

## **SOEN 6441**

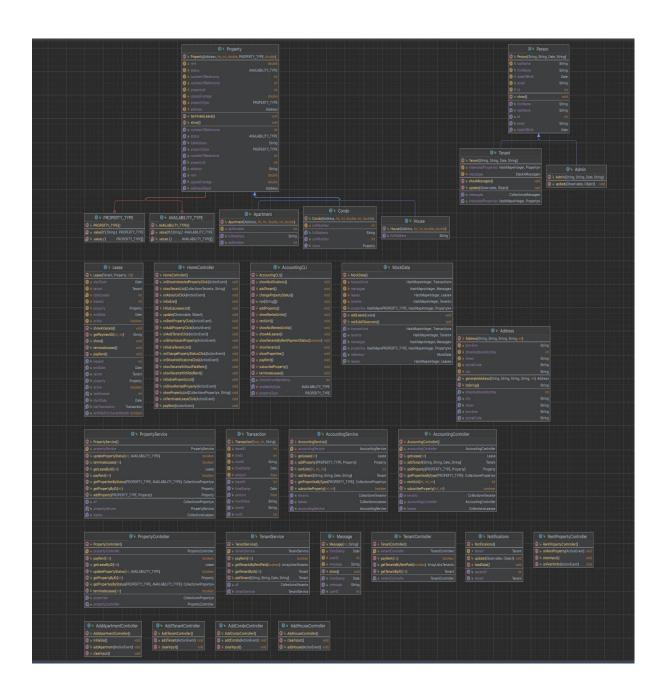
# **Advanced Programming Practices**

**Final Project Phase 2** 

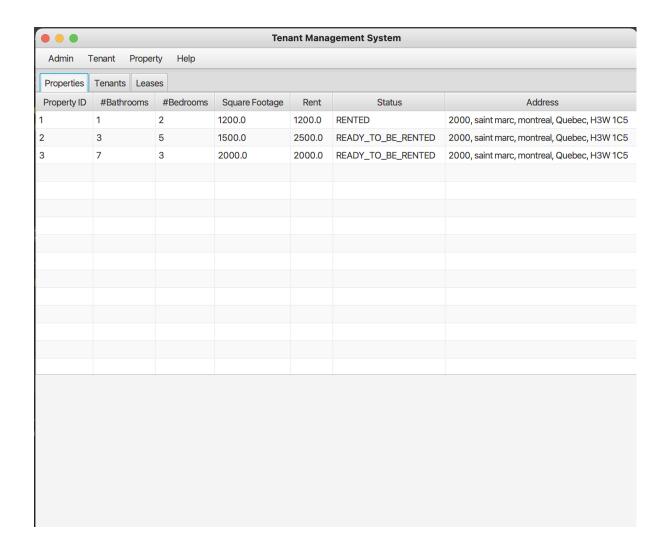
Submitted by,

Mayurkumar K Jodhani (40230634) Dharmil M Vaghasiya (40230633) Snehee V Patel (40231497)

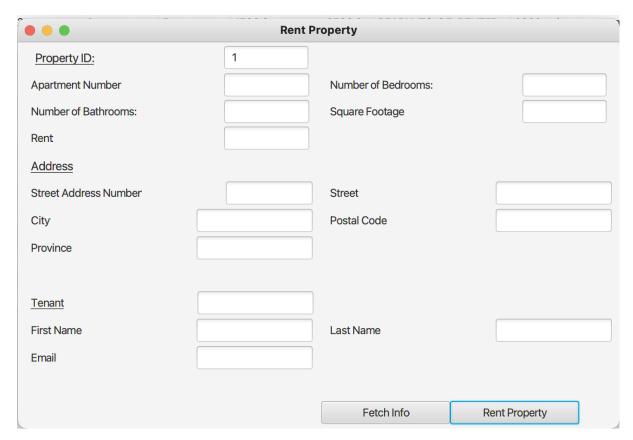
# <u>UML:</u>



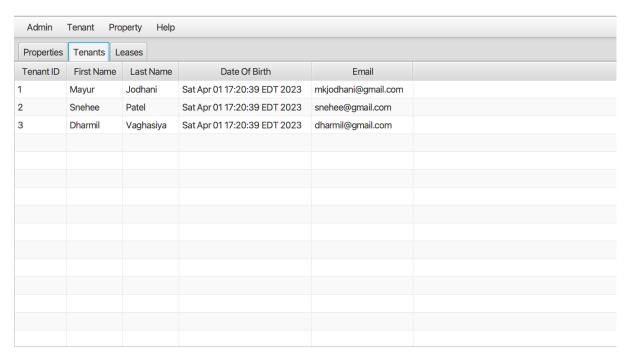
## **SAMPLE OUTPUTS:**



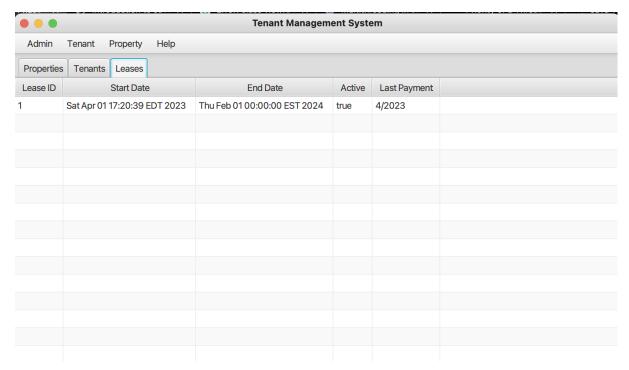
Start screen (with some dummy data)



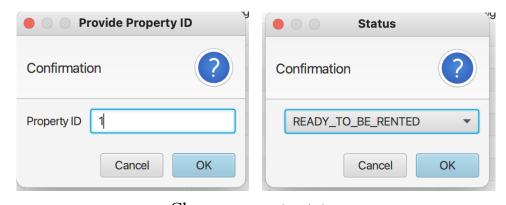
Rent Property



Show tenants



Show active Leases

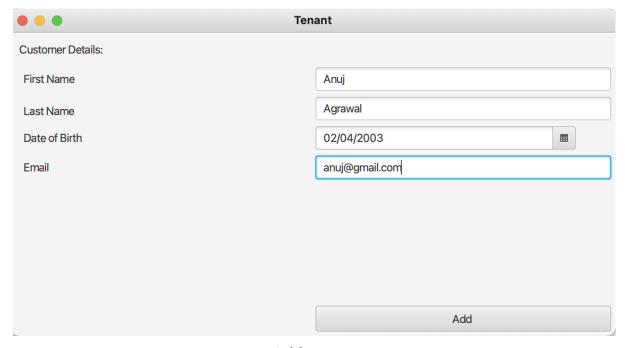


Change property status

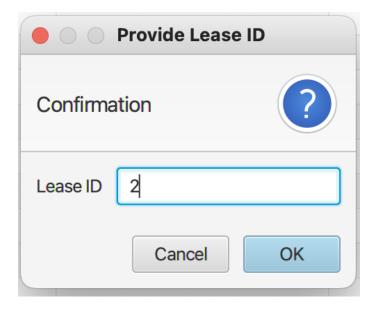


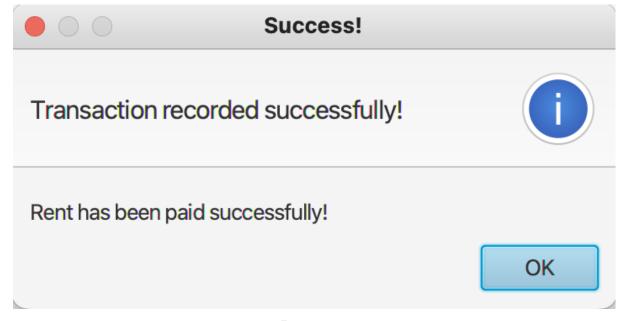


Terminate Lease

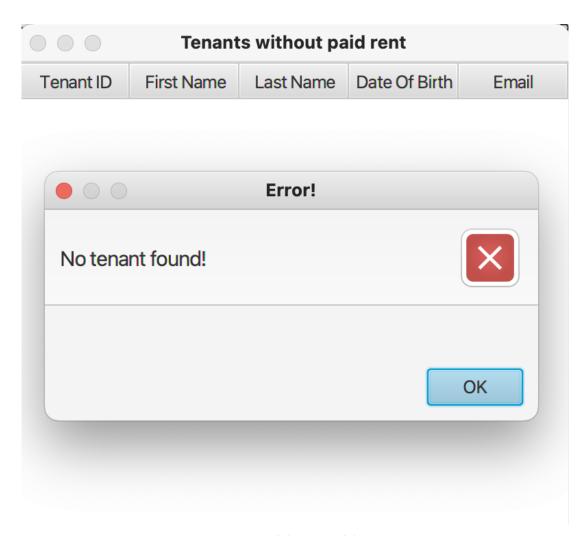


Add tenant



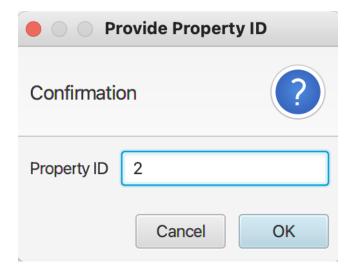


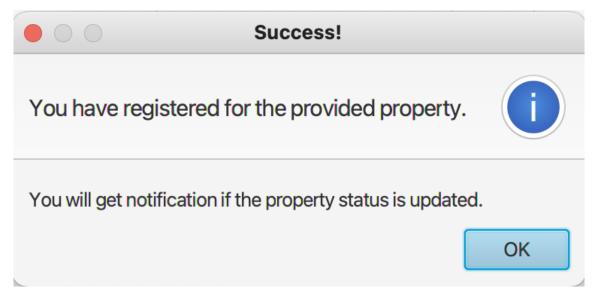
Pay rent



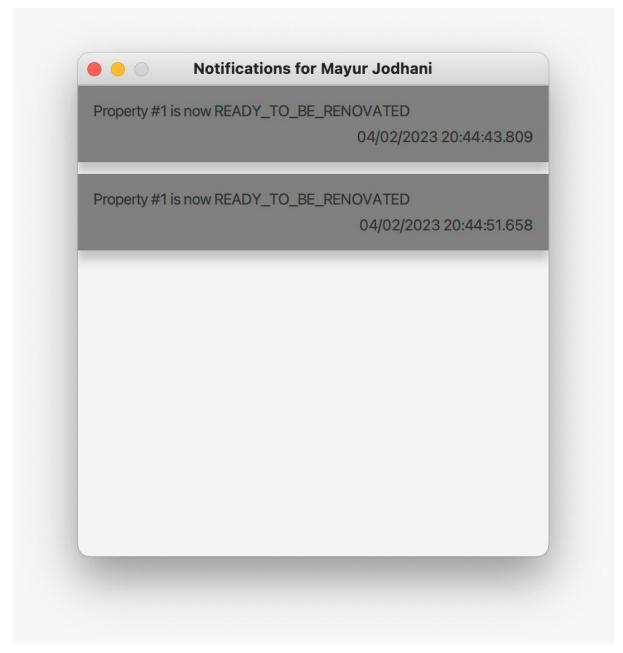
Tenants without paid rent



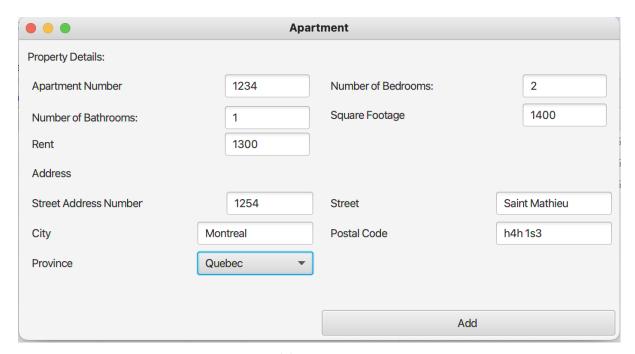




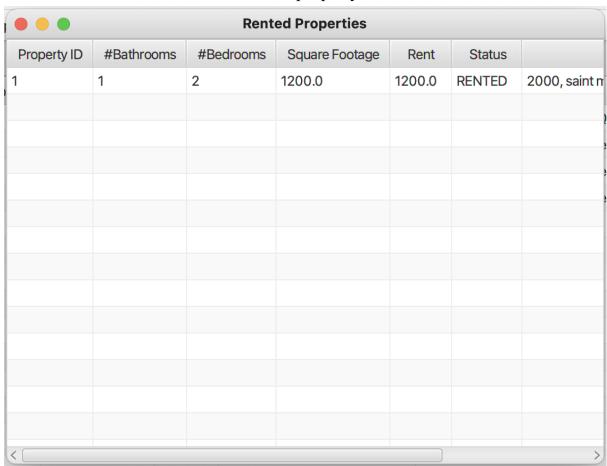
Show interest in property



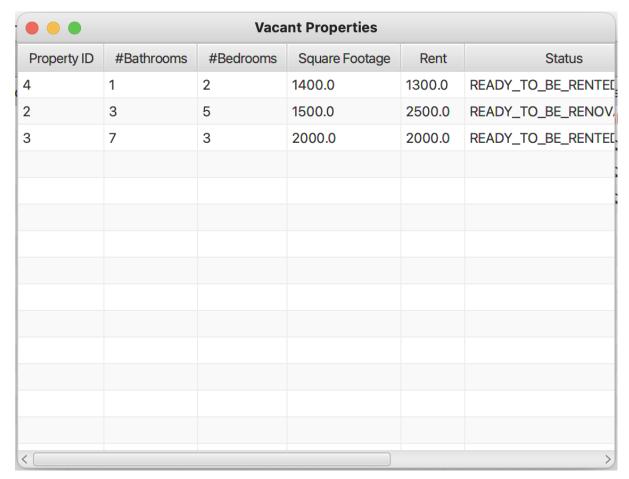
Show notifications (for tenant 4)



Add a property



Show rented property



Show vacant property

# **Set Assignment:**

## 1) Add element in Set:

```
1. Add element in set
2. Remove element from set
3. Check element with ID available
4. Size of set
5. Display All elements
6. exit
Enter your choice: 1
Enter id: 1
Enter name: xixi
Element added in to set successfully.
1. Add element in set
2. Remove element from set
3. Check element with ID available
4. Size of set
5. Display All elements
6. exit
Enter your choice: 1
Enter id: 2
Enter name: bob
Element added in to set successfully.
```

#### 2) Add element with duplicate id:

```
1. Add element in set
2. Remove element from set
3. Check element with ID available
4. Size of set
5. Display All elements
6. exit
Enter your choice: 1
Enter id: 2
Enter name: alice
Element is not added into set.
```

#### 3) Remove element from set:

```
1. Add element in set
2. Remove element from set
3. Check element with ID available
4. Size of set
5. Display All elements
6. exit
Enter your choice: 1
Enter id: 3
Enter name: mill
Element added in to set successfully.
1. Add element in set
2. Remove element from set
3. Check element with ID available
4. Size of set
5. Display All elements
6. exit
Enter your choice: 2
Enter id:
Element with id 2 removed successfully.
```

#### 4) Check element with ID available or not:

```
1. Add element in set
2. Remove element from set
3. Check element with ID available
4. Size of set
5. Display All elements
6. exit
Enter your choice: 3
Enter id:
Element with id 1 available in set.
1. Add element in set
2. Remove element from set
3. Check element with ID available
4. Size of set
5. Display All elements
6. exit
Enter your choice: 3
Enter id:
Element with id 6 not available in set.
```

### 5) Size of set:

```
    Add element in set
    Remove element from set
    Check element with ID available
    Size of set
    Display All elements
    exit
    Enter your choice: 4
    Size of set: 2
```

## 6) Display all elements:

```
    Add element in set
    Remove element from set
    Check element with ID available
    Size of set
    Display All elements
    exit
    Enter your choice: 5
    Animal{ id=1, name='xixi' }
    Animal{ id=3, name='mill' }
```

#### 7) Compare 2 set are equal or not:

```
Set 1:
Animal{ id=1, name='animal1' }
Animal{ id=2, name='animal2' }
Animal{ id=4, name='animal4' }
Set 2:
Animal{ id=1, name='animal1' }
Animal{ id=2, name='animal2' }
Animal{ id=3, name='animal3' }
Both are not equal
```

```
Set 1:
Animal{ id=1, name='animal1' }
Animal{ id=3, name='animal3' }
Animal{ id=2, name='animal2' }
Set 2:
Animal{ id=1, name='animal1' }
Animal{ id=2, name='animal2' }
Animal{ id=3, name='animal3' }
Both are equal

Process finished with exit code 0
```