username="root",
        password="rakesh@123",
        database="resort-management"
    )
    my_cursor = conn.cursor()

    # Retrieve the column name and search text
    column_name = str(self.search_var.get()).strip()
    search_text = str(self.txt_search.get()).strip()

    # Check if we are searching the 'Ref' column (assuming 'Ref' is a numeric field)
    if column_name == "Ref":
        query = f"SELECT * FROM Customer WHERE `Ref` = %s"
        my_cursor.execute(query, (search_text,))
    else:
        # Use LIKE for other text-based searches
        query = f"SELECT * FROM Customer WHERE `Mobile` LIKE %s"
        my_cursor.execute(query, ("% " + search_text + "%",))

    rows = my_cursor.fetchall()

    if len(rows) != 0:
        self.Cust_Details_Table.delete(*self.Cust_Details_Table.get_children())
        for row in rows:
            self.Cust_Details_Table.insert("", END, values=row)

        conn.commit()
        conn.close()

if __name__ == "__main__":
    root=Tk()
    obj=Cust_Win(root)
    root.mainloop()

```

details.py

```
from tkinter import*
from PIL import Image,ImageTk
from tkinter import ttk
import random
from time import strptime
from datetime import datetime
import mysql.connector
from tkinter import messagebox

class DetailsRoom:
    def __init__(self,root):
        self.root=root
        self.root.title("Resort Management System")
        self.root.geometry("1295x550+230+220")

        #=====title=====

        lbl_title=Label(self.root,text="ROOM BOOKING DETAILS ",font=("times new
roman",15,"bold"),bg="white",fg="green")
        lbl_title.place(x=0,y=0,width=1295,height=50)
        #=====logo=====

        img2=Image.open(r"C:\Users\CHANDRASHEKAR\OneDrive\Desktop\resort-management-
system\images\logo.jpg")
        img2 = img2.resize((100, 40), Image.LANCZOS)

        self.photoimg2=ImageTk.PhotoImage(img2)

        lblimg = Label(self.root,image=self.photoimg2, bd=0, relief=RIDGE)
        lblimg.place(x=5,y=2,width=100,height=40)
        #=====lableframe=====
```

```
labelframeleft=LabelFrame(self.root,bd=2,relief=RIDGE,text=" New Add Room",font=("times new roman",12,"bold"),padx=2)
```

```
labelframeleft.place(x=5,y=50,width=540,height=350)
```

```
#Floor
```

```
lbl_floor=Label(labelframeleft,text="Floor",font=("times new roman",12,"bold"),padx=2,pady=6)
```

```
lbl_floor.grid(row=0,column=0,sticky=W)
```

```
self.var_Floor=StringVar()
```

```
enty_floor=ttk.Entry(labelframeleft,textvariable=self.var_Floor,width=20,font=("times new roman",13,"bold"))
```

```
enty_floor.grid(row=0,column=1,sticky=W)
```

```
#Room No
```

```
lbl_RoomNo=Label(labelframeleft,text="Room No",font=("times new roman",12,"bold"),padx=2,pady=6)
```

```
lbl_RoomNo.grid(row=1,column=0,sticky=W)
```

```
self.var_RoomNo=StringVar()
```

```
enty_RoomNo=ttk.Entry(labelframeleft,textvariable=self.var_RoomNo,width=20,font=("times new roman",13,"bold"))
```

```
enty_RoomNo.grid(row=1,column=1,sticky=W)
```

```
#Room type
```

```
lbl_RoomType=Label(labelframeleft,text="Room Type",font=("times new roman",12,"bold"),padx=2,pady=6)
```

```
lbl_RoomType.grid(row=2,column=0,sticky=W)
```

```
self.var_RoomType=StringVar()
```

```
enty_RoomType=ttk.Entry(labelframeleft,textvariable=self.var_RoomType,width=20,font=("times new roman",13,"bold"))
```

```
enty_RoomType.grid(row=2,column=1,sticky=W)
```

```
#=====buttons=====
```

```
btn_frame=Frame(labelframeleft,bd=2,relief=RIDGE)
```

```
btn_frame.place(x=0,y=200,width=412,height=40)
```

```
btnAdd=Button(btn_frame,text="Add",command=self.add_data,font=("arial",12,"bold"),bg="white",fg="green",width=9)
```

```
btnAdd.grid(row=0,column=0,padx=1)
```

```
btnupdate=Button(btn_frame,text="Update",command=self.update,font=("arial",12,"bold"),bg="white",fg="green",width=9)
```

```
btnupdate.grid(row=0,column=1,padx=1)
```

```
btnDelete=Button(btn_frame,text="Delete",command=self.Delete,font=("arial",12,"bold"),bg="white",fg="green",width=9)
```

```
btnDelete.grid(row=0,column=2,padx=1)
```

```
btnreset=Button(btn_frame,text="Reset",command=self.reset,font=("arial",12,"bold"),bg="white",fg="green",width=9)
```

```
btnreset.grid(row=0,column=3,padx=1)
```

```
#=====table frame for search=====
```

```
Table_Frame=LabelFrame(self.root,bd=2,relief=RIDGE,text="Show Room Details",font=("times new roman",12,"bold"),padx=2)
```

```
Table_Frame.place(x=600,y=55,width=600,height=350)
```

```
# Creating horizontal and vertical scrollbars
```

```
Scroll_x = ttk.Scrollbar(Table_Frame, orient=HORIZONTAL)
```

```
Scroll_y = ttk.Scrollbar(Table_Frame, orient=VERTICAL)
```

```
# Configuring the Treeview and attaching scrollbars
```

```
self.room_table = ttk.Treeview(  
    Table_Frame,  
    columns=("Floor", "RoomNo", "RoomType"),  
    xscrollcommand=Scroll_x.set,  
    yscrollcommand=Scroll_y.set)
```

```
# Packing the scrollbars
```

```
Scroll_x.pack(side=BOTTOM, fill=X)
```

```
Scroll_y.pack(side=RIGHT, fill=Y)
```


Configuring the scroll commands to link with Treeview

Scroll_x.config(command=self.room_table.xview)

Scroll_y.config(command=self.room_table.yview)

self.room_table.heading("Floor",text="Floor")

self.room_table.heading("RoomNo",text="Room No")

self.room_table.heading("RoomType",text="Room Type")

self.room_table["show"]="headings"

self.room_table.column("Floor",width=100)

self.room_table.column("RoomNo",width=100)

self.room_table.column("RoomType",width=100)

self.room_table.pack(fill=BOTH,expand=1)

self.room_table.bind("<ButtonRelease-1>",self.get_cursor)

self.fetch_data()

def add_data(self):

if self.var_Floor.get()=="" or self.var_RoomType.get()=="":

messagebox.showerror("Error","All fields are required",parent=self.root)

else:

try:

conn = mysql.connector.connect(

host="127.0.0.1", # MySQL server IP (local in this case)

username="root", # MySQL username

password="rakesh@123", # Replace with your password

database="resort-management" # Replace with your database name

)

my_cursor=conn.cursor()

my_cursor.execute("insert into Details values(%s,%s,%s)",(

self.var_Floor.get(),

self.var_RoomNo.get(),

```

        self.var_RoomType.get()

    ))

    conn.commit()
    self.fetch_data()
    conn.close()
    messagebox.showinfo("Success","New Room Added Successfully",parent=self.root)
except Exception as es:
    messagebox.showwarning("Warning",f"something went wrong: {str(es)}",parent=self.root)

#fetch data
def fetch_data(self):
    conn=mysql.connector.connect(host="127.0.0.1",username="root",password="rakesh@123"
,database="resort-management")
    my_cursor=conn.cursor()
    my_cursor.execute("select * from details")
    rows=my_cursor.fetchall()
    if len(rows)!=0:
        self.room_table.delete(*self.room_table.get_children())
        for i in rows:
            self.room_table.insert("",END,values=i)
    conn.commit()
    conn.close()

def get_cursor(self,event=""):
    cursor_row=self.room_table.focus()
    content=self.room_table.item(cursor_row)
    row=content["values"]

    self.var_Floor.set(row[0]),
    self.var_RoomNo.set(row[1]),
    self.var_RoomType.set(row[2])

#update function
def update(self):
    if self.var_Floor.get() == "":
        messagebox.showerror("Error", "Please enter Floor number", parent=self.root)

```

```

else:

    conn = mysql.connector.connect(host="127.0.0.1", username="root",
password="rakesh@123", database="resort-management")

    my_cursor = conn.cursor()

# Corrected UPDATE query with consistent number of placeholders and variables
my_cursor.execute(""" UPDATE details SET Floor=%s, RoomType=%s WHERE RoomNo=%s
""", (

                                self.var_Floor.get(),
                                self.var_RoomType.get(),
                                self.var_RoomNo.get()

                                ))

    conn.commit()

    self.fetch_data()

    conn.close()

    messagebox.showinfo("Update", " New Room details have been updated successfully",
parent=self.root)

#delete function
def Delete(self):

    Delete=messagebox.askyesno("Resort management System","Do you want to delete this
Room",parent=self.root)

    if Delete>0:

        conn=mysql.connector.connect(host="127.0.0.1",username="root",password="rakesh@1
23",database="resort-management")

        my_cursor=conn.cursor()

        query="delete from details where RoomNo=%s"

        value=(self.var_RoomNo.get(),)

        my_cursor.execute(query,value)

    else:

        if not Delete:

            return

        conn.commit()

        self.fetch_data()

        conn.close()

```

```
#reset function  
def reset(self):  
    self.var_Floor.set(""),  
    self.var_RoomNo.set(""),  
    self.var_RoomType.set("")
```

```
if __name__ == "__main__":  
    root=Tk()  
    obj=DetailsRoom(root)  
    root.mainloop()
```

TempCodeRunnerFile.py

```
if __name__ == "__main__":  
    root=Tk()  
    app=Login_Window(root)  
    root.mainloop()
```