**Syed Ahmad**
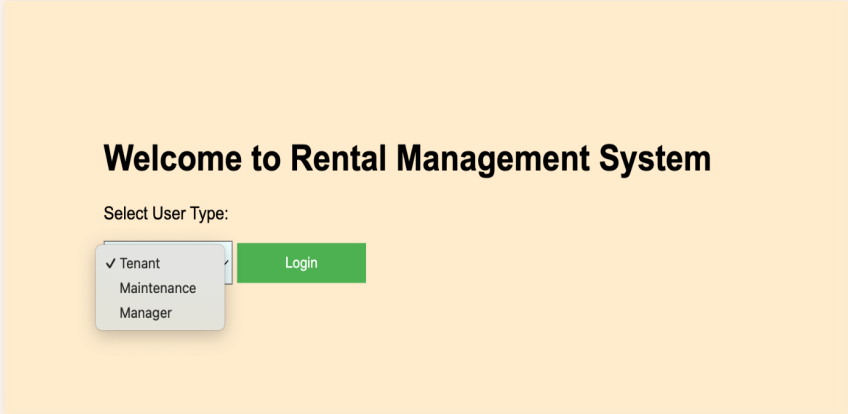**CMPSC 487**
**Project 3**

## Rental Management System

When a user access this Rental Management System, they will have three options (Tenant, Maintenance, or Manager) as shown below. They can choose one option and can log in to the system.

**1. Tenant:**

When a user logs in tenant portal they will see the following page. Here they would be able to submit a new maintenance request. They would also be able to see the previously submitted requests at the bottom of the page. When submitting a new request, tenant has to specify Area of Problem, add a brief problem description to explain anything in detail to the maintenance team. Tenant also has a option to upload a photo.



Following picture shows when a user submit a new tenant request, it will show up in Previous Request section.

**Submit Maintenance Request**

Area of Problem:

[                                                    ]

Problem Description:

[                                                    ]

Optional Photo:

[ Choose File ] No file chosen

[ Submit Request ]

**Previous Requests**

Request ID: 456089
Apartment Number: 123
Area: bedroom
Date/Time: 12/3/2023, 6:12:31 PM
Status: pending

Request ID: 898067
Apartment Number: 123
Area: Bathroom
Date/Time: 12/3/2023, 6:31:33 PM
Status: pending

When a user submit a new request, it would appear in maintenance portal.

## 2. Maintenance:

When a person from Maintenance Team logs in to the system, they will see the following:



Maintenance Team member would be ableto see the existing requests. They would also be able to use filter by Apartment Number, Area, Date Range, and status. Following pictures show the usage and functionalities of these filters:

Filter by Apartment Number

**Welcome to Maintenance Staff portal!**

**Browse Maintenance Requests**

Filter by:

| Apartment Number ⌄ | 101 |

Apply Filter

Request ID: 1
Apartment Number: 101
Area: Kitchen
Date/Time: 2023-11-24 10:00
Status: completed

Update Status

Filter by Area

**Welcome to Maintenance Staff portal!**

**Browse Maintenance Requests**

Filter by:

| Area ⌄ | Bedroom |

Apply Filter

Request ID: 3
Apartment Number: 103
Area: Bedroom
Date/Time: 2023-12-03 06:12
Status: pending

Update Status

Filter by Date Range

# Welcome to Maintenance Staff portal!

## Browse Maintenance Requests

Filter by:

| Date Range ▾ | 2023-12-03 |

**Apply Filter**

Request ID: 2
Apartment Number: 102
Area: Bathroom
Date/Time: 2023-12-03 06:31
Status: pending

**Update Status**

Request ID: 3
Apartment Number: 103
Area: Bedroom
Date/Time: 2023-12-03 06:12
Status: pending

**Update Status**

Filter by status

# Welcome to Maintenance Staff portal!

## Browse Maintenance Requests

Filter by:

| Status ⌄ | pending |

**Apply Filter**

Request ID: 2
Apartment Number: 102
Area: Bathroom
Date/Time: 2023-12-03 06:31
Status: pending

**Update Status**

Request ID: 3
Apartment Number: 103
Area: Bedroom
Date/Time: 2023-12-03 06:12
Status: pending

**Update Status**

## 3. Manager

When a manager logs in the system, following screens will show up:

Add tenant



**Welcome to Manager Portal!**

**Add Tenant**

Tenant Name:

Phone Number:

Email:

Check-in Date:

mm/dd/yyyy

Apartment Number:

Add Tenant

Update Tenant

## Update Tenant Information

Tenant ID:

[                                        ]

Tenant Name:

[                                        ]

Phone Number:

[                                        ]

Email:

[                                        ]

Check-in Date:

[ mm/dd/yyyy                          📅 ]

Check-Out Date:

[ mm/dd/yyyy                          📅 ]

Apartment Number:

[                                        ]

[ Update Tenant ]

Move Tenant and Delete Tenant

## Move Tenant to Another Apartment

Tenant ID:

[                                        ]

New Apartment Number:

[                                        ]

[ Move Tenant ]

## Delete Tenant

Tenant ID:

[                                        ]

[ Delete Tenant ]

**Add Tenant:**

Manager can add a Tenant. Following pictures shows the functionality of add tenant:

## Welcome to Manager Portal!

### Add Tenant

Tenant Name:

Alice Green

Phone Number:

3150000000

Email:

alice@hotmail.com

Check-in Date:

12/03/2023

Apartment Number:

103

Add Tenant

Tenant Table:

| Tenant ID | Name | Phone | Email | Check-in Date | Apartment Number | Check-out Date |
|-----------|------|-------|-------|---------------|------------------|----------------|
| 1 | John Doe | 123-456-7890 | john@example.com | 2023-01-01 | 101 | |
| 2 | Jane Doe | 987-654-3210 | jane@example.com | 2023-02-01 | 102 | |
| 3 | Alice Green | 3150000000 | alice@hotmail.com | 2023-12-03 | 103 | |

**Update Tenant:**

Manager can update an existing tenant. Following pictures shows functionalities of update tenant

Here we can see the manager updated apartment number and email of tenant with ID = 3

**Update Tenant Information**

Tenant ID:

| 3 |

Tenant Name:

| Alice Green |

Phone Number:

| 3150000999 |

Email:

| alice@hotmail.com |

Check-in Date:

| 12/03/2023 |

Check-Out Date:

| mm/dd/yyyy |

Apartment Number:

| 120 |

Update Tenant

Tenant table:

| Tenant ID | Name | Phone | Email | Check-in Date | Apartment Number | Check-out Date |
|-----------|------|-------|-------|---------------|------------------|----------------|
| 1 | John Doe | 123-456-7890 | john@example.com | 2023-01-01 | 101 | |
| 2 | Jane Doe | 987-654-3210 | jane@example.com | 2023-02-01 | 102 | |
| 3 | Alice Green | 3150000999 | alice@hotmail.com | 2023-12-03 | 120 | |
| 4 | john | 3150000111 | john@gmail.com | 2023-12-03 | 104 | |
| 5 | Alexa jone | 3150000222 | alexa@gmail.com | 2023-12-05 | 105 | |

**Move Tenant:**

Here is an example of manager moving apartment of an existing tenant

Here Manager moved tenant with Id = 4 and assigned them a new apartment 124.

## Move Tenant to Another Apartment

Tenant ID:

4

New Apartment Number:

124

Move Tenant

Tenant Table

| Tenant ID | Name | Phone | Email | Check-in Date | Apartment Number | Check-out Date |
|---|---|---|---|---|---|---|
| 1 | John Doe | 123-456-7890 | john@example.com | 2023-01-01 | 101 | |
| 2 | Jane Doe | 987-654-3210 | jane@example.com | 2023-02-01 | 102 | |
| 3 | Alice Green | 3150000999 | alice@hotmail.com | 2023-12-03 | 120 | |
| 4 | john | 3150000111 | john@gmail.com | 2023-12-03 | 124 | |
| 5 | Alexa jone | 3150000222 | alexa@gmail.com | 2023-12-05 | 105 | |

**Delete Tenant:**

Manager can also delete a tenant. Following pictures shows functionalities of this:

Here Manager deleted the tenant with ID = 3.

### Delete Tenant

Tenant ID:

| 3 |

Delete Tenant

Tenant Table:

| Tenant ID | Name | Phone | Email | Check-in Date | Apartment Number | Check-out Date |
|-----------|------|-------|-------|---------------|------------------|----------------|
| 1 | John Doe | 123-456-7890 | john@example.com | 2023-01-01 | 101 | |
| 2 | Jane Doe | 987-654-3210 | jane@example.com | 2023-02-01 | 102 | |
| 4 | john | 3150000111 | john@gmail.com | 2023-12-03 | 124 | |
| 5 | Alexa jone | 3150000222 | alexa@gmail.com | 2023-12-05 | 105 | |