

# HOTEL, RESIDENCE AND MESS MANAGEMENT

Detail Design Document

Presented By:

Md. Hadiuzzaman Bappy (160219)  
Anam Islam (160222)

## ER Diagram:

The ER diagram of “Hotel, Residence and Mess Management” are given below.

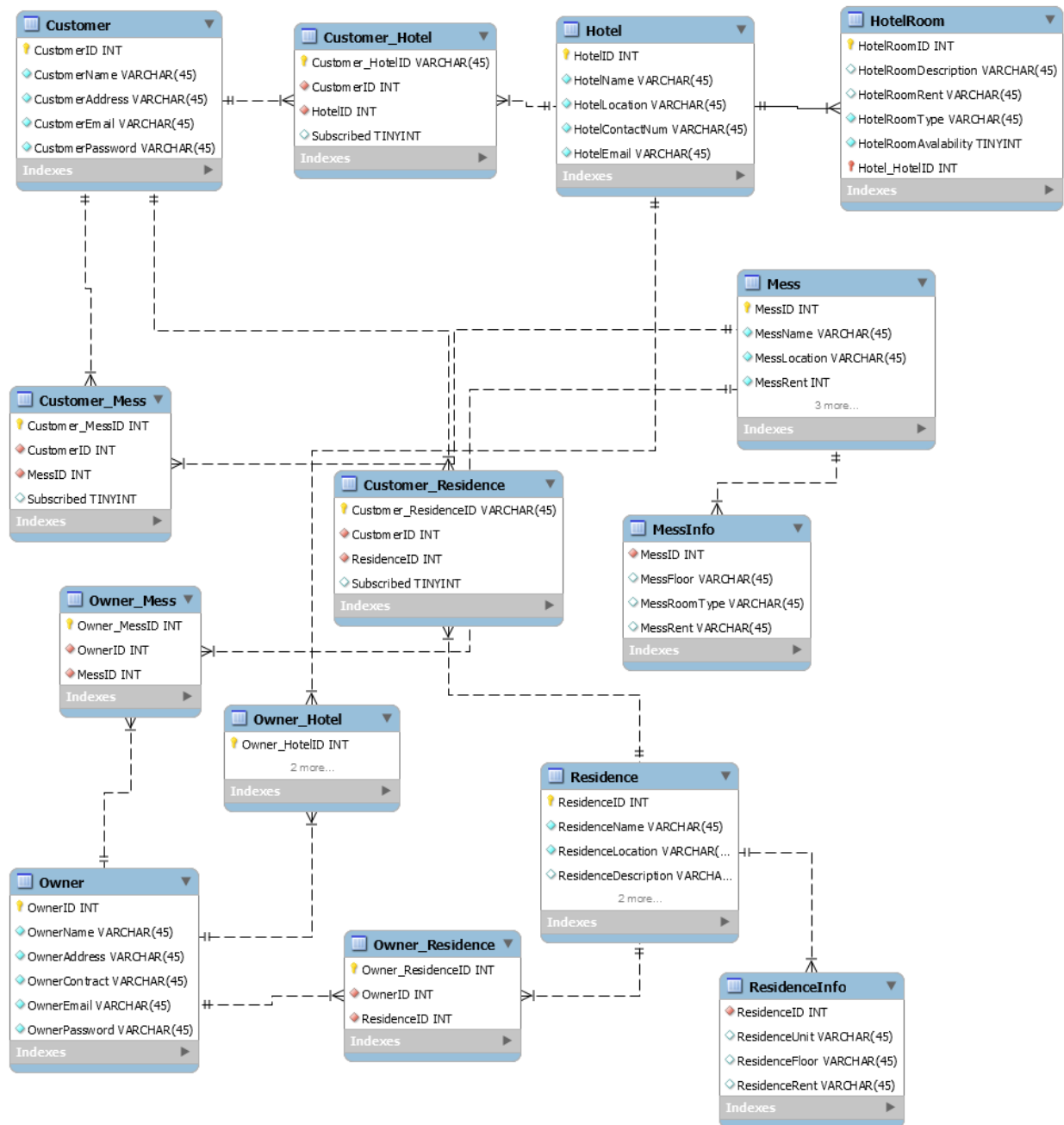


Figure 1: ER Diagram Of Hotel, Residence and Mess Management System

From this ER diagram, we can see 14 table is needed in the database to run the system properly.

## Class Diagram:

The class diagram of the “Hotel, Residence and Mess Management” are given below.

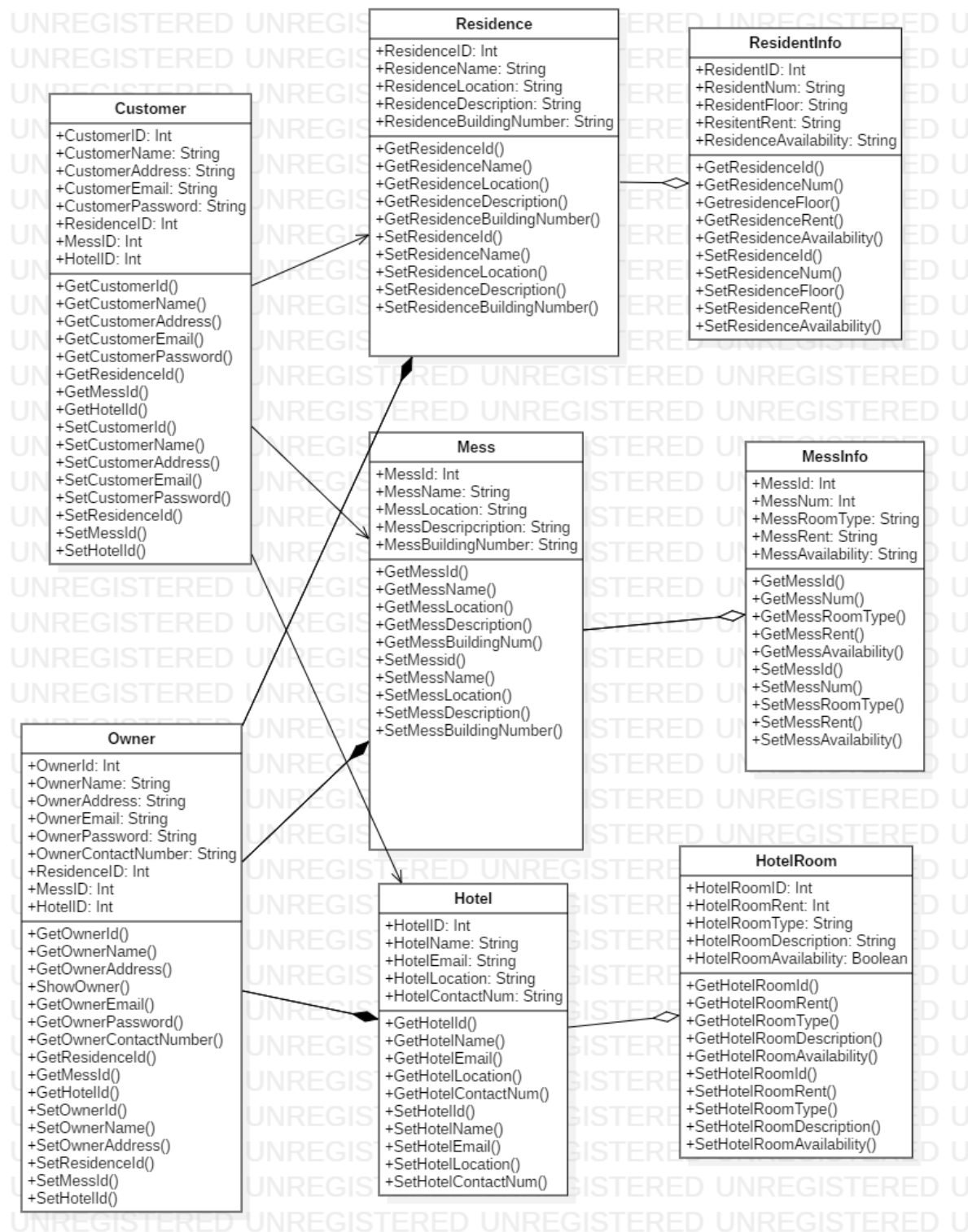


Figure 2: Class Diagram of “HRRM”

CLASS : User

```
boolean createUser(User)
User readUser(String Id)
boolean updateUser (User)
boolean deleteUser(User)
```

CLASS : Owner

```
boolean createOwner(Owner)
User readOwner(String Id)
boolean updateOwner (Owner)
boolean deleteOwner(Owner)
```

CLASS : Residence

```
boolean createResidence(Residence)
User readResidence(String Id)
boolean updateResidence (Residence)
boolean deleteResidence(Residence)
List<Residence> searchResidencebyLocation(String location)
List<Residence> searchResidencebyBudget(String rent)
List<Residence> searchResidencebyAvailability(Boolean avalability)
List<Residence> searchResidencebyBudgetAndLocation(String location, String rent)
```

CLASS : ResidenceInfo

```
boolean createResidenceInfo(ResidenceInfo)
User readResidenceInfo(String Id)
boolean updateResidenceInfo (ResidenceInfo)
boolean deleteResidenceInfo(ResidenceInfo)
List<ResidenceInfo> searchResidenceInfobyLocation(String location)
List<ResidenceInfo> searchResidenceInfobyBudget(String rent)
List<ResidenceInfo> searchResidenceInfobyAvailability(Boolean avalability)
List<ResidenceInfo> searchResidenceInfobyBudgetAndLocation(String location, String rent)
```

CLASS : Mess

```
boolean createMess(Mess)
User readMess(String Id)
```

```
boolean updateMess(Mess)
boolean deleteMess(Mess)
List<Mess> searchMessbyLocation(String location)
List<Mess> searchMessbyBudget(String rent)
List<Mess> searchMessbyAvailability(Boolean avalability)
List<Mess> searchMessbyBudgetAndLocation(String location, String rent)
```

#### CLASS : Mess

```
boolean createMessInfo(MessInfo)
User readMessInfo (String Id)
boolean updateMessInfo (MessInfo)
boolean deleteMessInfo (MessInfo)
List<Mess> searchMessInfobyLocation(String location)
List<Mess> searchMessInfobyBudget(String rent)
List<Mess> searchMessInfobyAvailability(Boolean avalability)
List<Mess> searchMessInfobyBudgetAndLocation(String location, String rent)
```

#### CLASS : Hotel

```
boolean createHotel(Hotel)
User readHotel(String Id)
boolean updateHotel(Hotel)
boolean deleteHotel(Hotel)
List<Hotel> searchHotelbyLocation(String location)
List<Hotel> searchHotelbyBudget(String rent)
List<Hotel> searchHotelbyAvailability(Boolean avalability)
List<Hotel> searchHotelbyBudgetAndLocation(String location, String rent)
```

#### CLASS : HotelInfo

```
boolean createHotelInfo (HotelInfo)
User readHotelInfo (String Id)
boolean updateHotelInfo (HotelInfo)
boolean deleteHotelInfo(HotelInfo)
List<HotelInfo> searchHotelInfobyLocation(String location)
List<HotelInfo> searchHotelInfobyBudget(String rent)
List<HotelInfo> searchHotelInfobyAvailability(Boolean avalability)
List<HotelInfo> searchHotelInfobyBudgetAndLocation(String location, String rent)
```

## User Interface:

The class diagram of the “Hotel, Residence and Mess Management” are given below.

### Log In:

At the start of the program, user in to log in to get access in the system. There are two types of user. These are: Owner and Tanant.

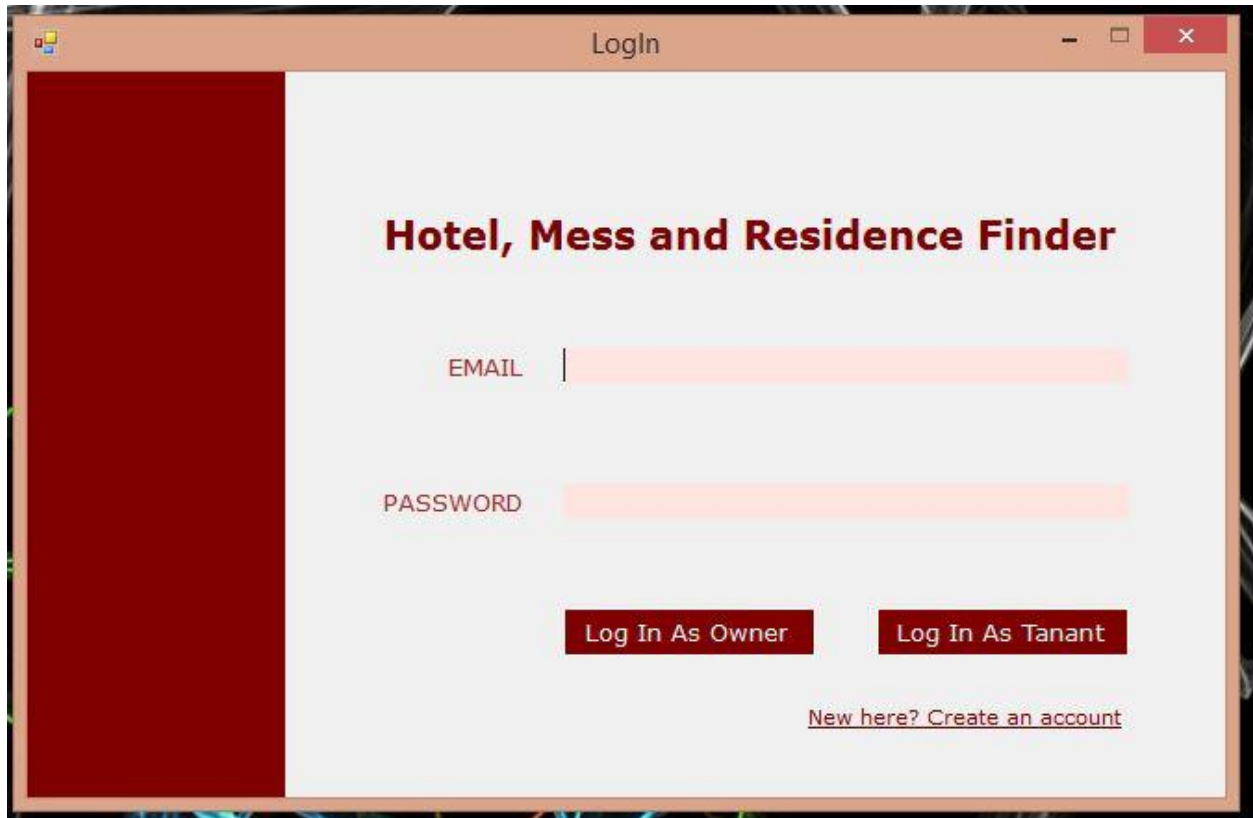
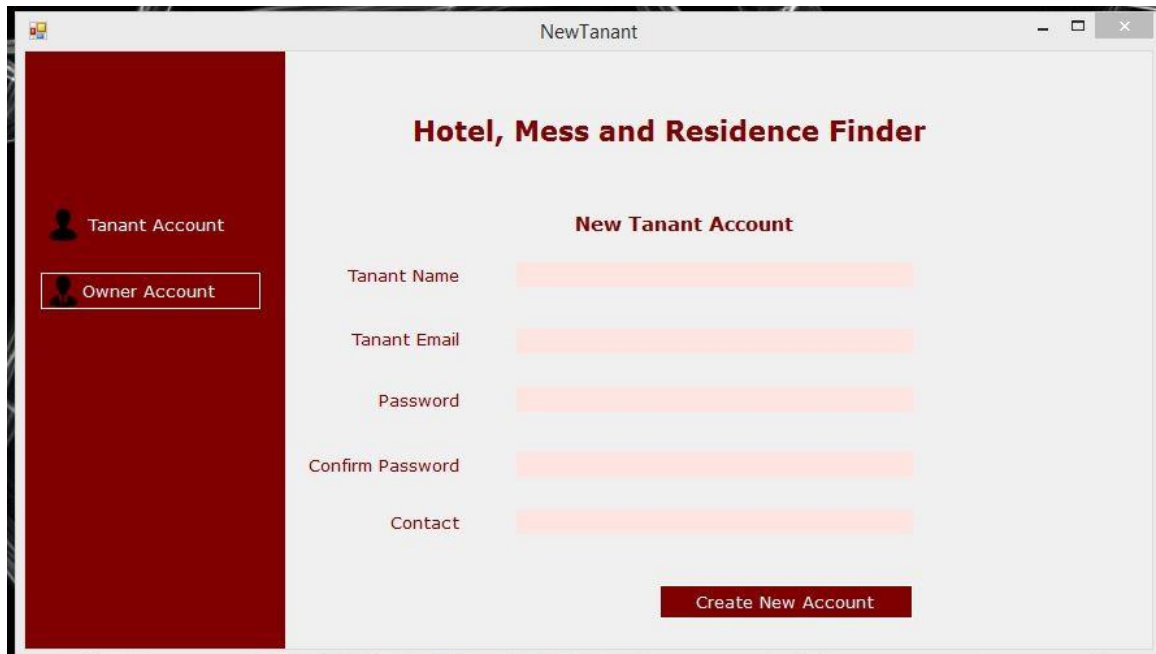


Figure 3: Log In View

If user does not have an account, he/she needs to create an account using the “Create an account” link.

## New Tenant Id:

As there are two types of users, there are two types of account. Tenants can create their account here easily. After filling up the form, they press “Create New Account” to create their account.

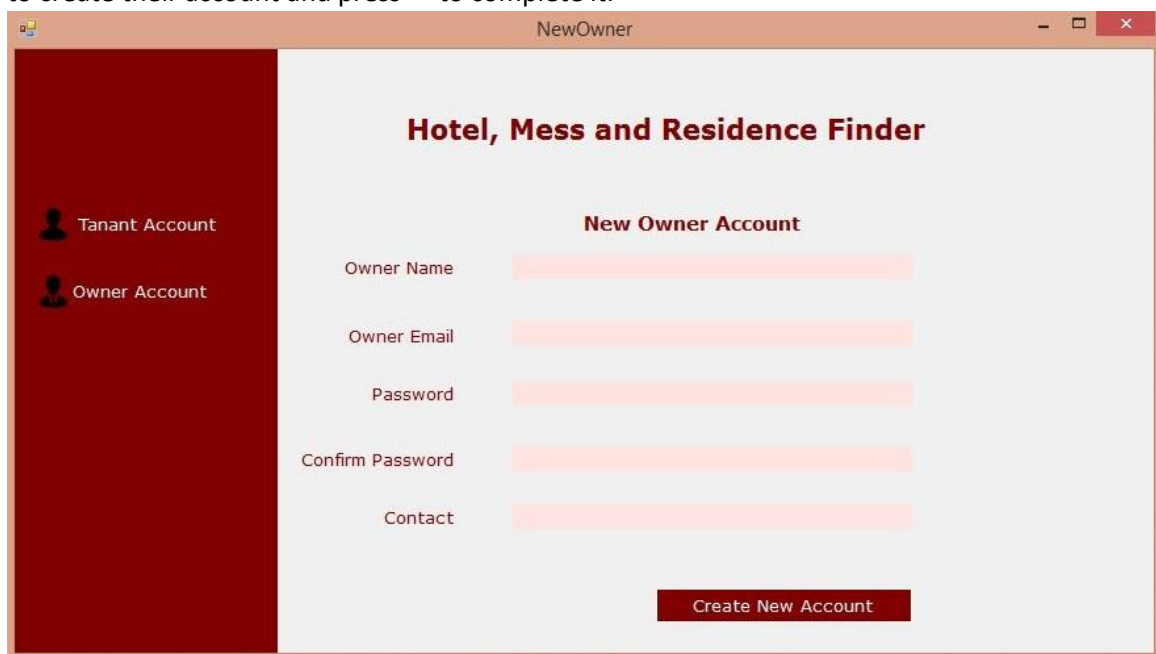


The screenshot shows a web application window titled "NewTenant". On the left is a dark red sidebar with two options: "Tenant Account" and "Owner Account", the latter of which is highlighted with a white border. The main content area has a light gray background and is titled "Hotel, Mess and Residence Finder" in bold dark red text. Below this, the section "New Tenant Account" is centered. It contains five input fields: "Tenant Name", "Tenant Email", "Password", "Confirm Password", and "Contact". At the bottom right of the form is a dark red button labeled "Create New Account".

Figure 4: New Tenant View

## New Owner Account:

For owner account, owners need to press “Owner Account”. Owners fill their form here to create their account and press “” to complete it.



The screenshot shows a web application window titled "NewOwner". On the left is a dark red sidebar with two options: "Tenant Account" and "Owner Account", the latter of which is highlighted with a white border. The main content area has a light gray background and is titled "Hotel, Mess and Residence Finder" in bold dark red text. Below this, the section "New Owner Account" is centered. It contains five input fields: "Owner Name", "Owner Email", "Password", "Confirm Password", and "Contact". At the bottom right of the form is a dark red button labeled "Create New Account".

Figure 5: New Owner View

## Tenant Home:

When login as tenant, user first sees the home page. In home page many available hotels, residences add messes are shown like below.



Figure 6: Tenant Home View

## View Details:

User can see details about the hotels, residences and messes here.

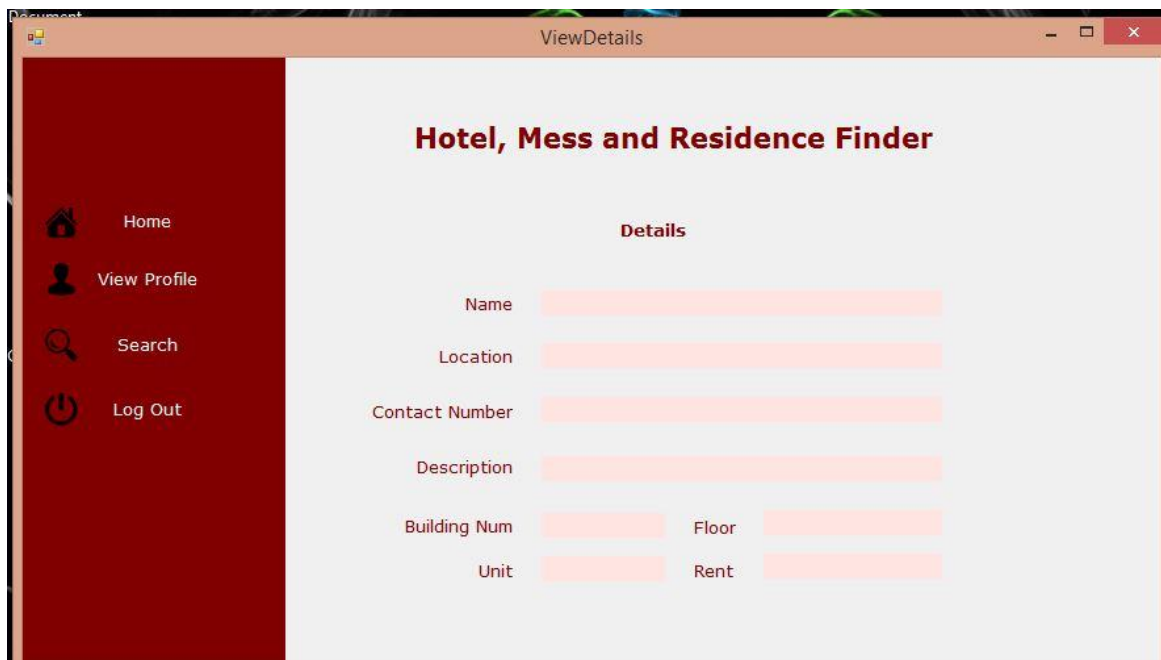


Figure 7: Details About Residences View



## View Subscribed:

User can subscribe their favorite house from details. They can get these in view subscribed option in home.

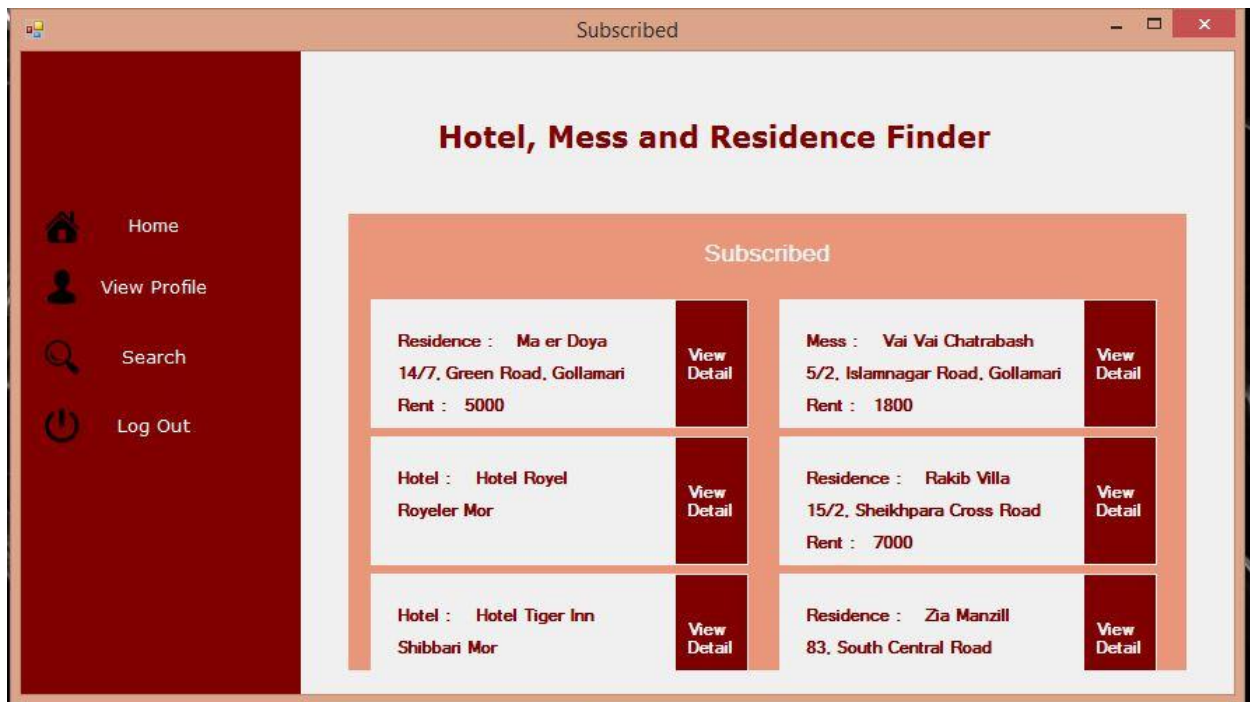
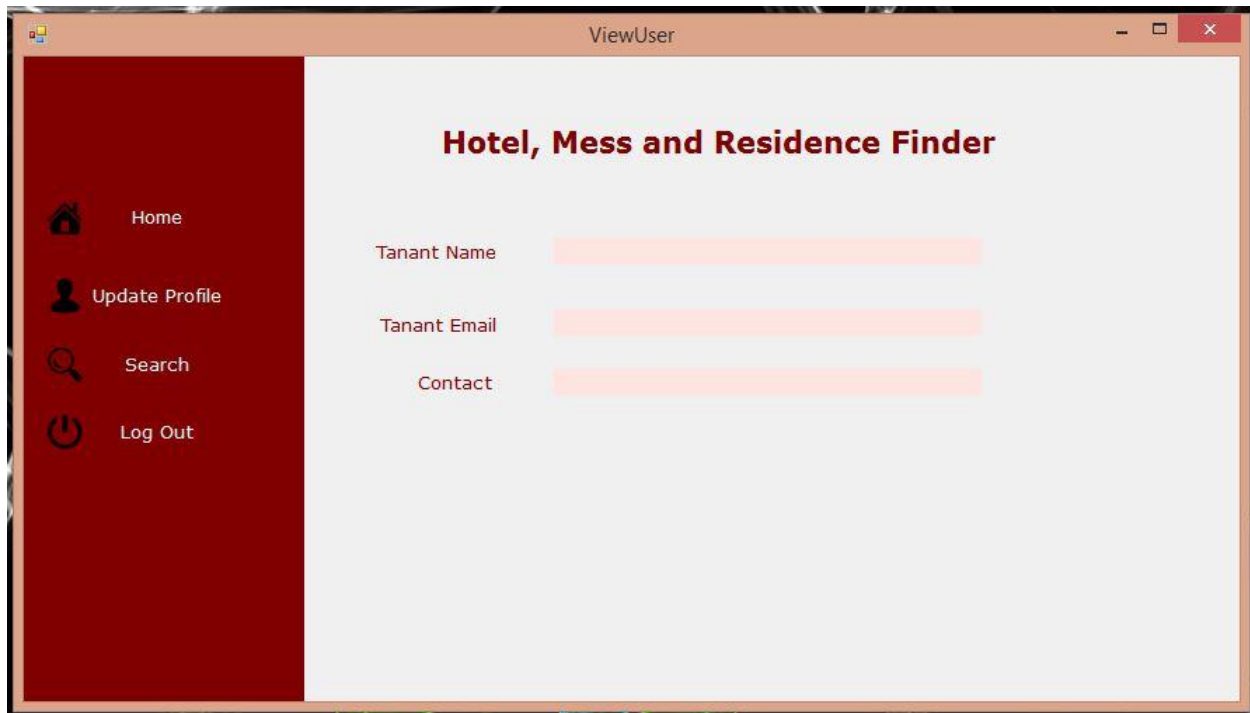


Figure 8: View Subscribed

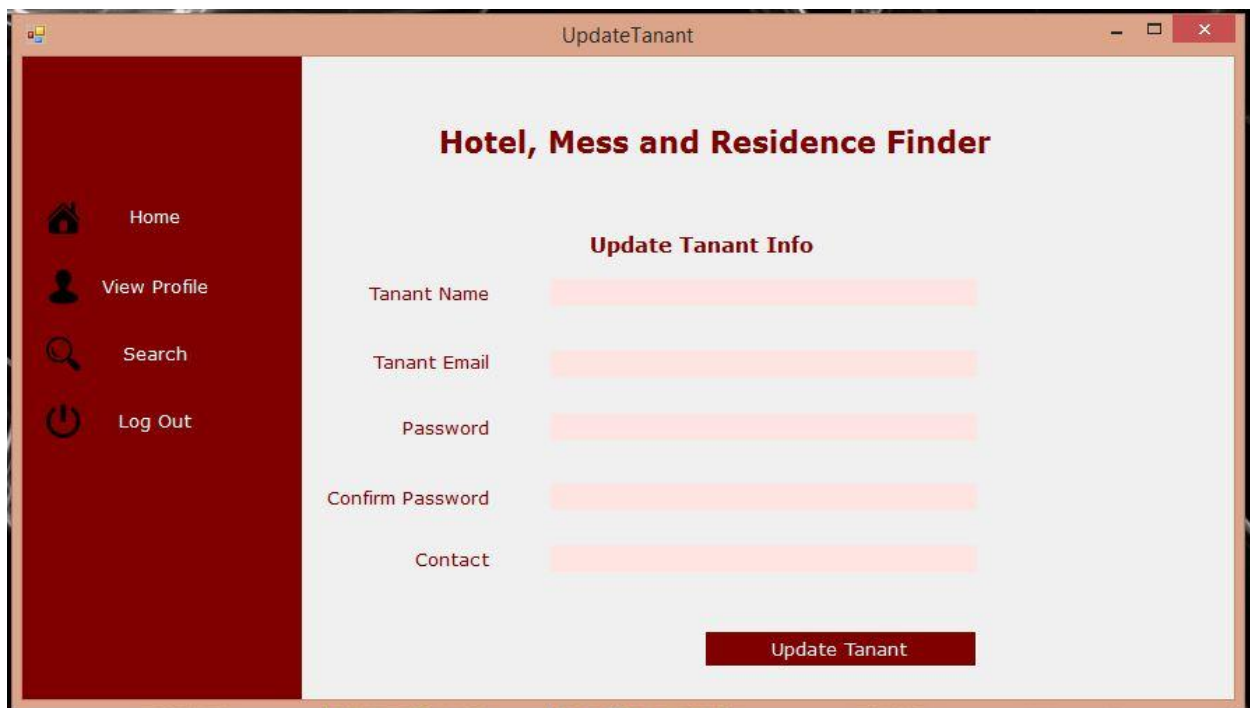
### View Profile :

User can see his/her information by pressing here. If the data needs to be updated or password needs to be changed, user can change that using “Update Profile” option.



The screenshot shows a web application window titled "ViewUser". On the left is a dark red sidebar with four menu items: "Home" (house icon), "Update Profile" (person icon), "Search" (magnifying glass icon), and "Log Out" (power icon). The main content area has a light gray background and is titled "Hotel, Mess and Residence Finder" in bold red text. Below the title are three input fields for "Tanant Name", "Tanant Email", and "Contact", each with a light red border.

Figure 8: Tenant Profile View



The screenshot shows a web application window titled "UpdateTenant". It has the same dark red sidebar as Figure 8, but the "View Profile" menu item is highlighted. The main content area is titled "Hotel, Mess and Residence Finder" in bold red text. Below the title is a section titled "Update Tenant Info" in bold red text. This section contains five input fields: "Tanant Name", "Tanant Email", "Password", "Confirm Password", and "Contact", each with a light red border. At the bottom right of the main content area is a dark red button labeled "Update Tenant" in white text.

Figure 10: Update Profile View

## Search:

User can search for their desired house and residences here. They can search by rent budget and location. Result will be shown as:

The screenshot shows a web application window titled "Search". On the left is a dark red sidebar with four menu items: "Home" (house icon), "View Profile" (person icon), "Search" (magnifying glass icon), and "Log Out" (power icon). The main content area has a light gray background with the title "Hotel, Mess and Residence Finder" in bold red text. Below the title are two search filters: "Budget" and "Area", each with a light orange input field. To the right of each input field is a dark red button labeled "Search By Budget" and "Search By Area" respectively. At the bottom center of the main area is a dark red button labeled "Search".

Figure 11: Search View

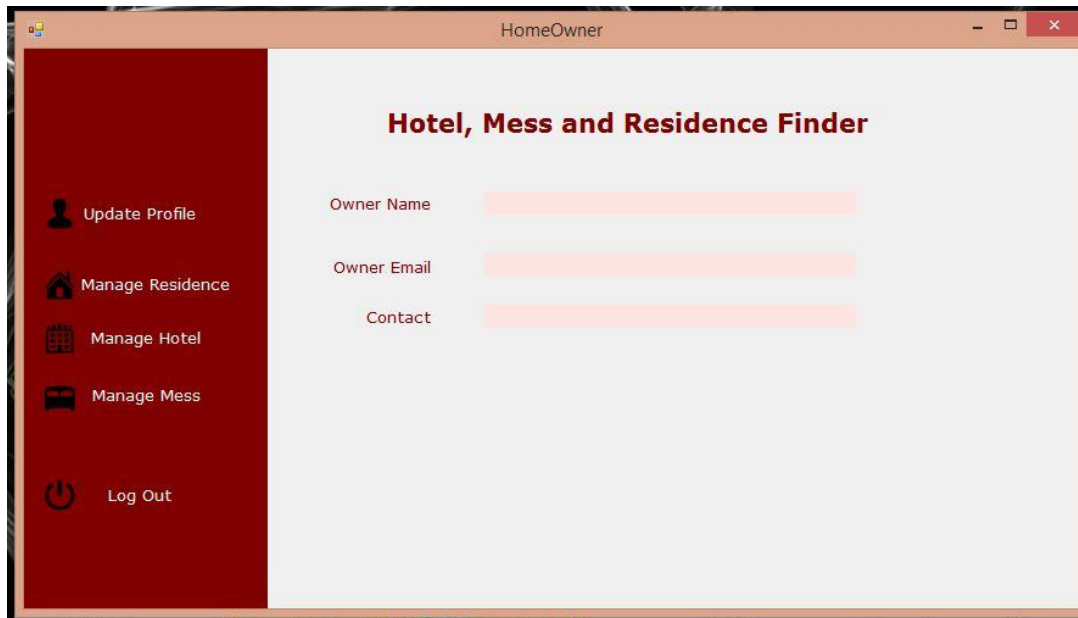
The screenshot shows a web application window titled "SearchResult". It has the same dark red sidebar as Figure 11. The main content area has a light gray background with the title "Hotel, Mess and Residence Finder" in bold red text. Below the title is a light orange box titled "Search Result" in white text. Inside this box, there are four white cards arranged in a 2x2 grid. Each card displays the following information: "Residence : [Name]", the address, and the rent. To the right of each card is a dark red button labeled "View Detail".

Search Result	
Residence : Afnan Bhobon 87, South Central Road Rent : 15000	View Detail
Residence : Az Manzill 83, South Central Road Rent : 15000	View Detail
Residence : Biddut Monjil 85, South Central Road Rent : 20000	View Detail
Residence : Mesu Villa 83, South Central Road Rent : 12000	View Detail

Figure 12: Search Result View

## Owner Home:

After login/creating account owner gwt to see their home page first. Where they can see their informations.

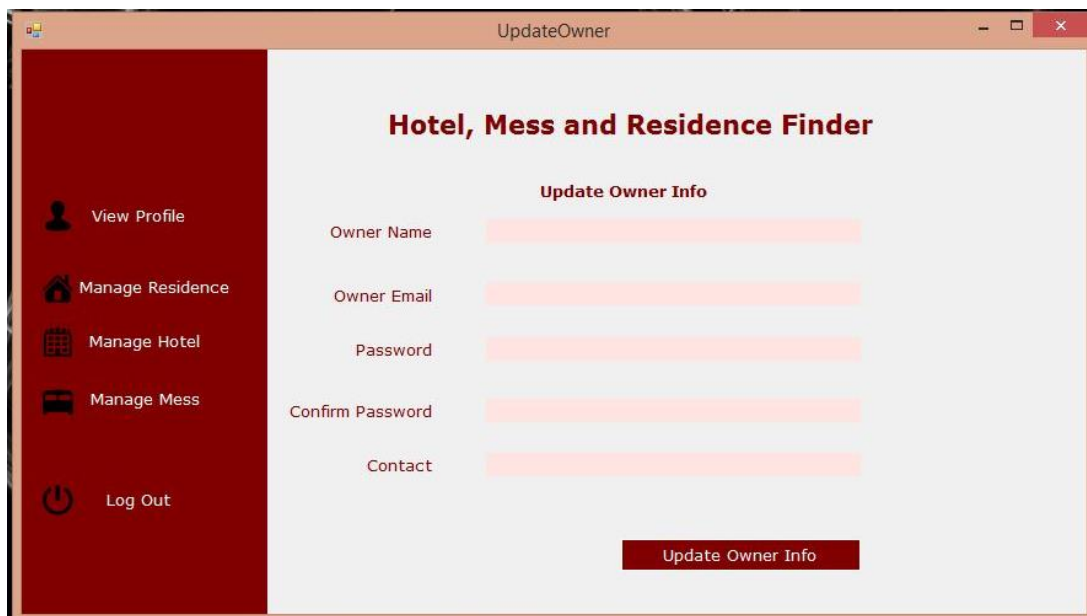


The screenshot shows a web browser window titled "HomeOwner". On the left is a dark red sidebar with five menu items: "Update Profile" (with a person icon), "Manage Residence" (with a house icon), "Manage Hotel" (with a calendar icon), "Manage Mess" (with a speech bubble icon), and "Log Out" (with a power icon). The main content area has a light gray background and is titled "Hotel, Mess and Residence Finder". Below the title are three input fields labeled "Owner Name", "Owner Email", and "Contact".

Figure 13: Owner Profile View

## Update Profile:

Owner get to update their information and password here.



The screenshot shows a web browser window titled "UpdateOwner". The sidebar is identical to the previous page. The main content area is titled "Hotel, Mess and Residence Finder" and has a sub-header "Update Owner Info". Below this are five input fields labeled "Owner Name", "Owner Email", "Password", "Confirm Password", and "Contact". At the bottom right of the main area is a dark red button labeled "Update Owner Info".

Figure 14: Update Owner Information View

## Manage Residence:

Owners get to add new residences here. They can also update their residence by using update residence.

The screenshot shows a web application window titled "AddResidence". On the left is a dark red sidebar with navigation links: "View Profile" (person icon), "Update Residence" (house icon), "Manage Hotel" (calendar icon), "Manage Mess" (bus icon), and "Log Out" (power icon). The main content area has a light gray background with the title "Hotel, Mess and Residence Finder" in bold red text. Below this is the "Add Residence" section, which contains a form with the following fields: "Residence Name", "Location", "Contact Number", "Description", "Building Num", "Floor", "Unit", and "Rent". Each field is represented by a light pink input box. At the bottom right of the form is a dark red button labeled "Add Residence".

Figure 15: Add Residence View

The screenshot shows a web application window titled "UpdateResidence". The layout is identical to the "Add Residence" view, with the same dark red sidebar and light gray main content area. The title "Hotel, Mess and Residence Finder" is present. The "Update Residence" section contains the same form fields: "Residence Name", "Location", "Contact Number", "Description", "Building Num", "Floor", "Unit", and "Rent", each with a light pink input box. At the bottom right is a dark red button labeled "Update Residence".

Figure 16: Update Residence View

## Manage Mess:

Owner can add new mess and update their mess information here.

The screenshot shows a web application window titled 'AddMess'. On the left is a dark red sidebar with navigation links: 'View Profile' (person icon), 'Manage Residence' (house icon), 'Manage Hotel' (calendar icon), 'Update Mess' (mess icon), and 'Log Out' (power icon). The main content area has a light gray background with the title 'Hotel, Mess and Residence Finder' in bold red. Below the title is the heading 'Add Mess'. The form contains the following fields: 'Mess Name' (text), 'Location' (text), 'Contact Number' (text), 'Description' (text), 'Building Num' (text), 'Floor' (text), 'Type' (text), and 'Rent' (text). At the bottom right is a red button labeled 'Add Mess'.

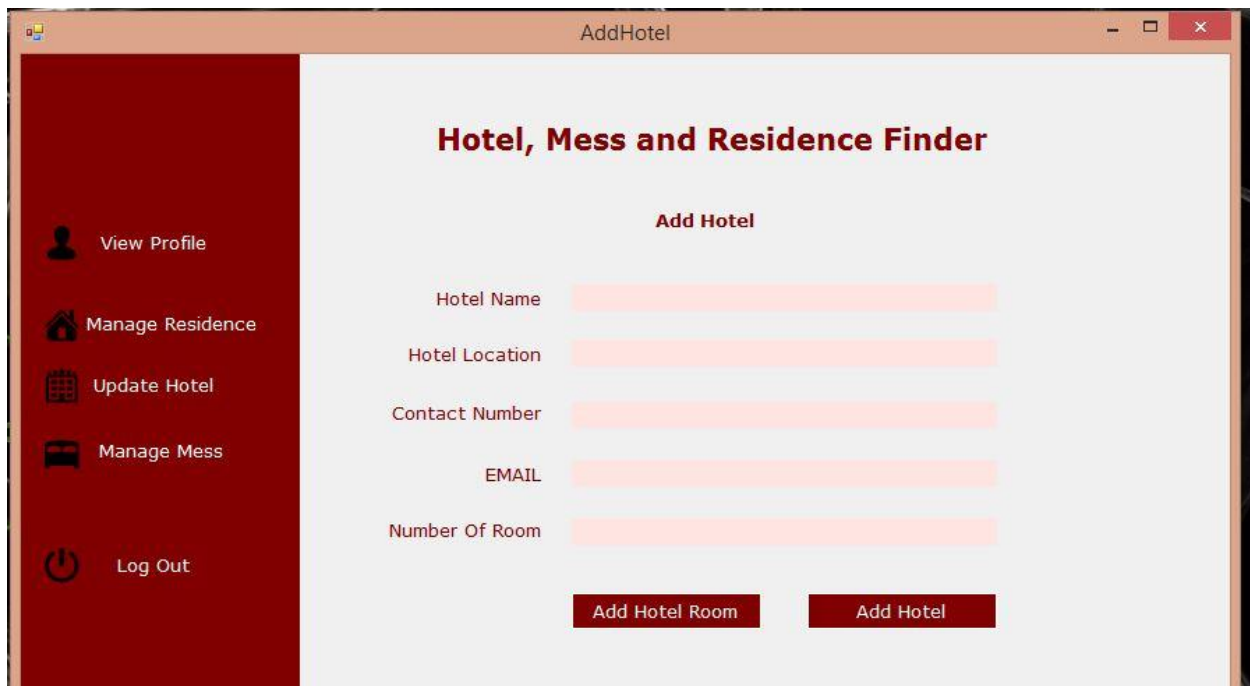
Figure 17: Add Mess View

The screenshot shows a web application window titled 'UpdateMess'. The sidebar is identical to the previous view. The main content area has the same title 'Hotel, Mess and Residence Finder' and heading 'Update Mess'. The form fields are the same as in the 'Add Mess' view: 'Mess Name', 'Location', 'Contact Number', 'Description', 'Building Num', 'Floor', 'Type', and 'Rent'. At the bottom right is a red button labeled 'Update Mess'.

Figure 18: Update Mess View

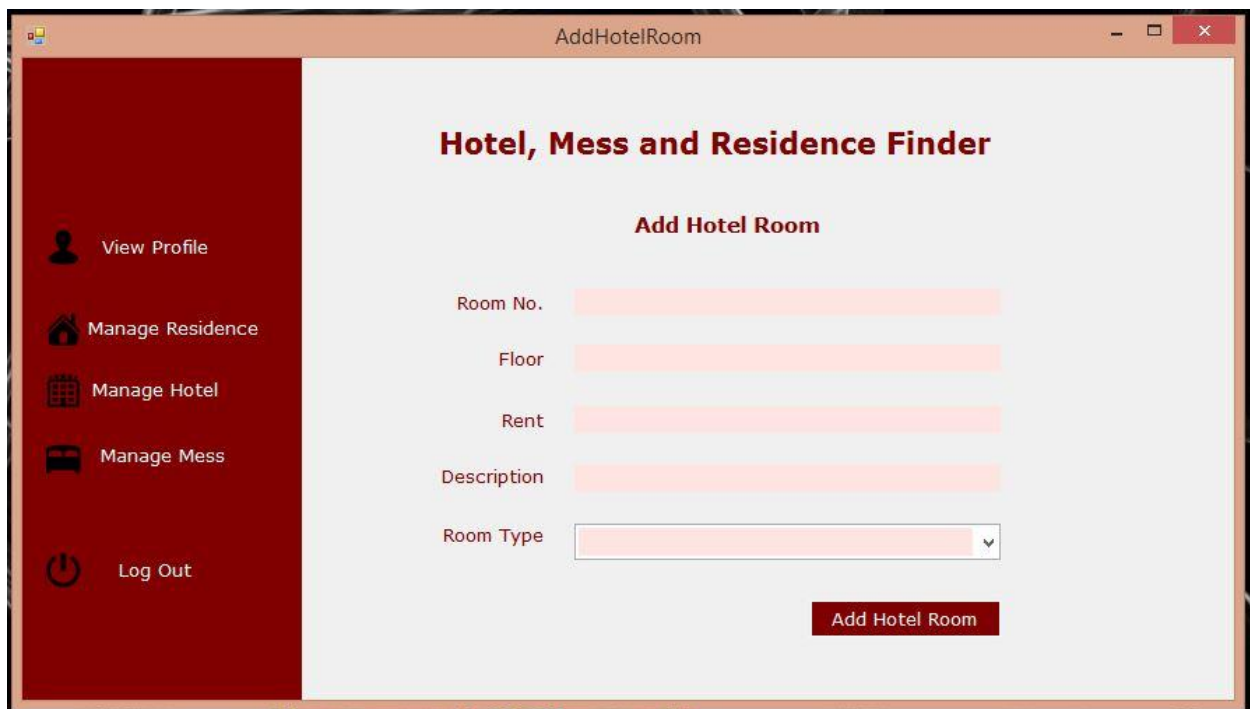
## Manage Hotel:

User can add new hotel here with proper information. They can also add new rooms here.



The screenshot shows a web application window titled "AddHotel". On the left is a dark red sidebar with navigation links: "View Profile" (person icon), "Manage Residence" (house icon), "Update Hotel" (calendar icon), "Manage Mess" (dining table icon), and "Log Out" (power icon). The main content area has a light gray background with the title "Hotel, Mess and Residence Finder" in bold red text. Below the title is the heading "Add Hotel". The form contains five input fields: "Hotel Name", "Hotel Location", "Contact Number", "EMAIL", and "Number Of Room". At the bottom of the form are two red buttons: "Add Hotel Room" and "Add Hotel".

Figure 19: Add Hotel View



The screenshot shows a web application window titled "AddHotelRoom". It features the same dark red sidebar as Figure 19, with navigation links: "View Profile", "Manage Residence", "Manage Hotel" (calendar icon), "Manage Mess", and "Log Out". The main content area has a light gray background with the title "Hotel, Mess and Residence Finder" in bold red text. Below the title is the heading "Add Hotel Room". The form contains five input fields: "Room No.", "Floor", "Rent", "Description", and "Room Type" (which is a dropdown menu). At the bottom of the form is a single red button: "Add Hotel Room".

Figure 20: Add Hotel Room View



User can also update their hotel and hotel rooms information using “Update Hotel”

The screenshot shows a web application window titled "UpdateHotel". On the left is a dark red sidebar with navigation links: "View Profile" (with a person icon), "Manage Residence" (with a house icon), "Manage Hotel" (with a calendar icon), "Manage Mess" (with a table icon), and "Log Out" (with a power icon). The main content area has a light gray background and is titled "Hotel, Mess and Residence Finder" in bold red text. Below this is a sub-header "Update Hotel". The form contains five input fields: "Hotel Name", "Hotel Location", "Contact Number", "EMAIL", and "Number Of Room". At the bottom of the form are two red buttons: "Update Hotel Room" and "Update Hotel".

Figure 21: Update Hotel View

The screenshot shows a web application window titled "UpdateHotelRoom". It features the same dark red sidebar as Figure 21. The main content area is titled "Hotel, Mess and Residence Finder" in bold red text, with a sub-header "Update Hotel Room". The form includes six input fields: "Room No.", "Floor", "Rent", "Description", and "Room Type" (which is a dropdown menu). A red button labeled "Update Hotel Room" is positioned at the bottom right of the form.

Figure 22: Update Hotel Room View