

Note: Please pay attention to something

1. Install these two modules before running the code “tkinter”, and “pyodbc”.
2. Change the server name in each code to the name of the current server

User Manual

landlord instruction

Landlord interface function description

1. View information and rooms:

Enter LandlordID.

Click the View Info button.

The system will display personal information, and the room provided.

The screenshot shows a window titled 'Landlord Management System'. It contains a form with labels for Landlord ID, Landlord Name, Email, Phone Number, Room ID, Room No, and Price. The Landlord ID field contains 'L001'. Below the form are buttons for View Info, Add Room, Update Room, View Income, Update Info, Delete Room, and View Reservations. The View Info button is highlighted. Below the form, the system displays the following information:

Landlord Information:
ID: L001
Name: landlord01
Email: landlord01@gmail.com
Phone Number: 123456789

Provided Rooms:
Room ID: R001, Room No: 101, Price: 500
Room ID: R002, Room No: 102, Price: 600
Room ID: R007, Room No: 303, Price: 550

2. Update Personal information:

Enter LandlordID.

Enter a new name, email address, and phone number.

Click the Update Info button.

The screenshot shows the same window as before, but with the following changes: the Landlord Name field contains 'newName', the Email field contains 'newName@email.com', and the Phone Number field contains '12345678'. The Update Info button is now highlighted. The Landlord Information section at the bottom now displays the updated information:

Landlord Information:
ID: L001
Name: newName
Email: newName@email.com
Phone Number: 12345678

3. Add a new room:

Enter the RoomID, RoomNo, and price.

Click the Add Room button.

Landlord ID	L001
Landlord Name	
Email	
Phone Number	
Room ID	R009
Room No	101
Price	600
View Info	Update Info
Add Room	Delete Room
Update Room	View Reservations
View Income	

Landlord Information:
ID: L001
Name: newName
Email: newName@email.com
Phone Number: 12345678

Provided Rooms:
Room ID: R001, Room No: 101, Price: 500
Room ID: R002, Room No: 102, Price: 600
Room ID: R007, Room No: 303, Price: 550
Room ID: R009, Room No: 101, Price: 600

4. Delete room:

Enter the RoomID you want to delete.

Click the Delete Room button.

Landlord ID	L001
Landlord Name	
Email	
Phone Number	
Room ID	R009
Room No	101
Price	600
View Info	Update Info
Add Room	Delete Room
Update Room	View Reservations
View Income	

Landlord Information:
ID: L001
Name: newName
Email: newName@email.com
Phone Number: 12345678

Provided Rooms:
Room ID: R001, Room No: 101, Price: 500
Room ID: R002, Room No: 102, Price: 600
Room ID: R007, Room No: 303, Price: 550

5. Update room information:

Enter the RoomID to change the room number (RoomNo) or the price.

Click the Update Room button.

Landlord ID	L001
Landlord Name	
Email	
Phone Number	
Room ID	R001
Room No	102
Price	550
View Info	Update Info
Add Room	Delete Room
Update Room	View Reservations
View Income	

Landlord Information:
ID: L001
Name: newName
Email: newName@email.com
Phone Number: 12345678

Provided Rooms:
Room ID: R001, Room No: 102, Price: 550
Room ID: R002, Room No: 102, Price: 600
Room ID: R007, Room No: 303, Price: 550

6. View all booking history:

Enter LandlordID.

Click the View Reservations button.

Landlord ID	L001
Landlord Name	
Email	
Phone Number	
Room ID	
Room No	
Price	
View Info	Update Info
Add Room	Delete Room
Update Room	View Reservations
View Income	

Reservation Records:
Reservation ID: RES001, Room ID: R001, Guest ID: G001, Date: 1-1-2025, Payment Status: Completed
Reservation ID: RES002, Room ID: R002, Guest ID: G002, Date: 2-1-2025, Payment Status: Pending

7. View room revenue

Enter LandlordID.

Click the View Income button.

Landlord ID	L001
Landlord Name	
Email	
Phone Number	
Room ID	
Room No	
Price	
View Info	Update Info
Add Room	Delete Room
Update Room	View Reservations
View Income	

Total Income for Landlord L001: 550

Guest instruction

Guest interface functions description

1. View information and booking history:

Enter GuestID.

Click the View Info button.

Guest ID: G001

Guest Name:

Email:

Phone Number:

Room ID:

Landlord ID:

Reservation ID:

View Info Update Info

View Unreserved Rooms Reserve Room

Cancel Reservation

Visitor Information:
D: G001
Name: guest01
Email: newguest01@gmail.com
Phone Number: 987654321

Reserved Rooms:
Reservation ID: RES001, Room ID: R001, Room No: 102, Price: 550, Date: 1-1-2025, Payment Status: Completed
Reservation ID: RES004, Room ID: R004, Room No: 202, Price: 650, Date: 1-1-2025, Payment Status: Completed

2. Update information:

Enter GuestID.

Enter a new name, email address, and phone number.

Click the Update Info button.

3. View unreserved rooms:

Click the View Unreserved Rooms button.

Guest ID: G001

Guest Name:

Email:

Phone Number:

Room ID:

Landlord ID:

Reservation ID:

View Info Update Info

View Unreserved Rooms Reserve Room

Cancel Reservation

Unreserved Rooms:

Room ID	Room No	Price	Landlord ID
R005	301	700	L003
R006	302	750	L003
R007	303	550	L001

4. To book a room

Enter the RoomID and LandlordID.

Click the Reserve Room button.

Guest ID	G001
Guest Name	
Email	
Phone Number	
Room ID	R007
Landlord ID	L001
Reservation ID	
View Info	Update Info
View Unreserved Rooms	Reserve Room
Cancel Reservation	

Visitor Information:
 ID: G001
 Name: guest01
 Email: newguest01@gmail.com
 Phone Number: 987654321

Reserved Rooms:
 Reservation ID: RES001, Room ID: R001, Room No: 102, Price: 550, Date: 1-1-2025, Payment Status: Completed
 Reservation ID: RES004, Room ID: R004, Room No: 202, Price: 650, Date: 1-1-2025, Payment Status: Completed
 Reservation ID: ResR007, Room ID: R007, Room No: 303, Price: 550, Date: 01 7 2025 5:52PM, Payment Status: Pending

5. Cancellation:

Enter ReservationID.

Click the Cancel Reservation button.

Guest ID	G001
Guest Name	
Email	
Phone Number	
Room ID	
Landlord ID	
Reservation ID	ResR007
View Info	Update Info
View Unreserved Rooms	Reserve Room
Cancel Reservation	

Visitor Information:
 ID: G001
 Name: guest01
 Email: newguest01@gmail.com
 Phone Number: 987654321

Reserved Rooms:
 Reservation ID: RES001, Room ID: R001, Room No: 102, Price: 550, Date: 1-1-2025, Payment Status: Completed
 Reservation ID: RES004, Room ID: R004, Room No: 202, Price: 650, Date: 1-1-2025, Payment Status: Completed

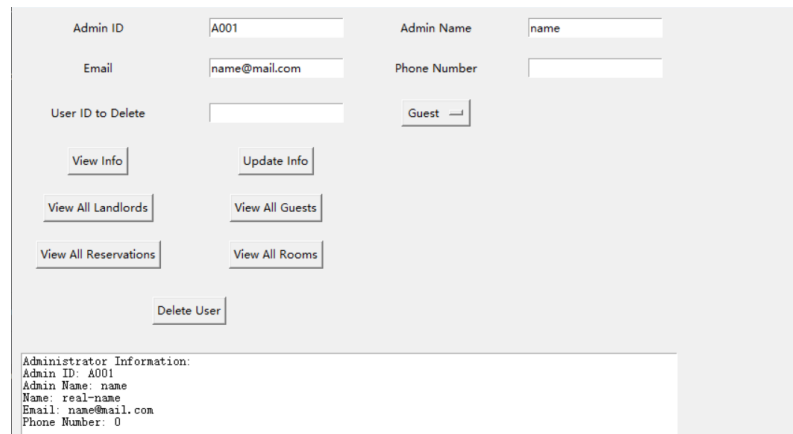
Admin instruction

administrator interface function description

1. Update Administrator information:

Enter the administrator's ID, name, email address, and phone number.

Click the Update Info button.



The screenshot shows a web form for updating administrator information. It contains several input fields: 'Admin ID' (with 'A001' entered), 'Admin Name' (with 'name' entered), 'Email' (with 'name@mail.com' entered), and 'Phone Number'. There is also a 'User ID to Delete' field and a 'Guest' dropdown menu. Below the input fields are several buttons: 'View Info', 'Update Info', 'View All Landlords', 'View All Guests', 'View All Reservations', 'View All Rooms', and 'Delete User'. At the bottom, there is a section titled 'Administrator Information:' displaying the current values: Admin ID: A001, Admin Name: name, Name: real-name, Email: name@mail.com, and Phone Number: 0.

Admin ID	A001	Admin Name	name
Email	name@mail.com	Phone Number	
User ID to Delete		Guest	↓

[View Info](#) [Update Info](#)

[View All Landlords](#) [View All Guests](#)

[View All Reservations](#) [View All Rooms](#)

[Delete User](#)

Administrator Information:
Admin ID: A001
Admin Name: name
Name: real-name
Email: name@mail.com
Phone Number: 0

2. View all hosts:

Click View All Landlords.

```
All Landlords:
Landlord ID: L001, Name: newName, Email: newName@email.com, Phone: 12345678
Landlord ID: L002, Name: landlord02, Email: landlord02@gmail.com, Phone: 876543210
Landlord ID: L003, Name: landlord03, Email: landlord03@gmail.com, Phone: 765432109
Landlord ID: L004, Name: landlord04, Email: landlord04@gmail.com, Phone: 147258369
```

3. Click to View All Guests.

```
All Guests:
Guest ID: G001, Name: guest01, Email: newguest01@gmail.com, Phone: 987654321
Guest ID: G002, Name: guest02, Email: guest02@gmail.com, Phone: 987654321
Guest ID: G003, Name: guest03, Email: guest03@gmail.com, Phone: 876543210
```

4. Click on View All Reservations.

```
All Reservations:
Reservation ID: RES001, Landlord ID: L001, Guest ID: G001, Room ID: R001, Date: 1-1-2025, Status: Completed
Reservation ID: RES002, Landlord ID: L001, Guest ID: G002, Room ID: R002, Date: 2-1-2025, Status: Pending
Reservation ID: RES003, Landlord ID: L002, Guest ID: G003, Room ID: R003, Date: 1-1-2025, Status: Completed
Reservation ID: RES004, Landlord ID: L002, Guest ID: G001, Room ID: R004, Date: 1-1-2025, Status: Completed
```

5. Click View All Rooms.

```
All Rooms:
Room ID: R001, Landlord ID: L001, Room No: 102, Price: 550
Room ID: R002, Landlord ID: L001, Room No: 102, Price: 600
Room ID: R003, Landlord ID: L002, Room No: 201, Price: 550
Room ID: R004, Landlord ID: L002, Room No: 202, Price: 650
Room ID: R005, Landlord ID: L003, Room No: 301, Price: 700
Room ID: R006, Landlord ID: L003, Room No: 302, Price: 750
Room ID: R007, Landlord ID: L001, Room No: 303, Price: 550
```

6. Delete a user:

Enter the ID of the user (which can be the ID of the landlord or guest).

Select the user type as Landlord or Guest.

Click the Delete User button.

User ID to Delete: User Type: Landlord

```
All Landlords:
Landlord ID: L001, Name: newName, Email: newName@email.com, Phone: 12345678
Landlord ID: L002, Name: landlord02, Email: landlord02@gmail.com, Phone: 876543210
Landlord ID: L003, Name: landlord03, Email: landlord03@gmail.com, Phone: 765432109
```