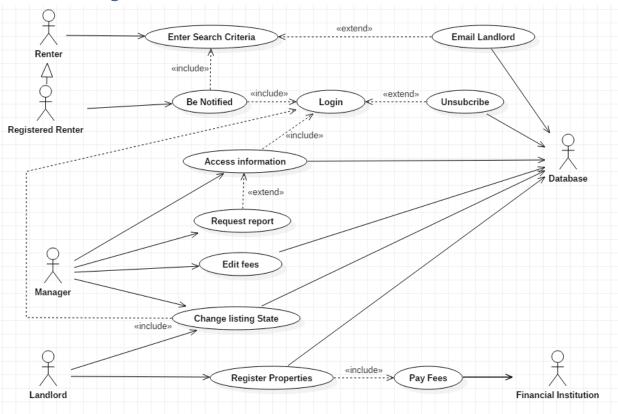
ENSF 480 Term Project Design

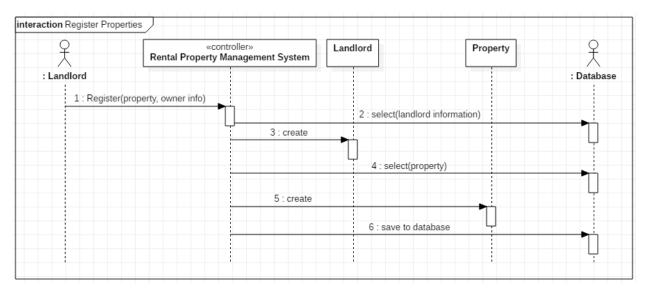
Melissa Picazo, Christina Lu, Michael Jeremy Olea

Use Case Diagram

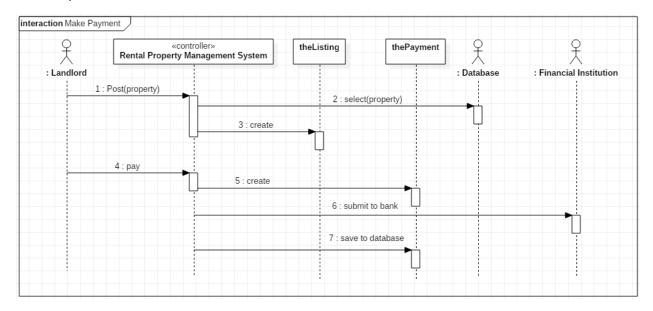


Sequence Diagrams

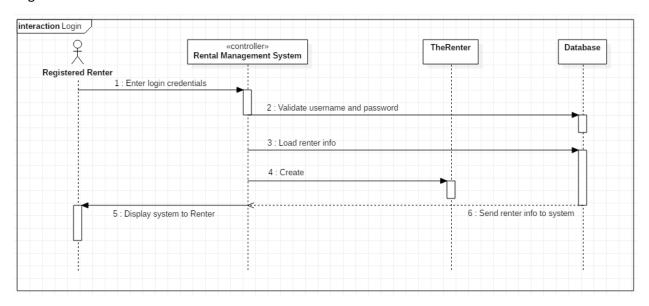
Register Properties



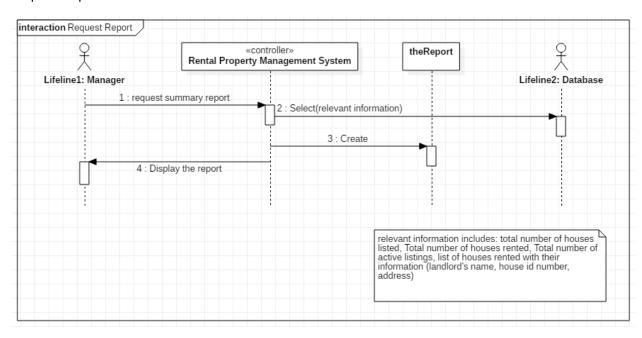
Make Payment



Login

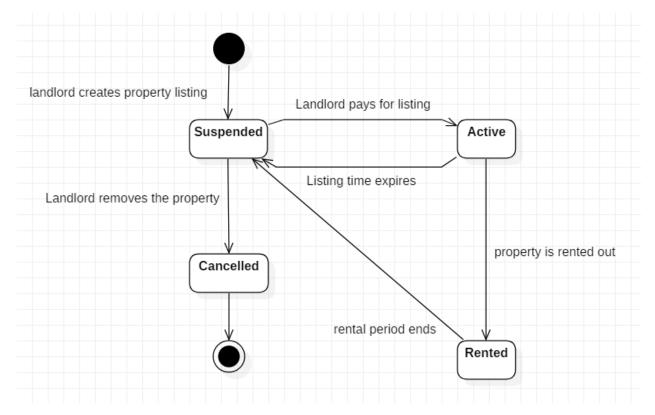


Request Report

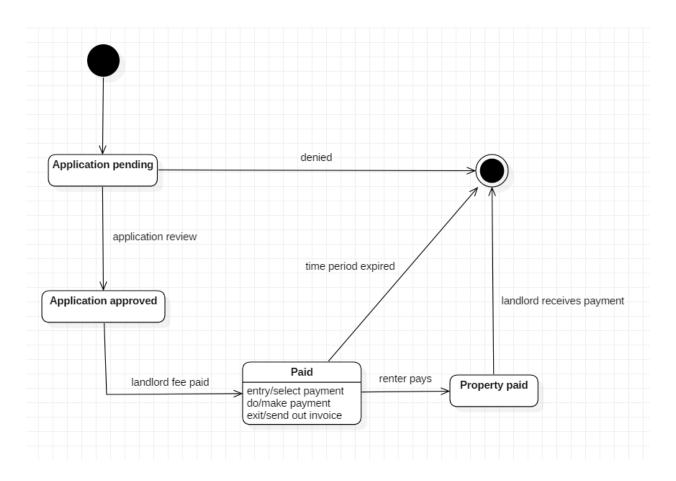


State Transition Diagrams

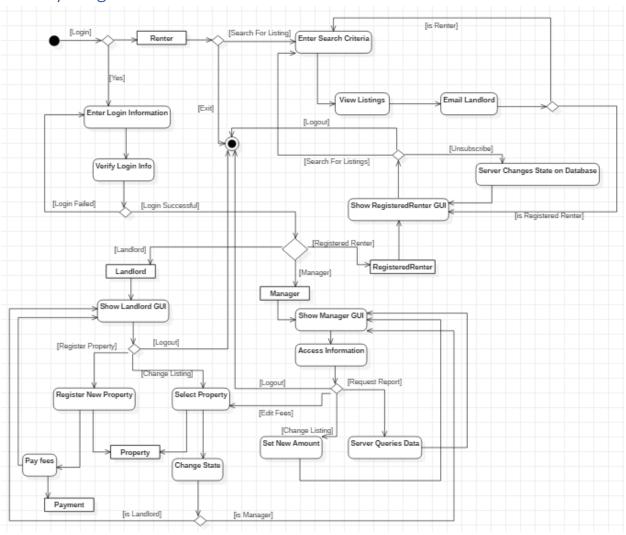
Property



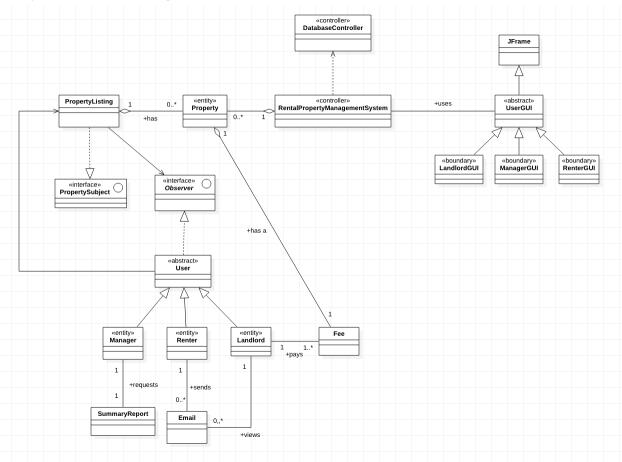
landlord posts his/her property



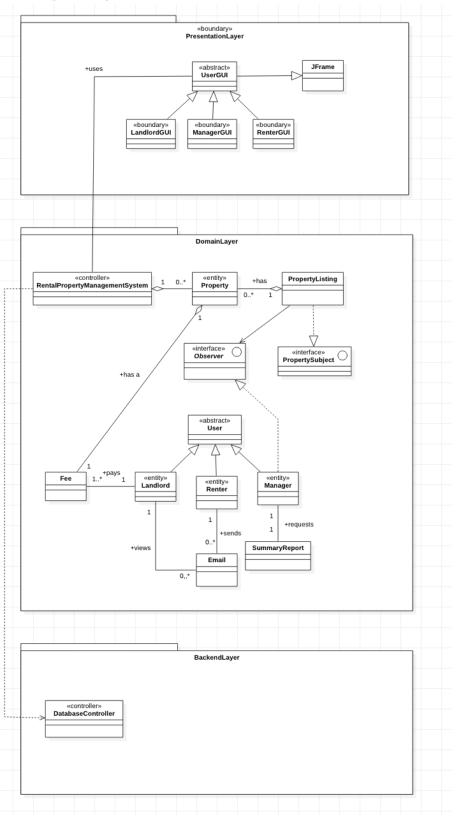
Activity Diagram



Simplified Class Diagram



Package Diagram



Class Details

User

+name: String +email: String +username: Štring

Manager

- +accessInformation()
- +requestReport()
- +changeState(PropertyListing, Property, String): void

Landlord

- +ownedProperties: ArrayList<Property> +listings: ArrayList<PropertyListing>
- +removeProperty(Property): void +addProperty(Property): void +changeListingState(Property, state): void

Renter

+updateCriteria(Property): void +sendListingEmail(): void

Observer

PropertySubject

+registerObserver(Observer): void

+removeObserver(Observer): void

+notifyAllObservers(Observer): void

- -subject: PropertySubject
- +updateCriteria(Property): void

«controller»

RentalPropertyManagementSystem

#database: DatabaseController #managers: ArrayList<Manager> #renters: ArrayList<Renter> #landlords: ArrayList<Landlord>

PropertyListing

- -observers: ArrayList<Observer> +properties: ArrayList<Property>
- +registerObserver(Observer): void
- +removeObserver(Observer): void
- +notifyAllObservers(Observer): void
- +addProperty(Property): void
- +removeProperty(Property): void

-sender: String -recipient: String -subject: String

Email

Fee

+amount: double +startDate: Date +endDate: Date

SummaryReport

- +startDate: Date +endDate: Date +totalHouses: int
- +totalRented: int
- +propertiesRented: ArrayList<Property>

«boundary» LandlordGUI

- ~displayManageListing(): void
- ~displayEmail(): void
- ~displayPayment(): void

«boundary» ManagerGUI

-displayManageListing(): void ~displayReport(): void ~displayDatabase(): void

«boundary»

UserGUI

- -displayHome(): void ~displayLogin(): void
- -displayListings(): void

Property

- +type: String +noBedrooms: int
- +noBathrooms: int
- +isFurnished: boolean
- +cityQuadrant: String
- +listingState: String
- +rent: double
- +datePosted: Date

«controller» DatabaseController

#searchProperty(): void #addPayment(): void #addProperty(): void #updateProperty(): void #getProperty(): void #updateFee(): void #validateLogin(): void

«boundary» Renter GUI

- displaySearchCriteria(): void
- ~displayEmail(): void ~displayNotifictions(): void

Deployment Diagram

