KONGU ENGINEERING COLLEGE

(Autonomous)

PERUNDURAI ERODE – 638 060

HOTEL MANAGEMENT SYSTEM

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PYTHON PROGRAMMING AND FRAMEWORKS (22ITT32)

DEPARTMENT OF INFORMATION TECHNOLOGY

CODING:

main.py:

```
import tkinter as tk
from tkinter import messagebox
from admin_dashboard import AdminDashboard
from user_dashboard import UserDashboard
from db import create_db, check_user_credentials, register_user
create_db()

def register():
    username = entry_username.get()
    password = entry_password.get()
    contact = entry_contact.get()

    if username and password and contact:
        try:
            register_user(username, password, contact)
            messagebox.showinfo("Registration Successful", "You can now
log in.")
        except Exception as e:
            messagebox.showerror("Error", f"Registration failed: {e}")
    else:
        messagebox.showerror("Error", "Username, password, and contact are
required.")

def login():
    username = entry_username.get()
    password = entry_password.get()

    if username == "admin" and password == "admin":
        login_window.destroy()
        AdminDashboard().run()
    else:
        user = check_user_credentials(username, password)
        if user:
            login_window.destroy()
            UserDashboard(user[0]).run()
        else:
            messagebox.showerror("Login Failed", "Invalid username or
password")

login_window = tk.Tk()
login_window.title("Hotel Management System - Login")
login_window.geometry("300x300")

tk.Label(login_window, text="Username").pack(pady=5)
entry_username = tk.Entry(login_window)
entry_username.pack(pady=5)

tk.Label(login_window, text="Password").pack(pady=5)
entry_password = tk.Entry(login_window, show="*")
```

```
entry_password.pack(pady=5)

tk.Label(login_window, text="Contact (for new users)").pack(pady=5)
entry_contact = tk.Entry(login_window)
entry_contact.pack(pady=5)

tk.Button(login_window, text="Register", command=register).pack(pady=5)
tk.Button(login_window, text="Login", command=login).pack(pady=20)

login_window.mainloop()
```

user_dashboard.py:

```
import tkinter as tk
from tkinter import messagebox, simpledialog
from db import get_available_rooms, book_room, check_out_room

class UserDashboard:
    def __init__(self, user_id):
        self.user_id = user_id
        self.window = tk.Tk()
        self.window.title("User Dashboard")
        self.window.geometry("400x500")

        tk.Button(self.window, text="View Available Rooms",
command=self.view_rooms).pack(pady=10)
        tk.Button(self.window, text="Book Room",
command=self.book_room).pack(pady=10)
        tk.Button(self.window, text="Check-Out",
command=self.check_out).pack(pady=10)
        tk.Button(self.window, text="Logout",
command=self.logout).pack(pady=10)

    def view_rooms(self):
        rooms = get_available_rooms()
        room_info = "\n".join([f"Room {r[1]} - {r[2]} (Amenities: {r[3]},
Price: {r[4]})" for r in rooms])
        messagebox.showinfo("Available Rooms", room_info if room_info else
"No rooms available.")

    def book_room(self):
        room_id = simpledialog.askinteger("Book Room", "Enter Room ID to
book:")
        check_in = simpledialog.askstring("Book Room", "Enter Check-in
Date (YYYY-MM-DD):")
        check_out = simpledialog.askstring("Book Room", "Enter Check-out
Date (YYYY-MM-DD):")

        if room_id and check_in and check_out:
            book_room(self.user_id, room_id, check_in, check_out)
            messagebox.showinfo("Success", "Room booked successfully.")
        else:
            messagebox.showerror("Error", "All fields are required.")

    def check_out(self):
        booking_id = simpledialog.askinteger("Check-Out", "Enter Booking
ID to check out:")

        if booking_id:
            check_out_room(booking_id)
            messagebox.showinfo("Success", f"Checked out booking ID
{booking_id}.")
        else:
            messagebox.showerror("Error", "Booking ID required.")

    def logout(self):
        self.window.destroy()

    def run(self):
        self.window.mainloop()
```

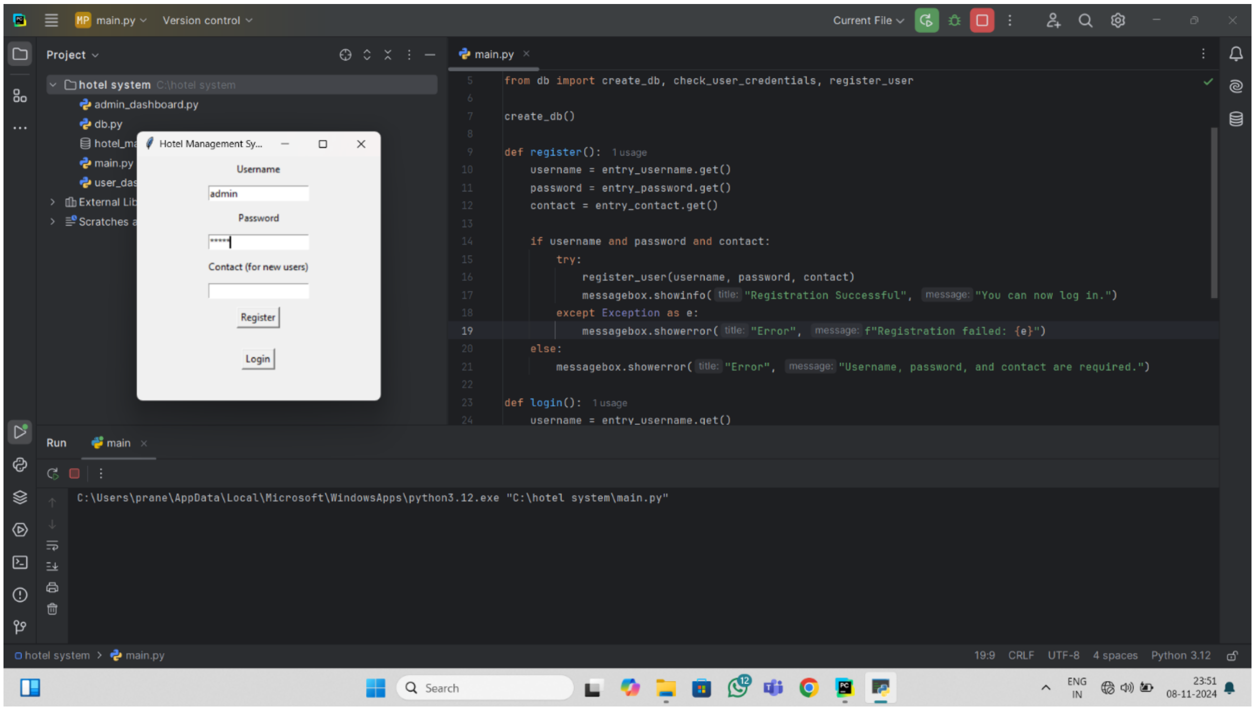
admin_dashboard.py:

```
import tkinter as tk
from tkinter import messagebox, simpledialog
from db import add_room, get_booking_details, check_out_room,
update_room_price

class AdminDashboard:
    def __init__(self):
        self.window = tk.Tk()
        self.window.title("Admin Dashboard")
        self.window.geometry("400x500")

        tk.Button(self.window, text="Add Room",
command=self.add_room).pack(pady=10)
        tk.Button(self.window, text="View All Bookings",
command=self.view_bookings).pack(pady=10)
        tk.Button(self.window, text="Check-Out Guest",
command=self.check_out).pack(pady=10)
        tk.Button(self.window, text="Update Room Price",
command=self.update_price).pack(pady=10)
        tk.Button(self.window, text="Logout",
command=self.logout).pack(pady=10)

    def add_room(self):
        room_number = simpledialog.askstring("Add Room", "Enter Room
Number:")
        room_type = simpledialog.askstring("Add Room", "Enter Room Type
(e.g., Single, Double):")
        amenities = simpledialog.askstring("Add Room", "Enter Amenities
(e.g., TV, WiFi):")
```

```
        price = simpledialog.askfloat("Add Room", "Enter Room Price:")

        if room_number and room_type and price is not None:
            add_room(room_number, room_type, amenities, price)
            messagebox.showinfo("Success", f"Room {room_number} added
successfully.")
        else:
            messagebox.showerror("Error", "All fields are required.")

    def view_bookings(self):
        bookings = get_booking_details()
        booking_info = "\n".join([f"Booking ID {b[0]} - Room {b[2]} -
User: {b[1]} (Check-in: {b[3]}, Check-out: {b[4]})" for b in bookings])
        messagebox.showinfo("All Bookings", booking_info if booking_info
else "No bookings available.")

    def check_out(self):
        booking_id = simpledialog.askinteger("Check-Out", "Enter Booking
ID to check out:")

        if booking_id:
            check_out_room(booking_id)
            messagebox.showinfo("Success", f"Checked out booking ID
{booking_id}.")
        else:
            messagebox.showerror("Error", "Booking ID required.")

    def update_price(self):
        room_number = simpledialog.askstring("Update Room Price", "Enter
Room Number to update:")
        new_price = simpledialog.askfloat("Update Room Price", "Enter new
room price:")

        if room_number and new_price:
            update_room_price(room_number, new_price)
            messagebox.showinfo("Success", f"Room {room_number} price
updated to {new_price}.")
        else:
            messagebox.showerror("Error", "Room number and new price are
required.")

    def logout(self):
        self.window.destroy()

    def run(self):
        self.window.mainloop()
```

OUTPUT:

Admin activities:



Hotel Management Sy...

Username

admin

Password

*****

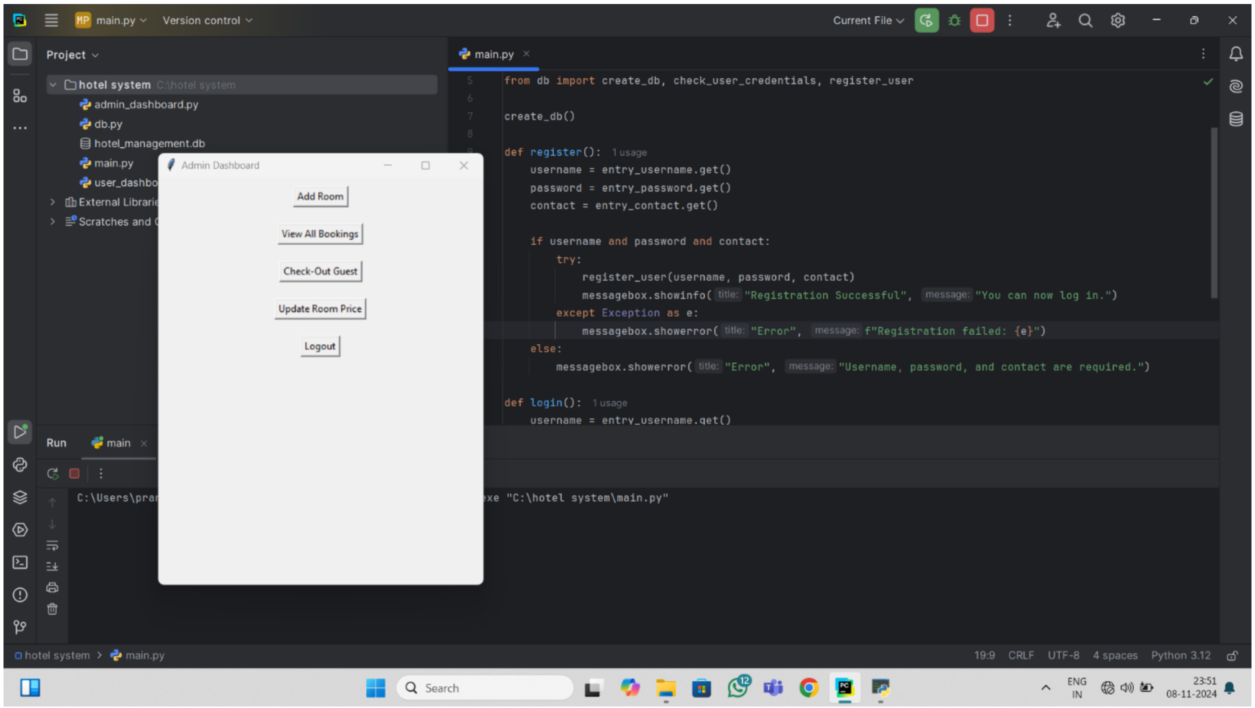
Contact (for new users)

Register

Login

```
from db import create_db, check_user_credentials, register_user

create_db()

def register():
    username = entry_username.get()
    password = entry_password.get()
    contact = entry_contact.get()

    if username and password and contact:
        try:
            register_user(username, password, contact)
            messagebox.showinfo("Registration Successful", "You can now log in.")
        except Exception as e:
            messagebox.showerror("Error", f"Registration failed: {e}")
    else:
        messagebox.showerror("Error", "Username, password, and contact are required.")

def login():
    username = entry_username.get()
```

```
C:\Users\prane\AppData\Local\Microsoft\WindowsApps\python3.12.exe "C:\hotel system\main.py"
```



Admin Dashboard

Add Room

View All Bookings

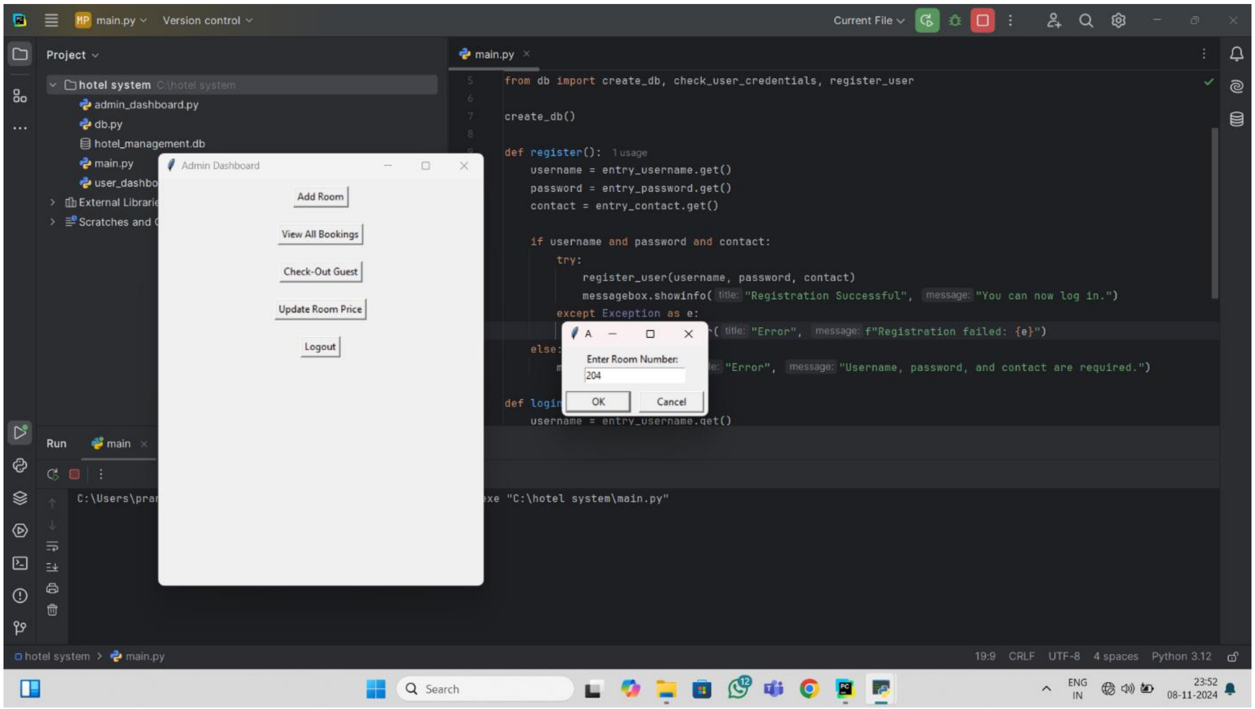
Check-Out Guest

Update Room Price

Logout

```
from db import create_db, check_user_credentials, register_user

create_db()

def register():
    username = entry_username.get()
    password = entry_password.get()
    contact = entry_contact.get()

    if username and password and contact:
        try:
            register_user(username, password, contact)
            messagebox.showinfo("Registration Successful", "You can now log in.")
        except Exception as e:
            messagebox.showerror("Error", f"Registration failed: {e}")
    else:
        messagebox.showerror("Error", "Username, password, and contact are required.")

def login():
    username = entry_username.get()
```

```
C:\Users\pran                         xe "C:\hotel system\main.py"
```

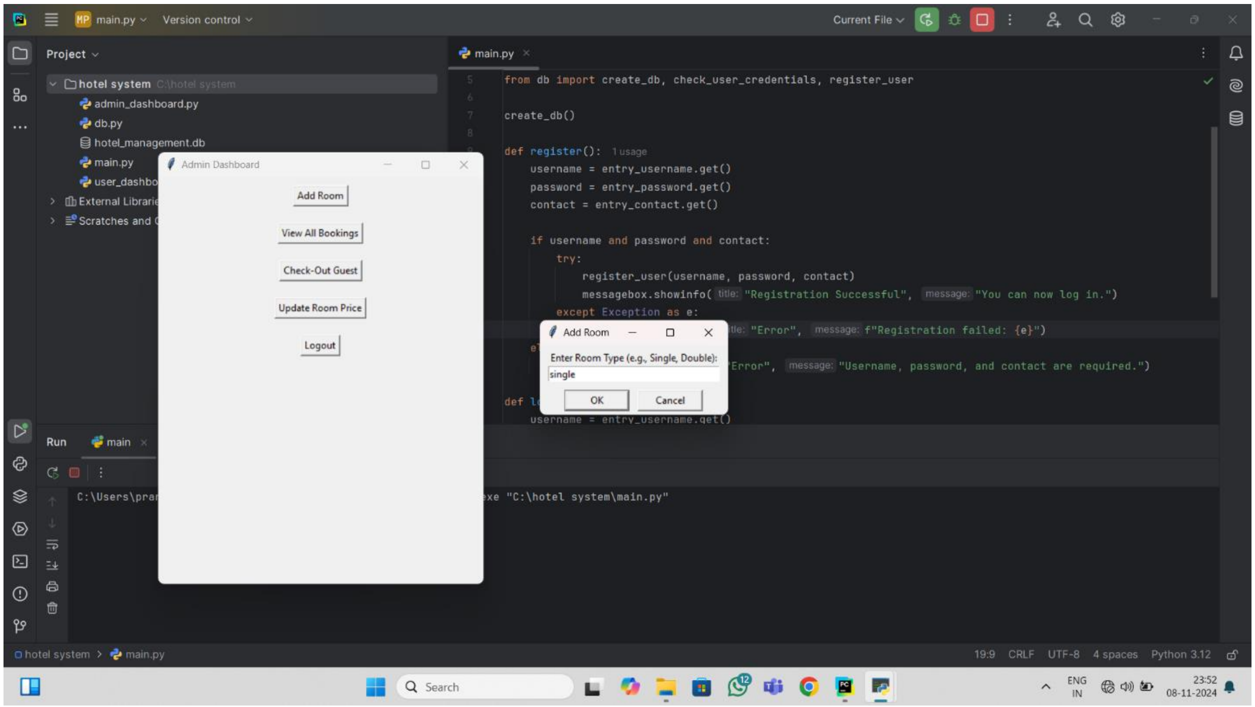


Enter Room Number:

204

```
from db import create_db, check_user_credentials, register_user

create_db()

def register():  1 usage
    username = entry_username.get()
    password = entry_password.get()
    contact = entry_contact.get()

    if username and password and contact:
        try:
            register_user(username, password, contact)
            messagebox.showinfo( title: "Registration Successful",  message: "You can now log in.")
        except Exception as e:
                                 r( title: "Error",  message: f"Registration failed: {e}")
    else:
                                 e: "Error",  message: "Username, password, and contact are required.")

def login
    username = entry_username.get()
```

```
C:\Users\prar                                   xe "C:\hotel system\main.py"
```

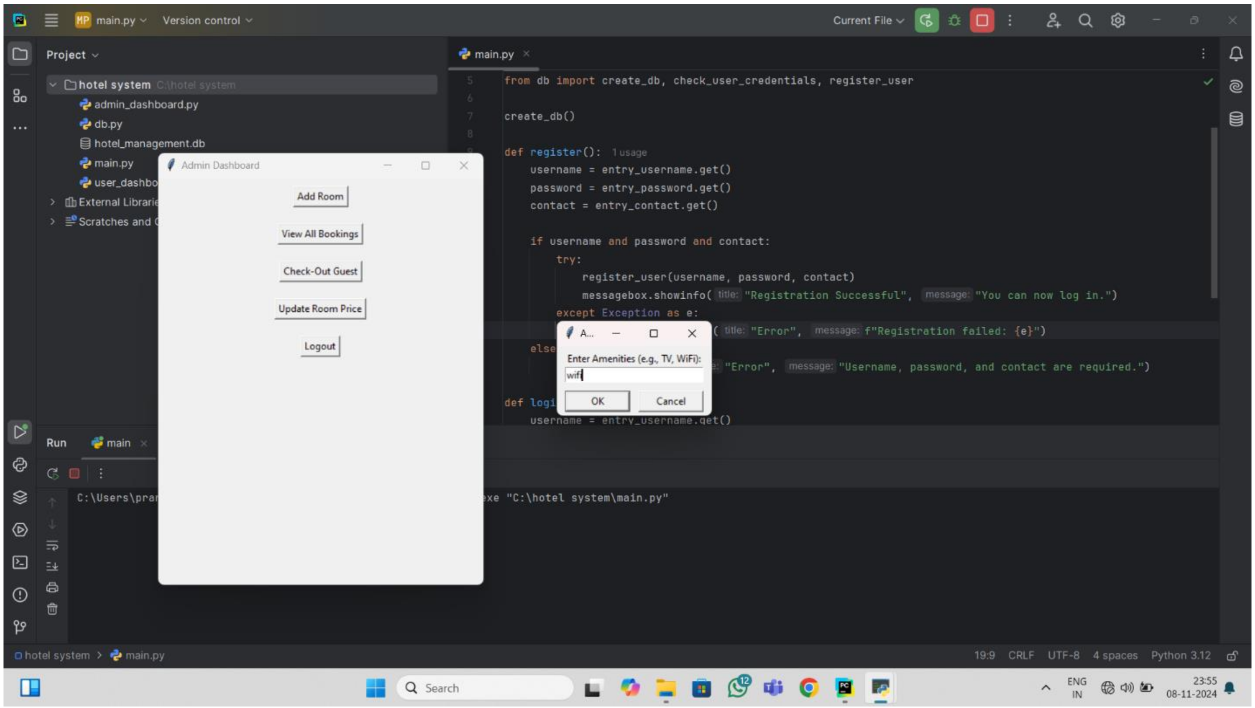


Enter Room Type (e.g., Single, Double):

single

```
from db import create_db, check_user_credentials, register_user

create_db()

def register():  1 usage
    username = entry_username.get()
    password = entry_password.get()
    contact = entry_contact.get()

    if username and password and contact:
        try:
            register_user(username, password, contact)
            messagebox.showinfo( title: "Registration Successful",  message: "You can now log in.")
        except Exception as e:
                                 tle: "Error",  message: f"Registration failed: {e}")
    e
                                 Error",  message: "Username, password, and contact are required.")

def l
    username = entry_username.get()
```

```
C:\Users\prar                                   xe "C:\hotel system\main.py"
```



```
from db import create_db, check_user_credentials, register_user

create_db()

def register():  1 usage
    username = entry_username.get()
    password = entry_password.get()
    contact = entry_contact.get()

    if username and password and contact:
        try:
            register_user(username, password, contact)
            messagebox.showinfo( title: "Registration Successful",  message: "You can now log in.")
        except Exception as e:
                                      ( title: "Error",  message: f"Registration failed: {e}")
    else
                                    "Error",  message: "Username, password, and contact are required.")

def logi
    username = entry_username.get()
```

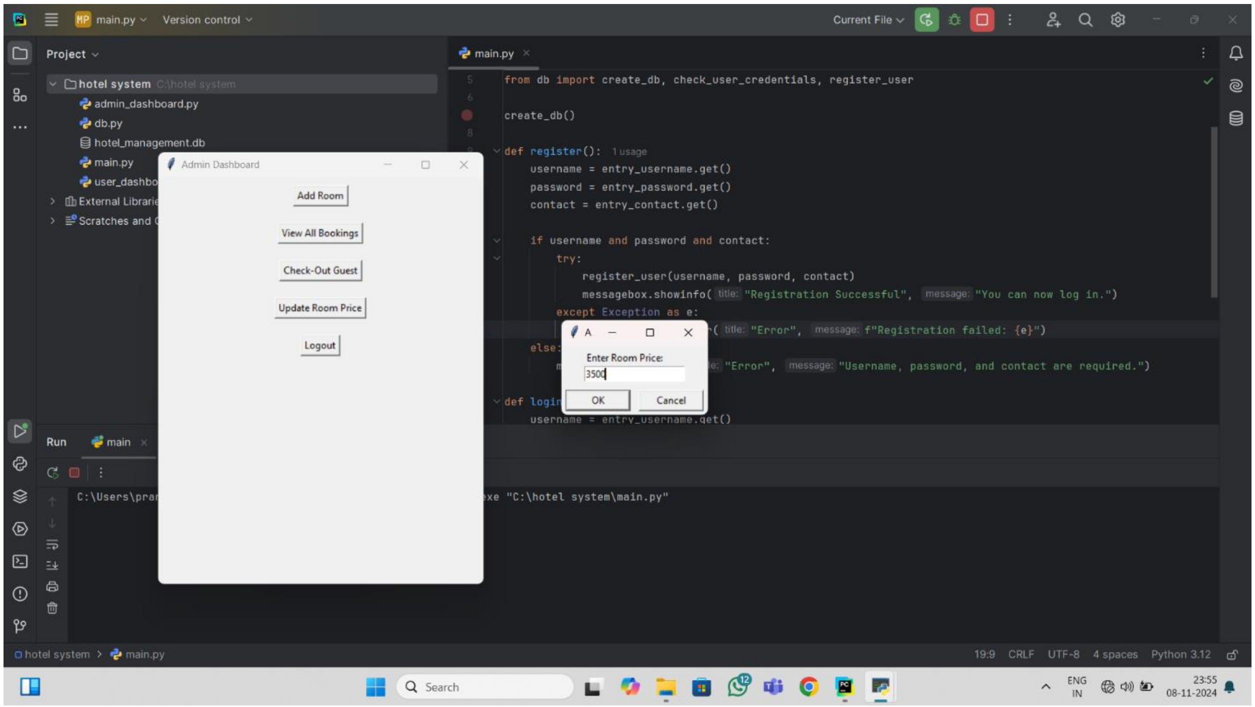
A...

Enter Amenities (e.g., TV, WiFi):

wifi

OK Cancel

```
C:\Users\pra                              xe "C:\hotel system\main.py"
```



```
from db import create_db, check_user_credentials, register_user

create_db()

def register():  1 usage
    username = entry_username.get()
    password = entry_password.get()
    contact = entry_contact.get()

    if username and password and contact:
        try:
            register_user(username, password, contact)
            messagebox.showinfo( title: "Registration Successful",  message: "You can now log in.")
        except Exception as e:
                                      ( title: "Error",  message: f"Registration failed: {e}")
    else:
        m                           e: "Error",  message: "Username, password, and contact are required.")

def login
    username = entry_username.get()
```

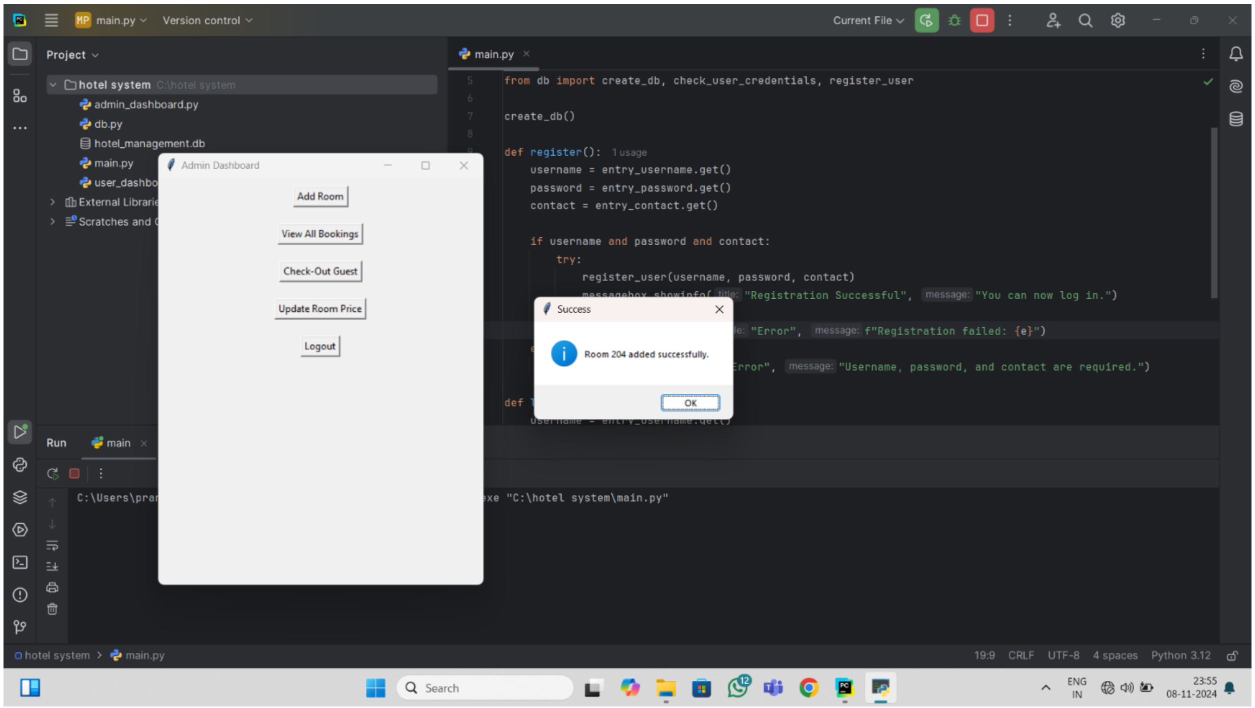
A

Enter Room Price:

3500

OK Cancel

```
C:\Users\pra                              xe "C:\hotel system\main.py"
```



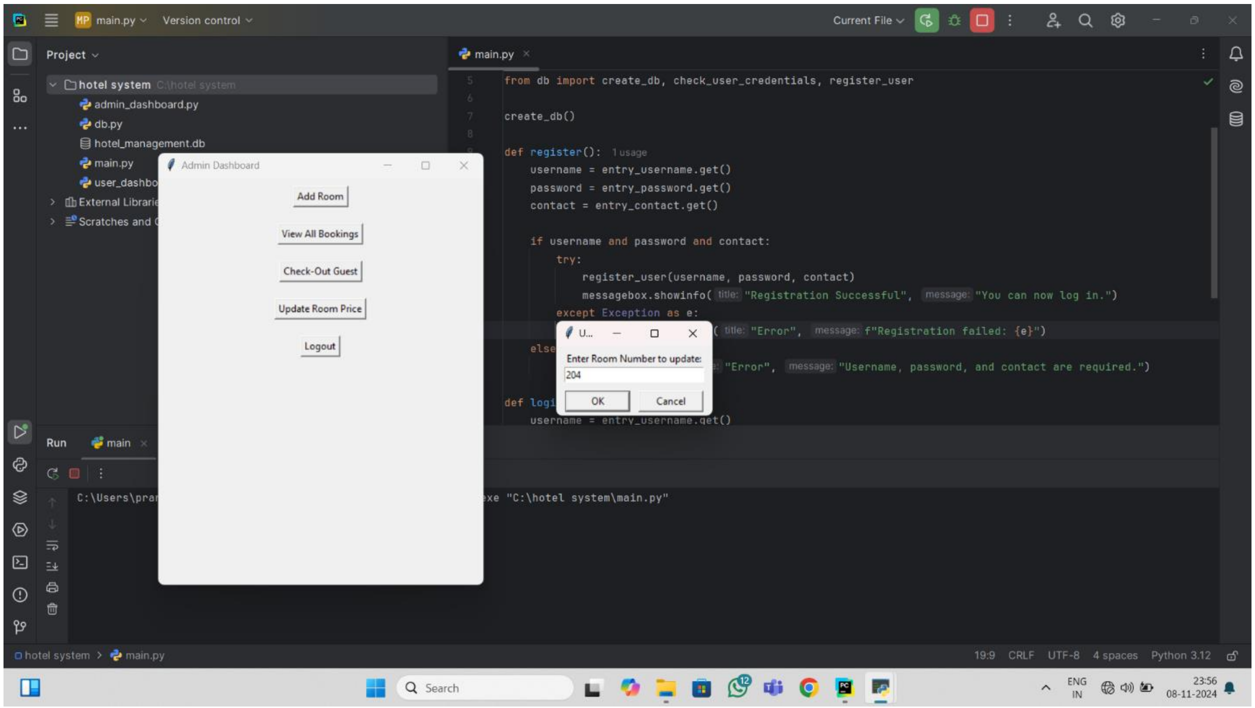
```
from db import create_db, check_user_credentials, register_user

create_db()

def register():  1 usage
    username = entry_username.get()
    password = entry_password.get()
    contact = entry_contact.get()

    if username and password and contact:
        try:
            register_user(username, password, contact)
            messagebox.showinfo( title: "Registration Successful",  message: "You can now log in.")
                                    le: "Error",  message: f"Registration failed: {e}")
                                 rror",  message: "Username, password, and contact are required.")

def l
    username = entry_username.get()
```

Success

Room 204 added successfully.

OK

```
C:\Users\prar                          xe "C:\hotel system\main.py"
```



```
from db import create_db, check_user_credentials, register_user

create_db()

def register():  1 usage
    username = entry_username.get()
    password = entry_password.get()
    contact = entry_contact.get()

    if username and password and contact:
        try:
            register_user(username, password, contact)
            messagebox.showinfo( title: "Registration Successful",  message: "You can now log in.")
        except Exception as e:
                                 ( title: "Error",  message: f"Registration failed: {e}")
    else
                                 : "Error",  message: "Username, password, and contact are required.")

def logi
    username = entry_username.get()
```

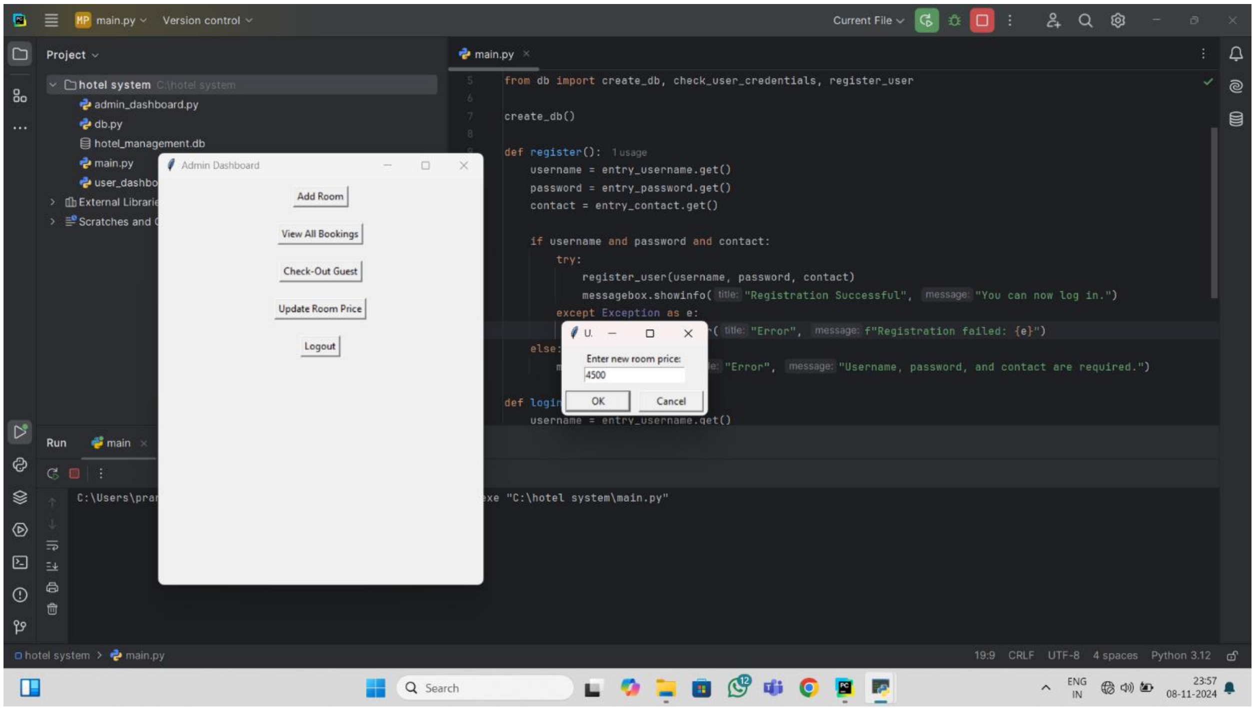
U...

Enter Room Number to update:

204

OK Cancel

```
C:\Users\prar                          xe "C:\hotel system\main.py"
```



```
from db import create_db, check_user_credentials, register_user

create_db()

def register():  1 usage
    username = entry_username.get()
    password = entry_password.get()
    contact = entry_contact.get()

    if username and password and contact:
        try:
            register_user(username, password, contact)
            messagebox.showinfo( title: "Registration Successful",  message: "You can now log in.")
        except Exception as e:
                                   ( title: "Error",  message: f"Registration failed: {e}")
    else:
                                   e: "Error",  message: "Username, password, and contact are required.")

def login
    username = entry_username.get()
```

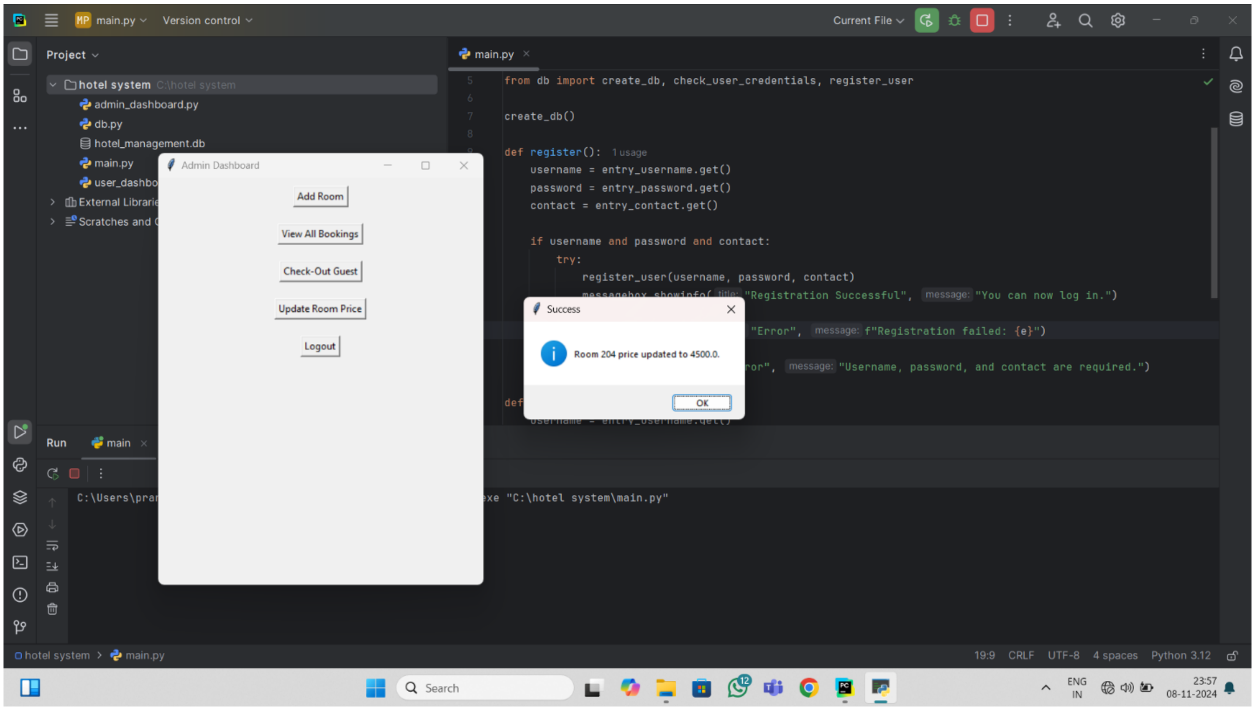
U.

Enter new room price:

4500

OK Cancel

```
C:\Users\prar                                    xe "C:\hotel system\main.py"
```



```
from db import create_db, check_user_credentials, register_user

create_db()

def register():  1 usage
    username = entry_username.get()
    password = entry_password.get()
    contact = entry_contact.get()

    if username and password and contact:
        try:
            register_user(username, password, contact)
            messagebox.showinfo( title: "Registration Successful",  message: "You can now log in.")
                                   "Error",  message: f"Registration failed: {e}")

                                   ror",  message: "Username, password, and contact are required.")

def
    username = entry_username.get()
```

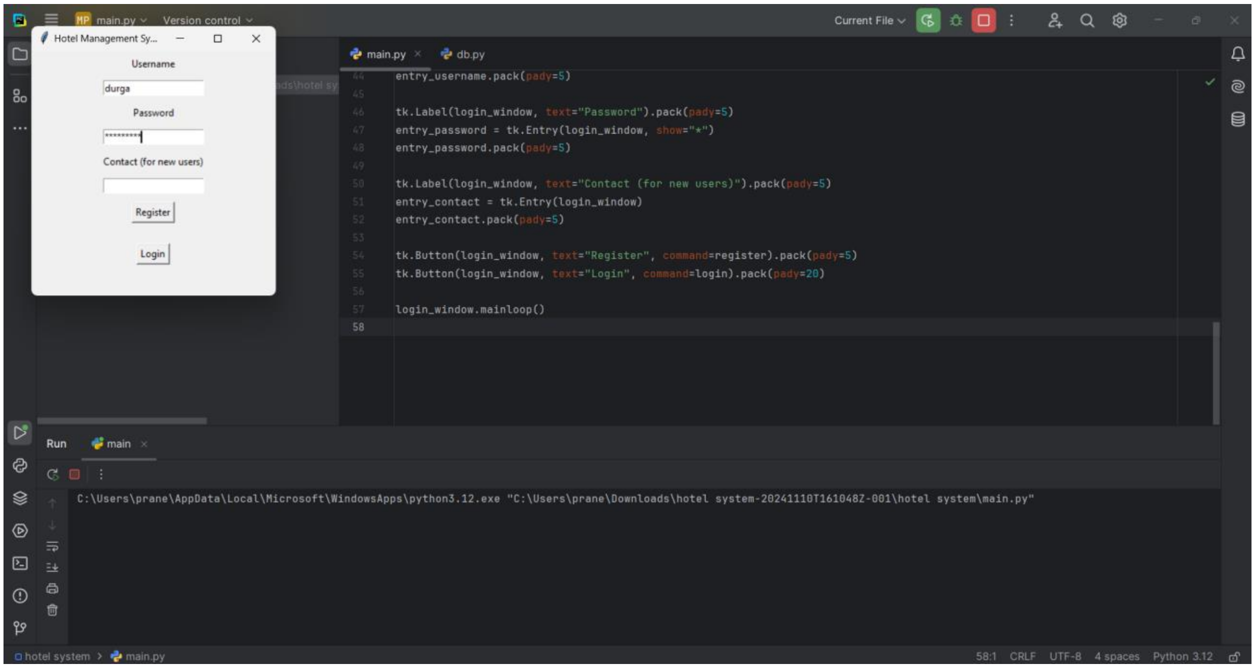
Success

Room 204 price updated to 4500.0.

OK

```
C:\Users\prar                                    xe "C:\hotel system\main.py"
```

User activities:



Username: durga

Password: *********

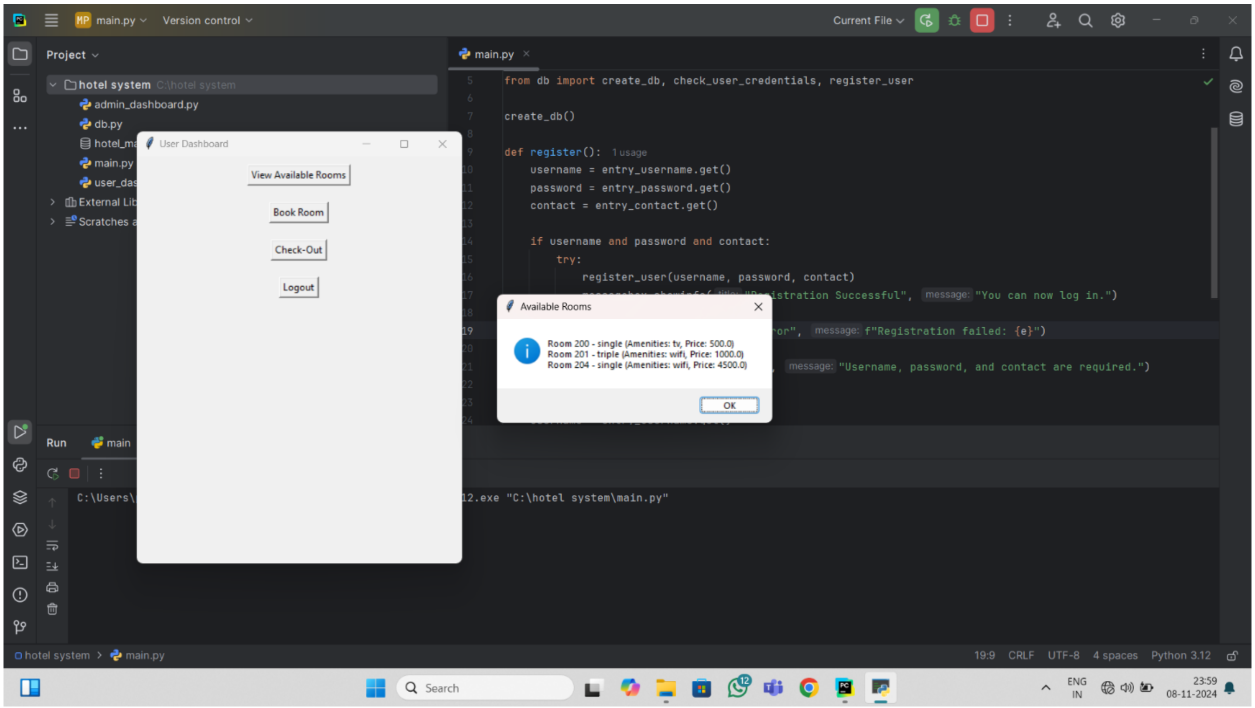
Contact (for new users)

Register

Login

```
entry_username.pack(pady=5)

tk.Label(login_window, text="Password").pack(pady=5)
entry_password = tk.Entry(login_window, show="*")
entry_password.pack(pady=5)

tk.Label(login_window, text="Contact (for new users)").pack(pady=5)
entry_contact = tk.Entry(login_window)
entry_contact.pack(pady=5)

tk.Button(login_window, text="Register", command=register).pack(pady=5)
tk.Button(login_window, text="Login", command=login).pack(pady=20)

login_window.mainloop()
```

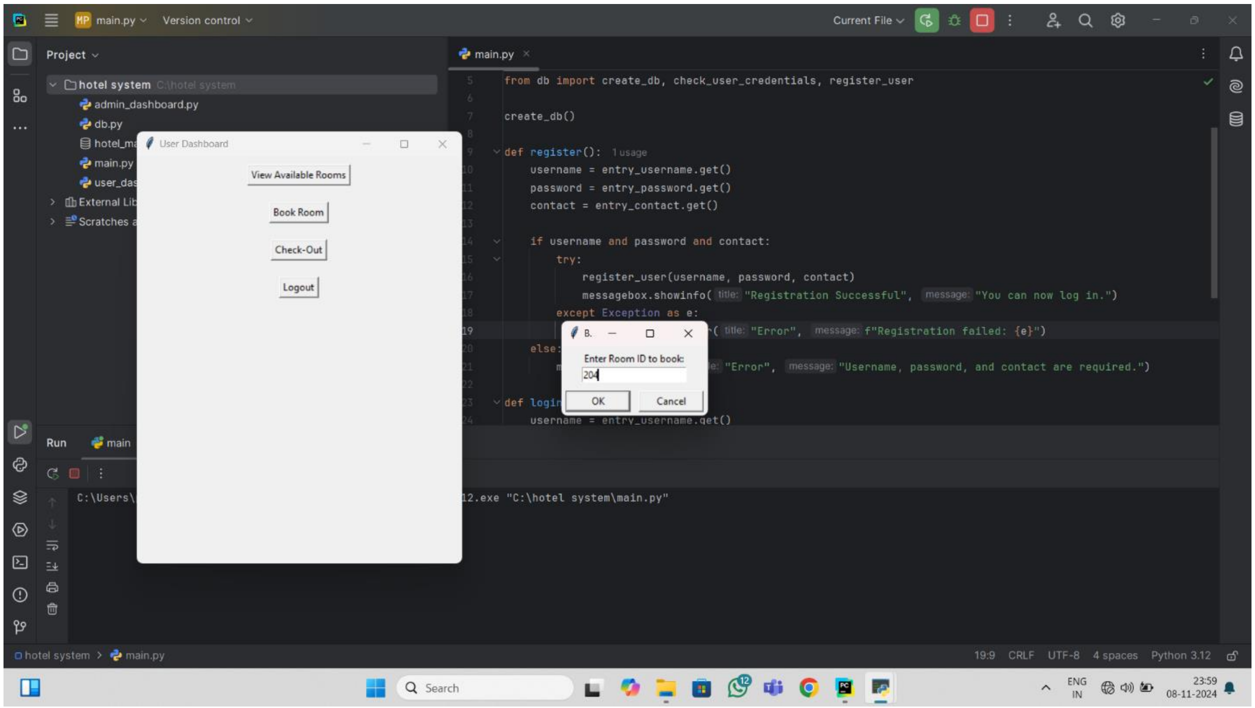
```
C:\Users\prane\AppData\Local\Microsoft\WindowsApps\python3.12.exe "C:\Users\prane\Downloads\hotel system-20241110T161048Z-001\hotel system\main.py"
```



Room 200 - single (Amenities: tv, Price: 500.0)
Room 201 - triple (Amenities: wifi, Price: 1000.0)
Room 204 - single (Amenities: wifi, Price: 4500.0)

```
from db import create_db, check_user_credentials, register_user

create_db()

def register():  1 usage
    username = entry_username.get()
    password = entry_password.get()
    contact = entry_contact.get()

    if username and password and contact:
        try:
            register_user(username, password, contact)
            messagebox.showinfo( title: "Registration Successful",  message: "You can now log in.")
ror",  message: f"Registration failed: {e}")
,  message: "Username, password, and contact are required.")
```

```
C:\Users\
12.exe "C:\hotel system\main.py"
```



```
from db import create_db, check_user_credentials, register_user

create_db()

def register():  1 usage
    username = entry_username.get()
    password = entry_password.get()
    contact = entry_contact.get()

    if username and password and contact:
        try:
            register_user(username, password, contact)
            messagebox.showinfo( title: "Registration Successful",  message: "You can now log in.")
        except Exception as e:
                         ( title: "Error",  message: f"Registration failed: {e}")
    else:
        m               e: "Error",  message: "Username, password, and contact are required.")

def login
    username = entry_username.get()
```

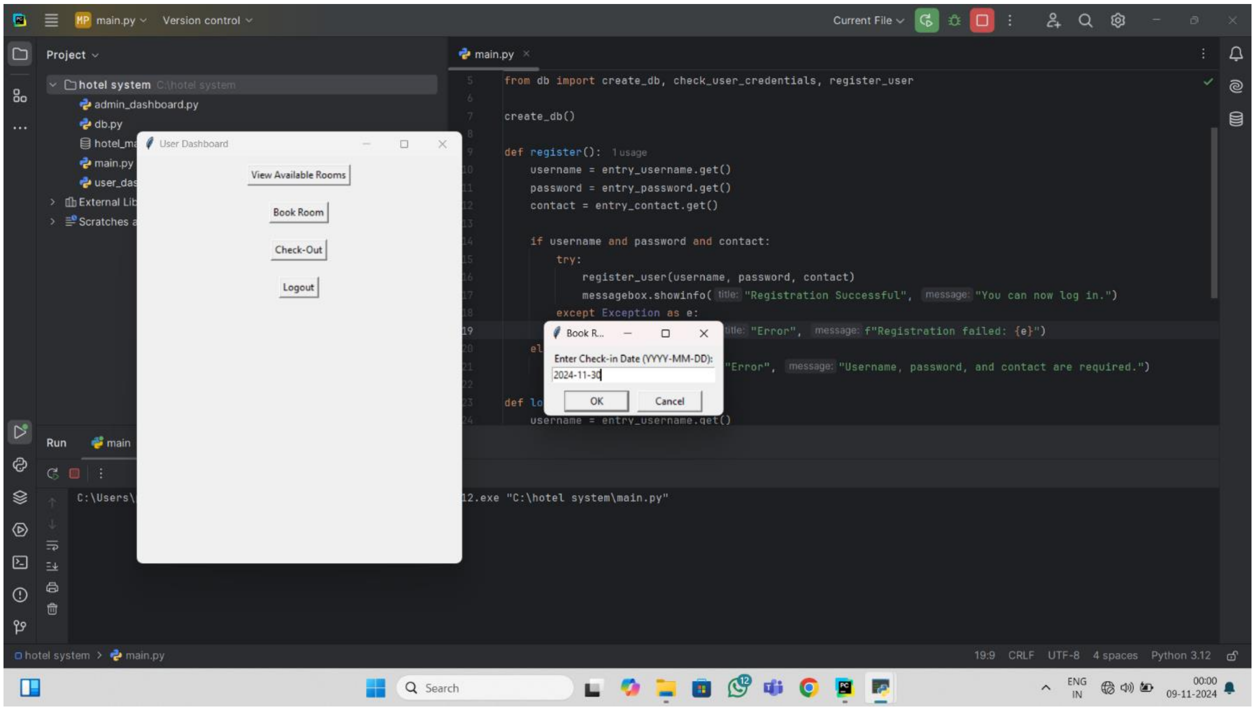
B.

Enter Room ID to book:

204

OK   Cancel

```
C:\Users\                                12.exe "C:\hotel system\main.py"
```



```
from db import create_db, check_user_credentials, register_user

create_db()

def register():  1 usage
    username = entry_username.get()
    password = entry_password.get()
    contact = entry_contact.get()

    if username and password and contact:
        try:
            register_user(username, password, contact)
            messagebox.showinfo( title: "Registration Successful",  message: "You can now log in.")
        except Exception as e:
                        itle: "Error",  message: f"Registration failed: {e}")
    el
                         "Error",  message: "Username, password, and contact are required.")

def lo
    username = entry_username.get()
```

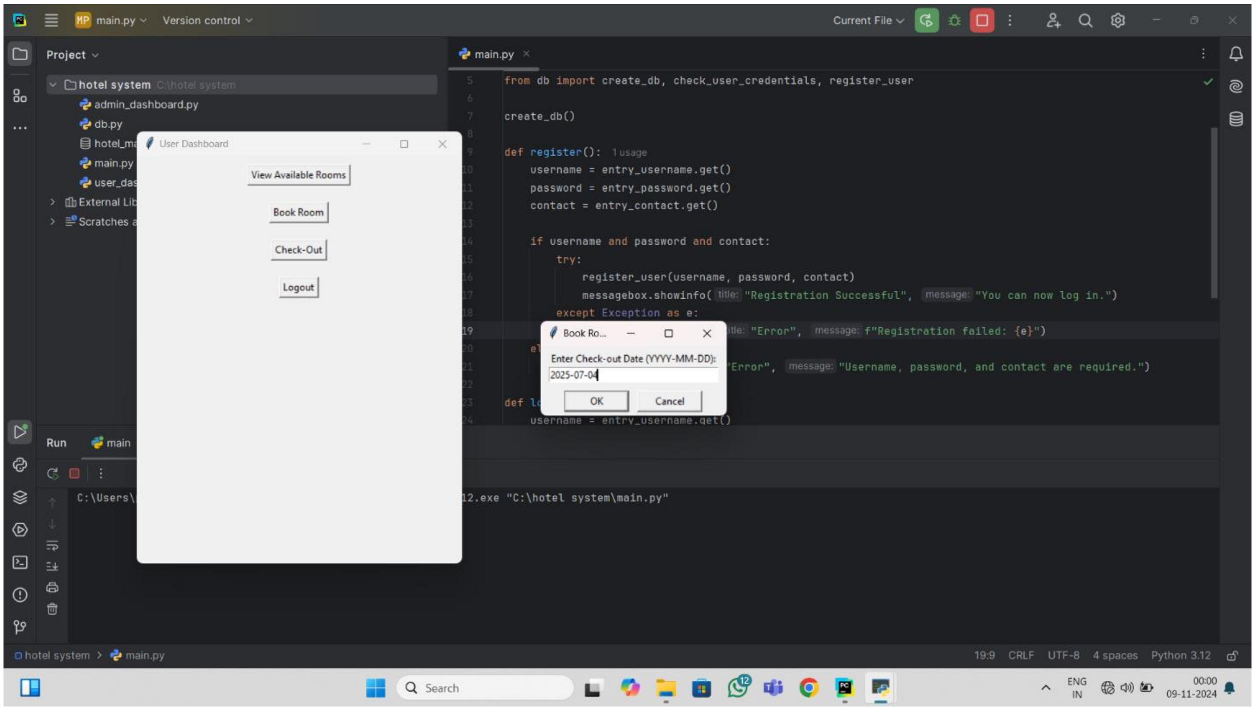
Book R...

Enter Check-in Date (YYYY-MM-DD):

2024-11-30

OK   Cancel

```
C:\Users\                                12.exe "C:\hotel system\main.py"
```



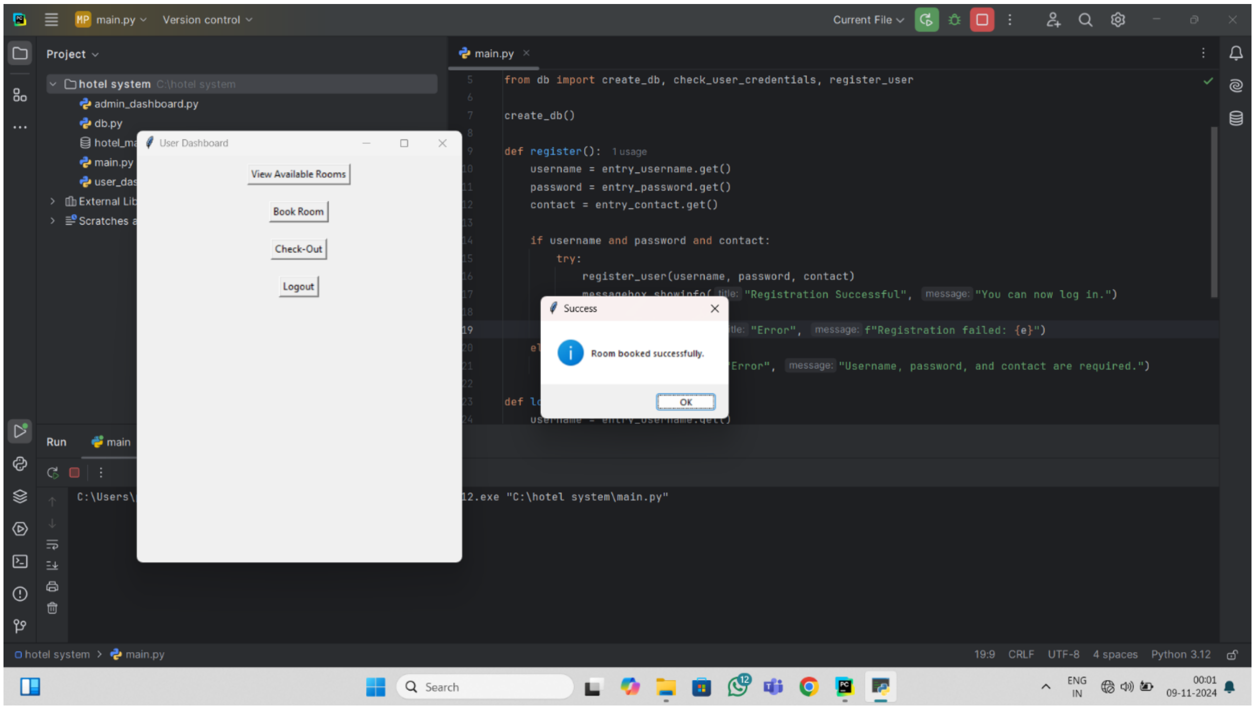
```
from db import create_db, check_user_credentials, register_user

create_db()

def register():  1 usage
    username = entry_username.get()
    password = entry_password.get()
    contact = entry_contact.get()

    if username and password and contact:
        try:
            register_user(username, password, contact)
            messagebox.showinfo( title: "Registration Successful",  message: "You can now log in.")
        except Exception as e:
                                  tle: "Error",  message: f"Registration failed: {e}")
    el
                                  "Error",  message: "Username, password, and contact are required.")

def lo
    username = entry_username.get()
```

```
C:\Users\                                          12.exe "C:\hotel system\main.py"
```

Book Ro...

Enter Check-out Date (YYYY-MM-DD):

2025-07-04

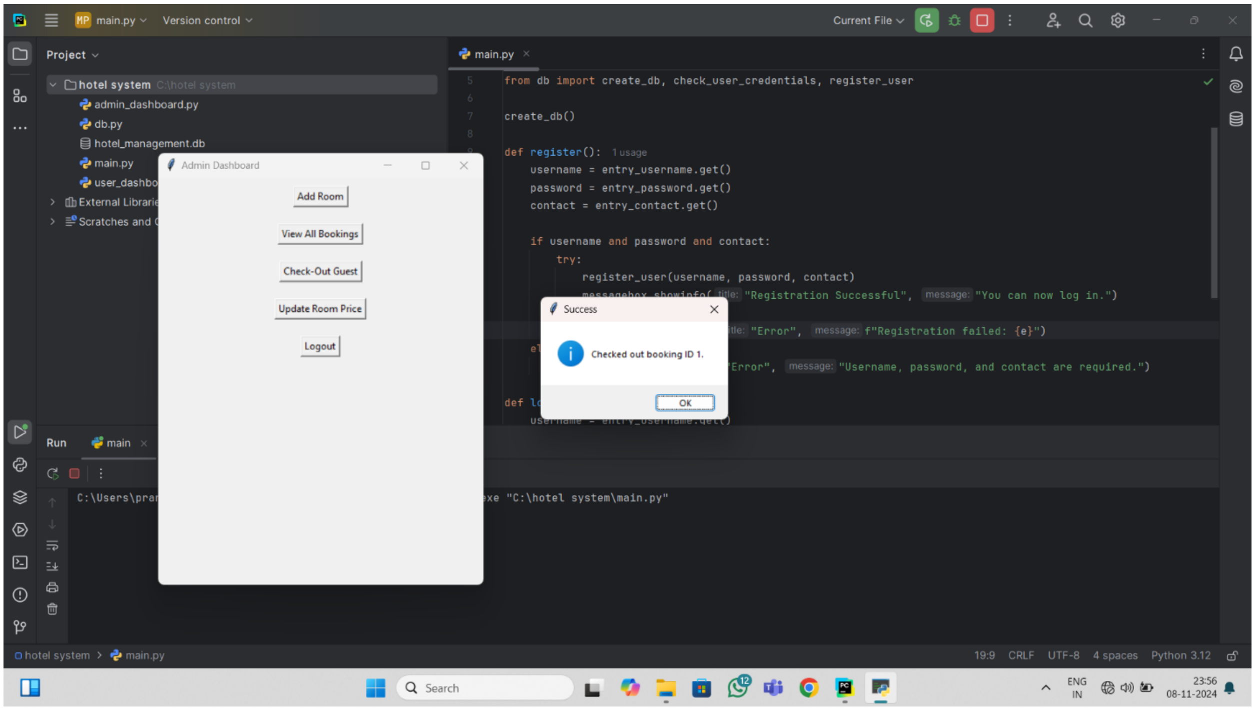


```
from db import create_db, check_user_credentials, register_user

create_db()

def register():  1 usage
    username = entry_username.get()
    password = entry_password.get()
    contact = entry_contact.get()

    if username and password and contact:
        try:
            register_user(username, password, contact)
            messagebox.showinfo( title: "Registration Successful",  message: "You can now log in.")
                                  tle: "Error",  message: f"Registration failed: {e}")
    el
                                  "Error",  message: "Username, password, and contact are required.")

def lo
    username = entry_username.get()
```

```
C:\Users\                                          12.exe "C:\hotel system\main.py"
```

Success

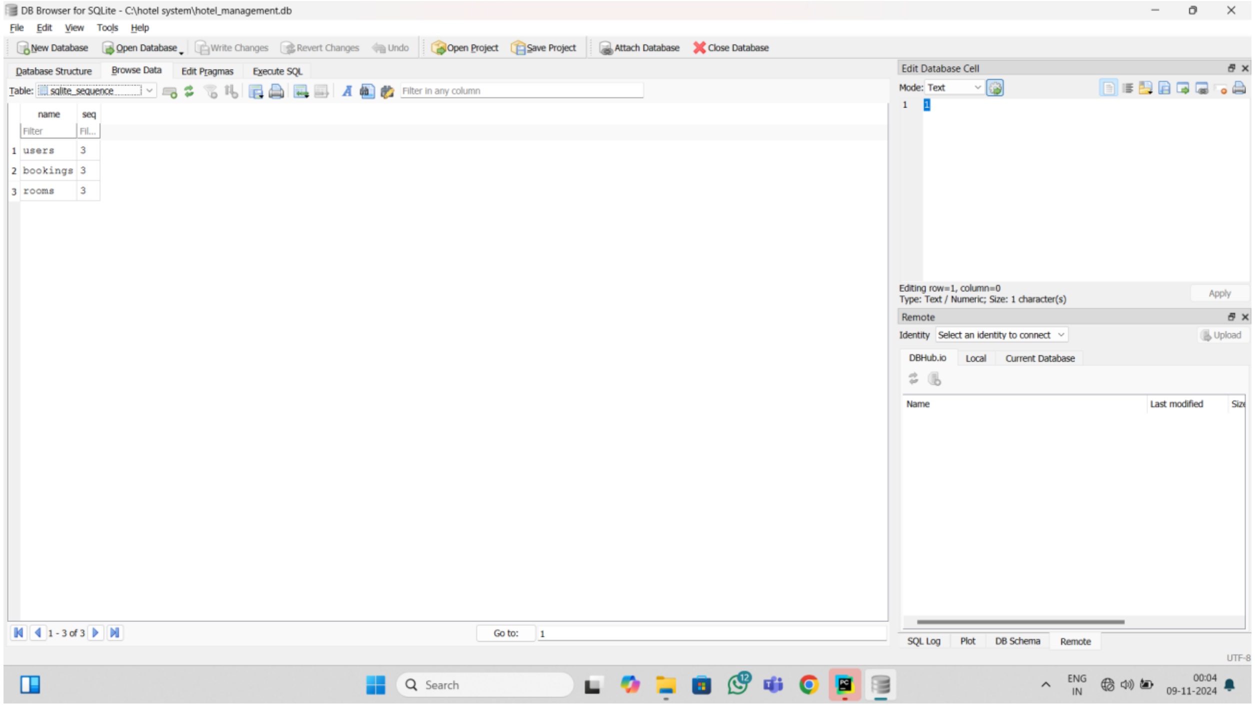
Room booked successfully.



```
from db import create_db, check_user_credentials, register_user

create_db()

def register():  1 usage
    username = entry_username.get()
    password = entry_password.get()
    contact = entry_contact.get()

    if username and password and contact:
        try:
            register_user(username, password, contact)
            messagebox.showinfo( title: "Registration Successful",  message: "You can now log in.")
                              tle: "Error",  message: f"Registration failed: {e}")
    el
                              "Error",  message: "Username, password, and contact are required.")

def lo
    username = entry_username.get()
```

Checked out booking ID 1.

```
C:\Users\prar                                        exe "C:\hotel system\main.py"
```



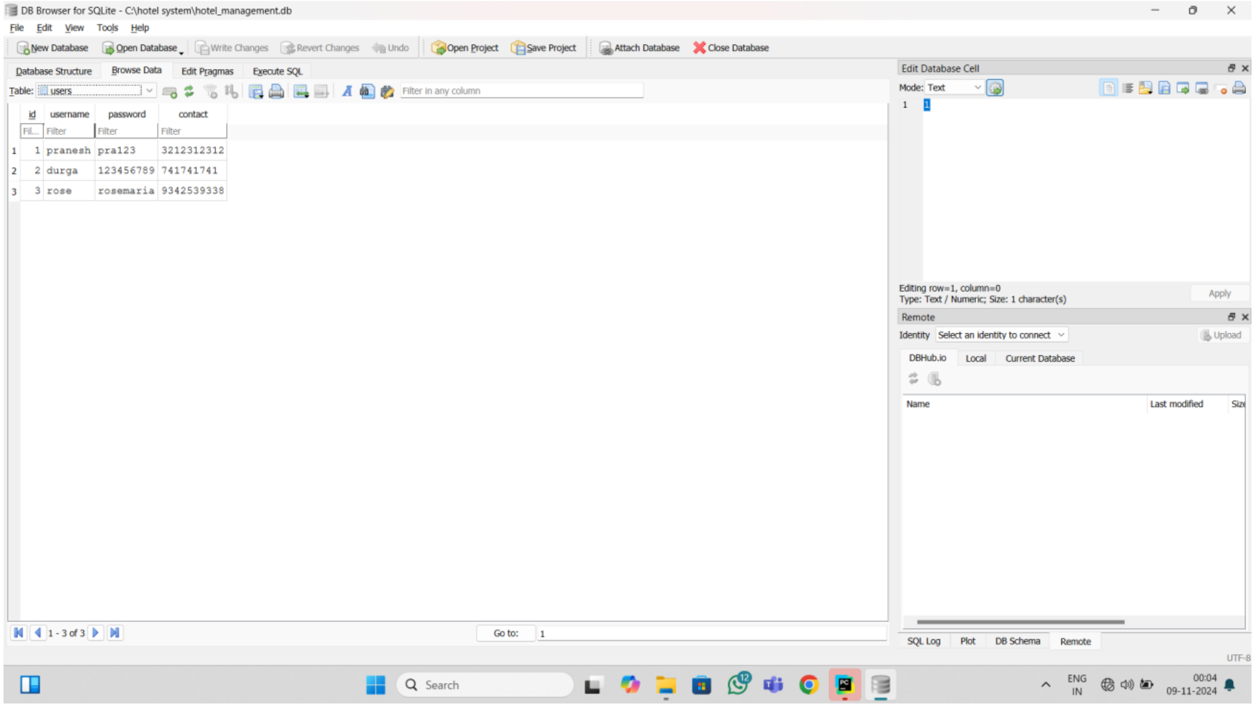
DB Browser for SQLite - C:\hotel system\hotel_management.db

Table: sqlite_sequence

	name	seq
1	users	3
2	bookings	3
3	rooms	3

1 - 3 of 3

Editing row=1, column=0
Type: Text / Numeric; Size: 1 character(s)



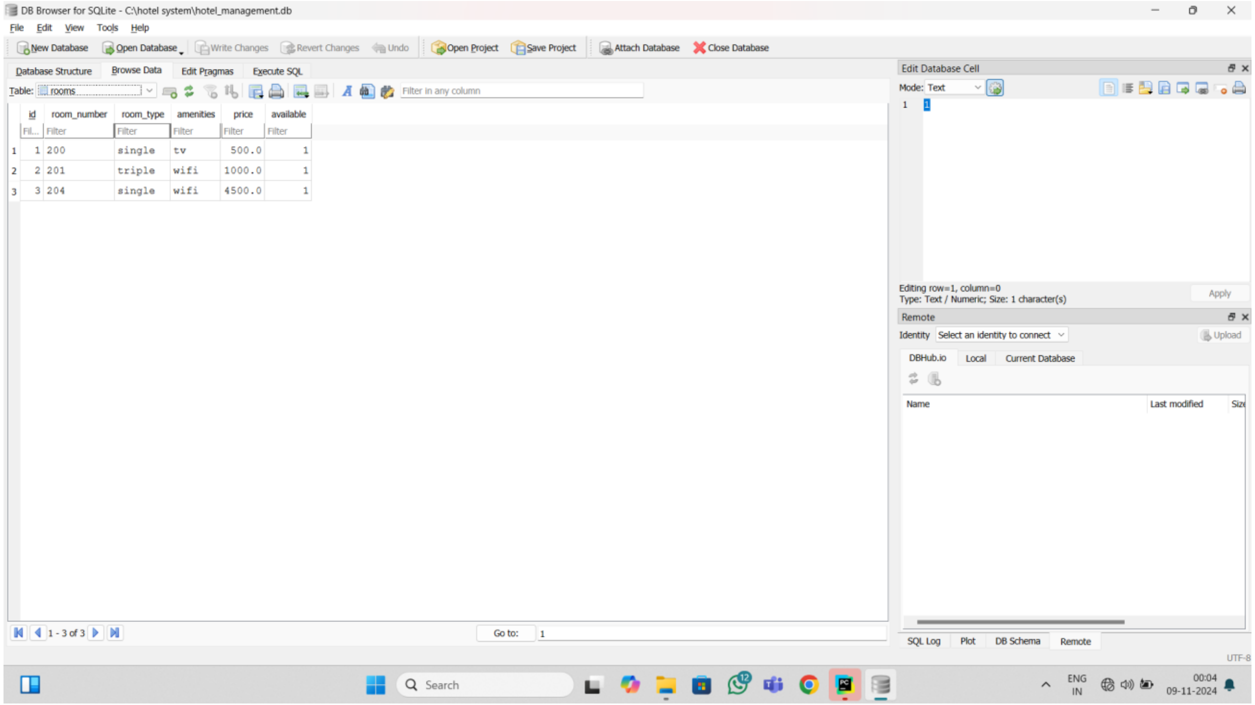
DB Browser for SQLite - C:\hotel system\hotel_management.db

Table: users

	id	username	password	contact
1	1	pranesh	pra123	3212312312
2	2	durga	123456789	741741741
3	3	rose	rosemaria	9342539338

1 - 3 of 3

Editing row=1, column=0
Type: Text / Numeric; Size: 1 character(s)



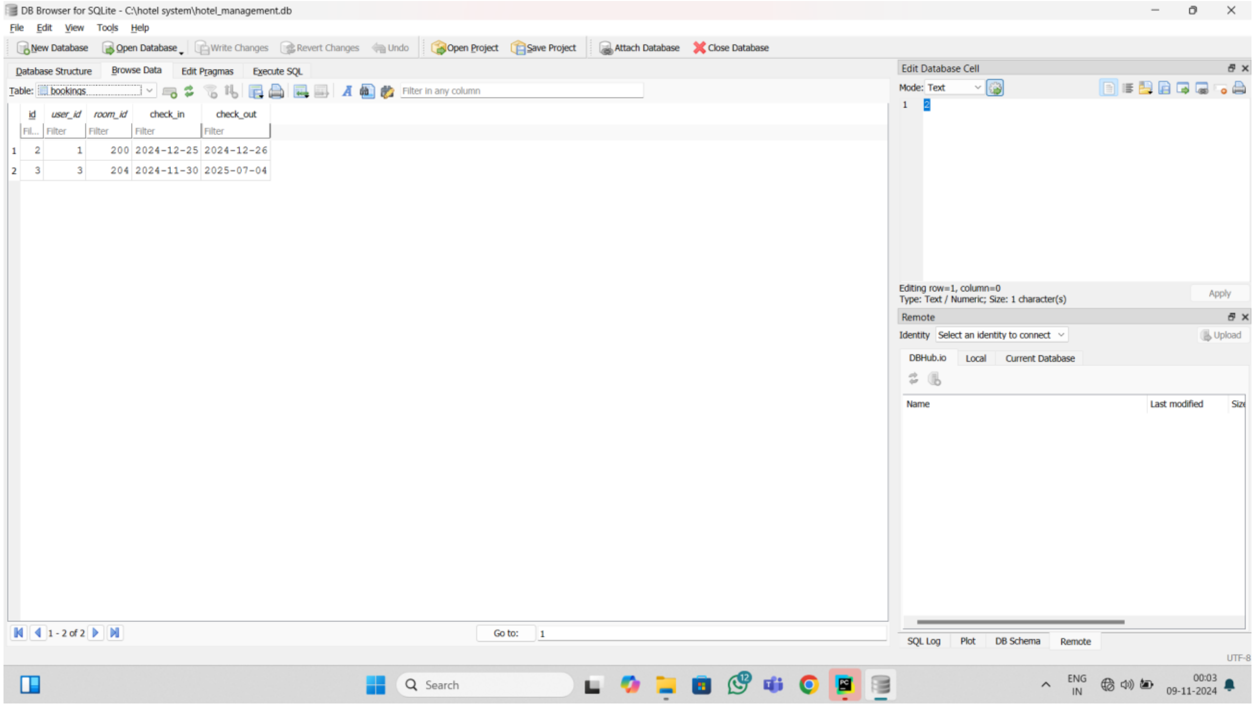
DB Browser for SQLite - C:\hotel system\hotel_management.db

Table: rooms

	id	room_number	room_type	amenities	price	available
1	1	200	single	tv	500.0	1
2	2	201	triple	wifi	1000.0	1
3	3	204	single	wifi	4500.0	1

1 - 3 of 3

Editing row=1, column=0
Type: Text / Numeric; Size: 1 character(s)



DB Browser for SQLite - C:\hotel system\hotel_management.db

Table: bookings

	id	user_id	room_id	check_in	check_out
1	2	1	200	2024-12-25	2024-12-26
2	3	3	204	2024-11-30	2025-07-04

1 - 2 of 2

Editing row=1, column=0
Type: Text / Numeric; Size: 1 character(s)