ENSF 480: Term Project Design Document

Course Name: Principles of Software Design

Section: L01 B01

Course Code: ENSF 480

Assignment Number: Term Project Design Document

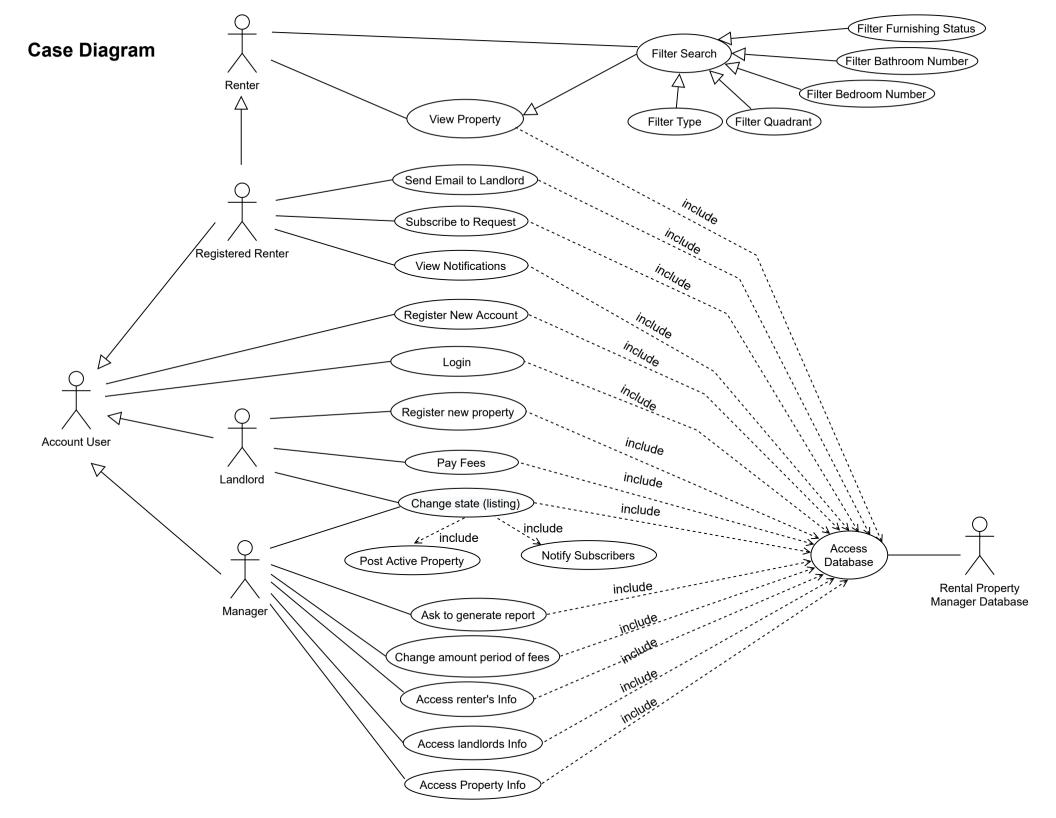
Instructor: Moussavi M.

Submission Date and Time: 2021/11/29

Group Number: 15

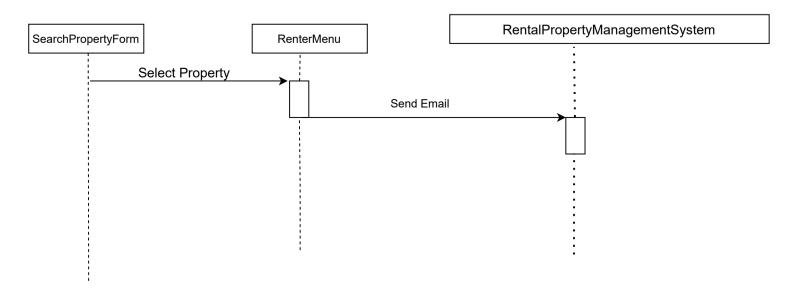
Names(s):

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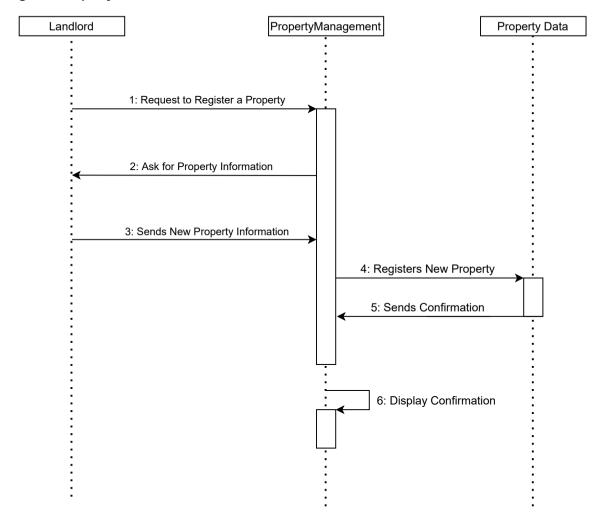


Sequence Diagrams

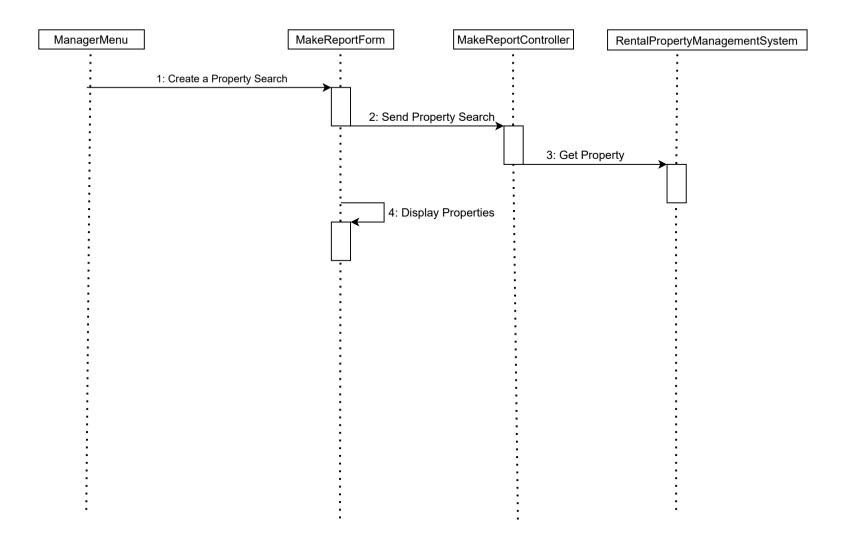
Rent Property



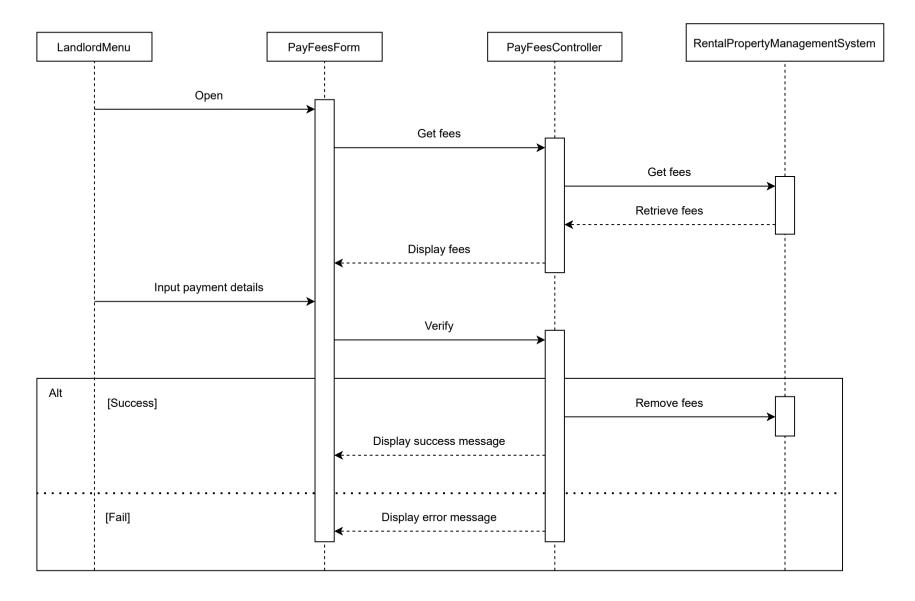
Register Property



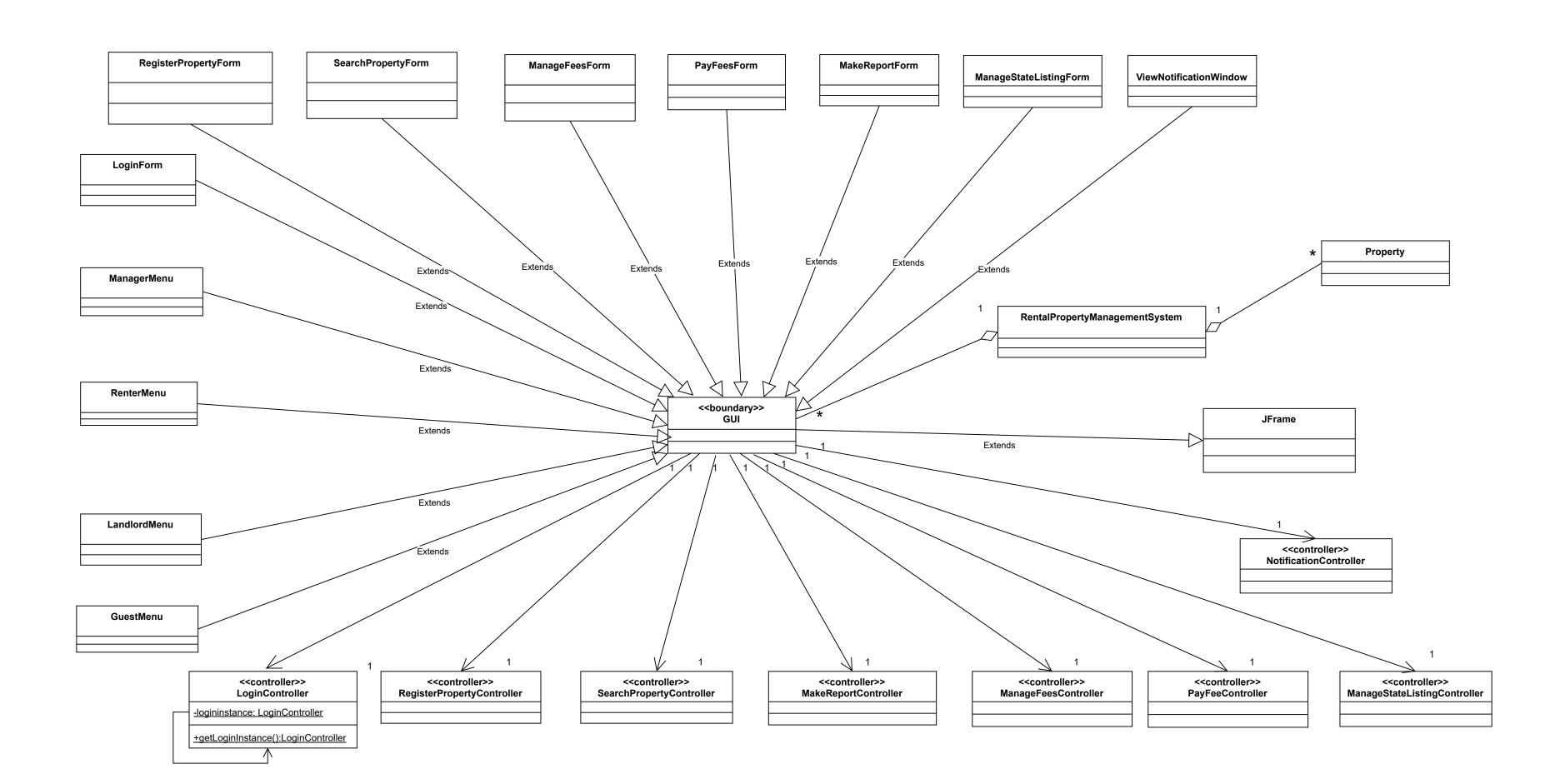
View Property



Pay Fee



Class Diagram



Detailed Class Diagram

Gui Package

GuestMenu

-startLogin(): JButton

-startSearchQueryButton(): JButton -startSearchQueryLabel(): JLabel

+createGuestMenu(): void

+makeSearchPropertyForm():void

LoginForm

-controller: LoginController

-enterUsername:JTextField

-enterPassword:JTextField

-enterUsername:JTextField-enterPassword:JTextField

+createLoginPage(): void

ManagerMenu

-setPeriodFeesButton: JButton

-changePeriodFeesButton: JButton

-displayPeriodicalSummaryButton: JButton

-changeStateListingButton: JButton

-setPeriodFeesLabel: JLabel

-changePeriodFeesLabel: JLabel

-displayPeriodicalSummaryLabel: JLabel

-changeStateListingLabel: JLabel

+createManagerMenu(): void

+makeManageFeesForm():void

+makeManageStateListingForm(): void

+makeMakeReportForm():void

RenterMenu

-emailButton: JButton -subscribeButton: JButton -notificationButton: JButton

-emailLabel: JLabel -subscribeLabel: JLabel

-notificationLabel: JLabel

+createRenterMenu(): void +makeSearchPropertyForm():void

+makeViewNotificationWindow():void

LandlordMenu

-registerPropertyButton: JButton

-payFeeButton: JButton

-changeStateButton: JButton

-registerPropertyLabel: JLabel

-payFeeLabel: JLabel

-changeStateLabel: JLabel

+createLandlordMenu(): void

+makeRegisterPropertyForm(): void

+makePayFeesForm(): void

+makeManageStateListingForm(): void

Gui Package

MakeReportForm

-managerController: LandlordFeeController

+createFeePaymentQuery(): void

+makeReport(): void

RegisterPropertyForm

-propertyRegisterController: LandlordRegisterController

-headLine: Jlabel
-type: JTextField
-bedrooms: JTextField
-bathrooms: JTextField
-location: JTextField
-name: JTextField
-state: JTextField
-furnished: JTextField

-submit: JButton -payFee: JButton

+createPropertyRegisterQuery(): void

+makePayFeesForm(): void

PayFeesForm

-controller: FeePeriodsController -paymentDetails:JTextField

-period: JTextField -payFeeButton: JButton -payFeeLabel: JLabel

+createChangeFeePeriodQuery(): void

+payFees(): void

ManageFeesForm

-managerController: ManagerSummaryFormController

-changePeriodButton: JTextField -changeFeeButton: JTextField

-headLine: JLabel -submit: JButton

+createSetFeePeriodQuery(): void

SearchPropertyForm

-propertyController: PropertySearchFormController

-searchQuery:JTextField -searchButton: JButton -searchLabel: JLabel

+createSearchQuery(): void

+sendEmailGUI(): void

+displayMatches(match: Property): ArrayList Property

ManageStateListingForm

-stateController: StateListingController

-headLine: JLabel -state: JTextField -Submit: JButton

+createChangeStateQuery(): void

ViewNotificationWindow

-stateController: StateListingController

-notification: JLabel

+displayNotification(): void

Controller Package

<controller>> LoginController

-logininstance: LoginController

+getLoginInstance():LoginController

<<controller>> PayFeeController

-parsing(details: String, period: int): void

<<controller>> ManageStateListingController

-parsing(stateUpdate: String, propertyName: String): void

<<controller>>
ManageFeesController

-parsing(fee: int, period: int): void

<<controller>>
NotificationController

-parsingDatabase(): void

<controller>> RegisterPropertyController

- parsing(type: String, bedrooms: int, bathrooms, int, isFurnished: boolean, quadrant: String): Property

<controller>>
SearchPropertyController

-parsing(type: String, bedrooms: int, bathrooms, int, isFurnished: boolean, quadrant: String): Property

<controller>>
MakeReportController

- parsing(period: int, numHousesListed: int, numHousesRented: int, numHousesActive: int, houses: ArrayList<Property>): void

Database Package

RentalPropertyManagementSystem

results: ResultSet-DBURL: String-USERNAME: String-PASSWORD: String-dbConnect: Connection

+ makeRequest(): void +getConnection(): Connection +getDBURL(): String

+initializeConnection(): Connection

+close(): void

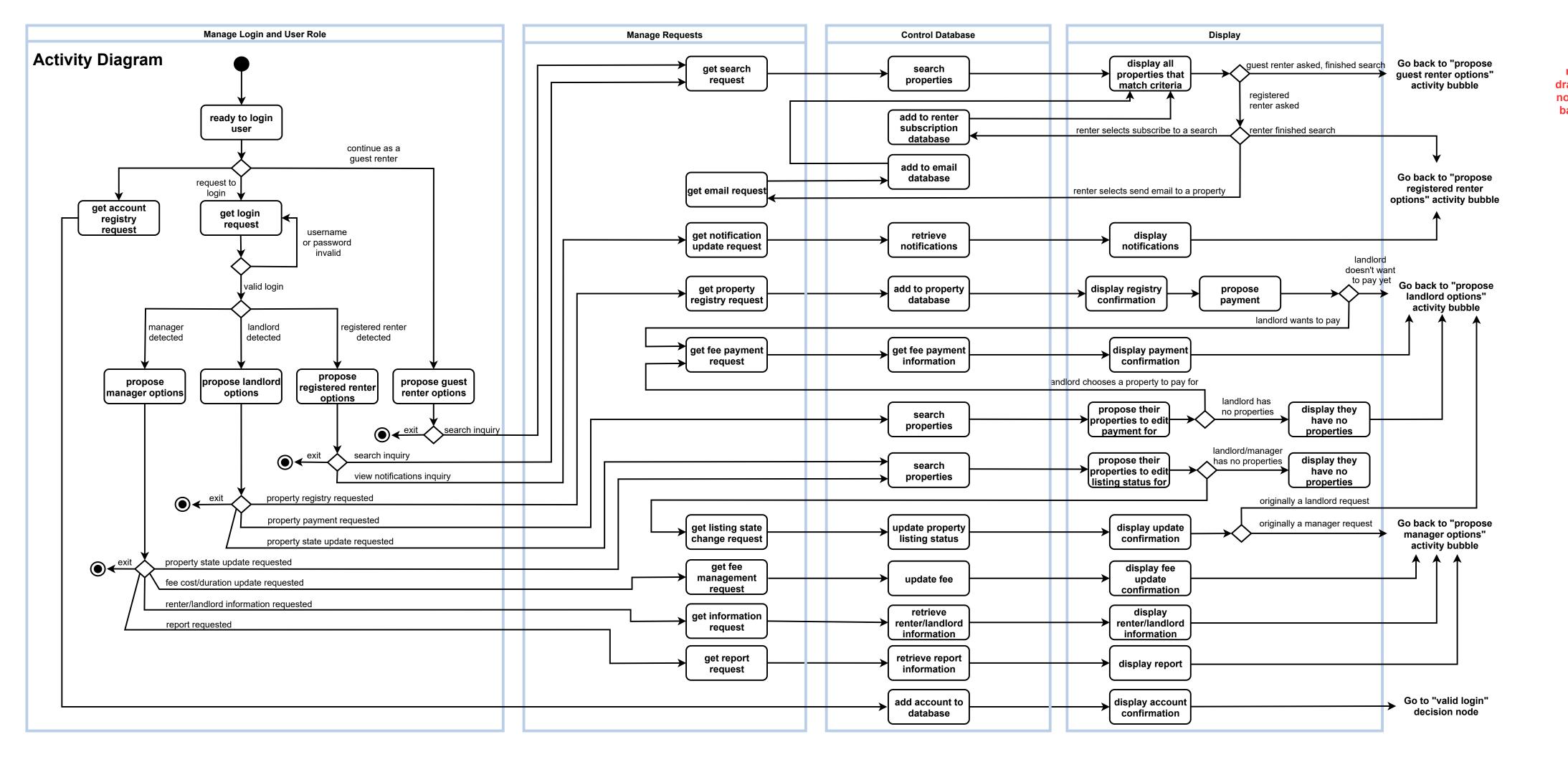
Property Package

Property

-type: String -bedrooms: int -bathrooms: int -location: String -owner: Landlord -state: String -id: String

-furnished: Boolean -Payment: Boolean

+Property(type: String, bedrooms: int, location: String, owner: Landlord, state: String, id: String, furnished: Boolean, payment: Boolean)

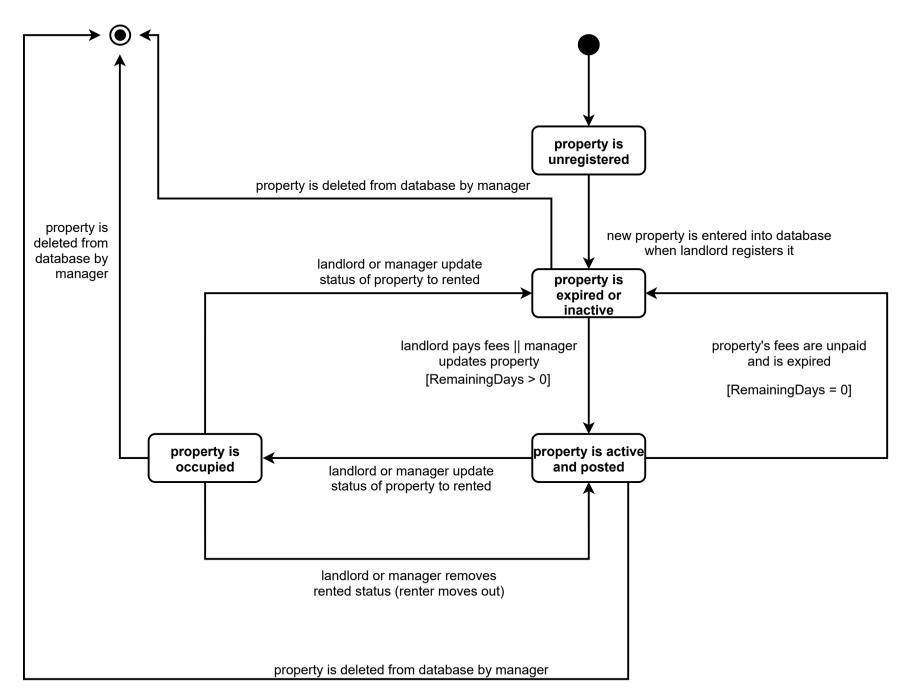


Please Note:

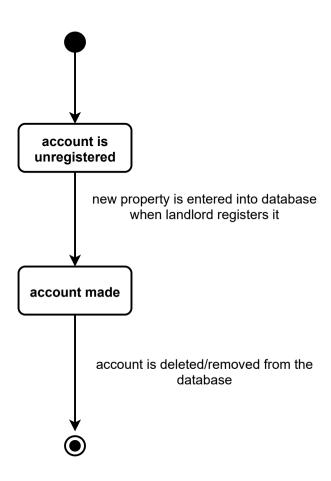
For the sake of organization, lines returning to the option menu will not be drawn to avoid clutter, and instead will be noted as going there (eg. will point to "go back to propose landlord options" rather than actually pointing to the "show landlord option" activity bubble.

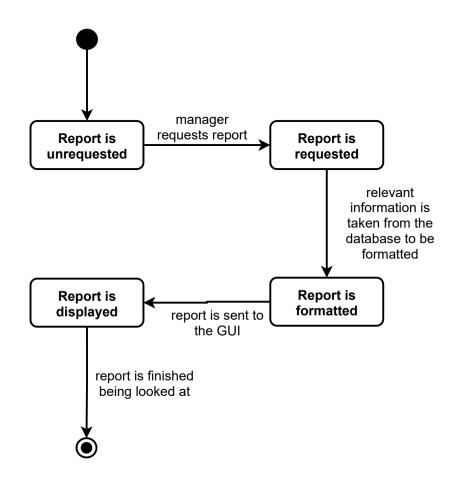
State Diagram

Property

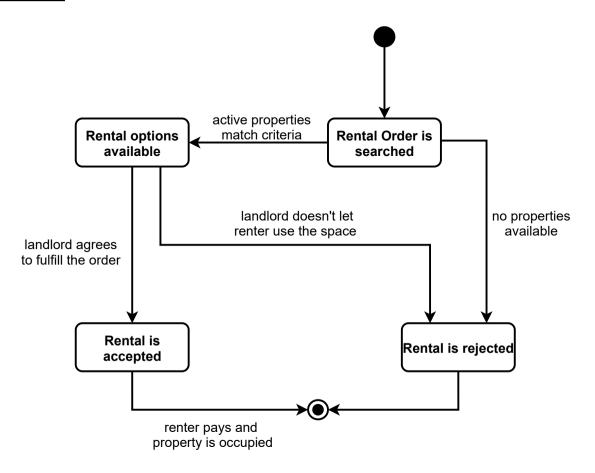


<u>Account</u> <u>Report</u>

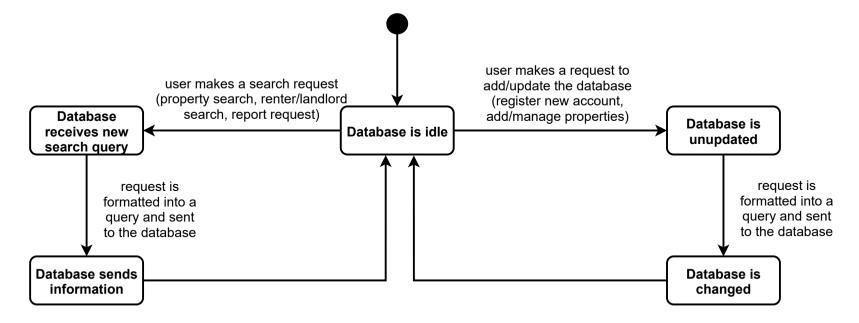




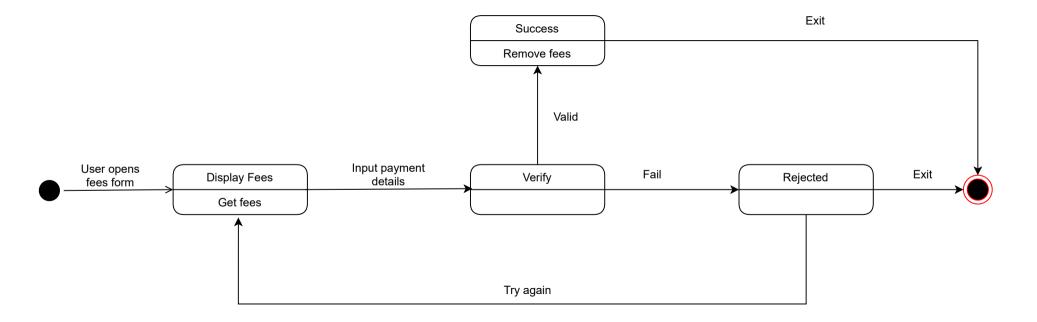
Rental Order Form

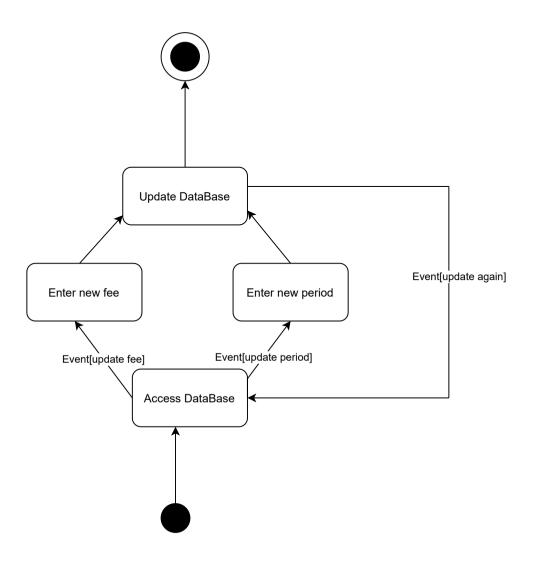


Database



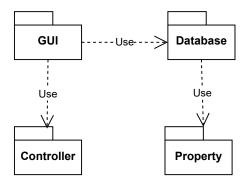
Pay Fee Form





Manager changing period fees (Use Case)

Package Diagram



Deployment Diagram

