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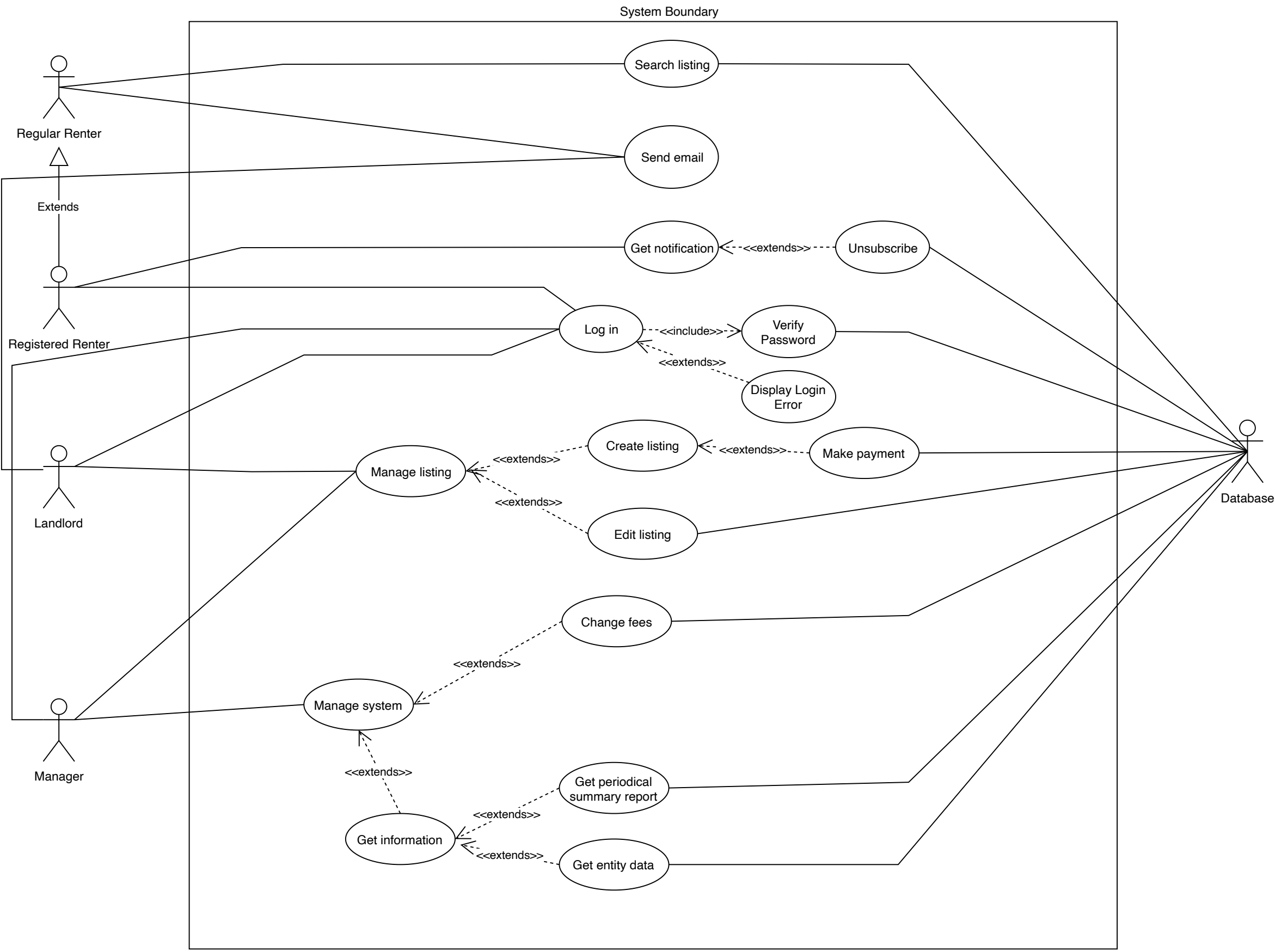
Course Name: Principles of Software Design

Course Code: ENSF 480

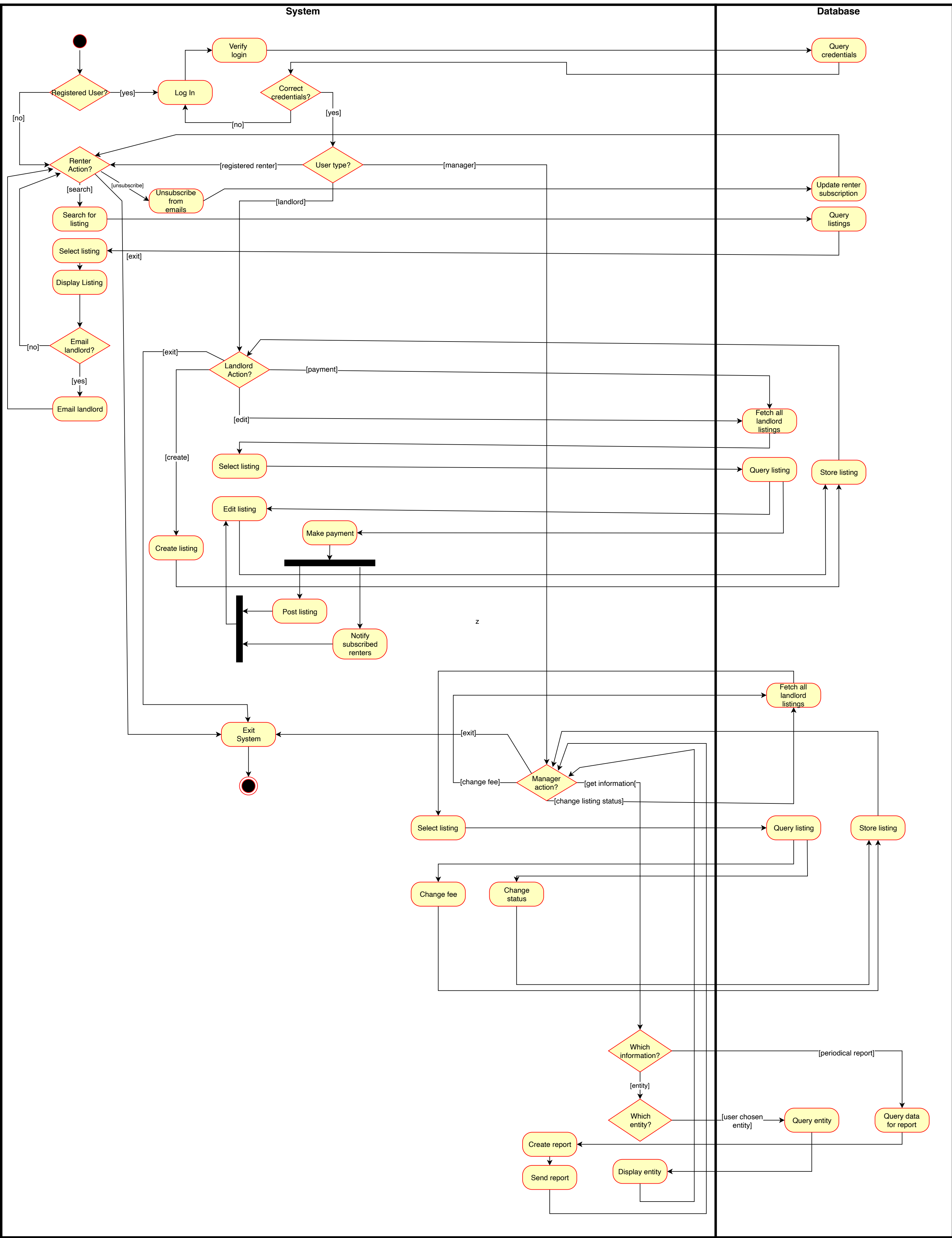
Assignment Number: Term Project Design Document

Submission Date and Time: 09/11/2019

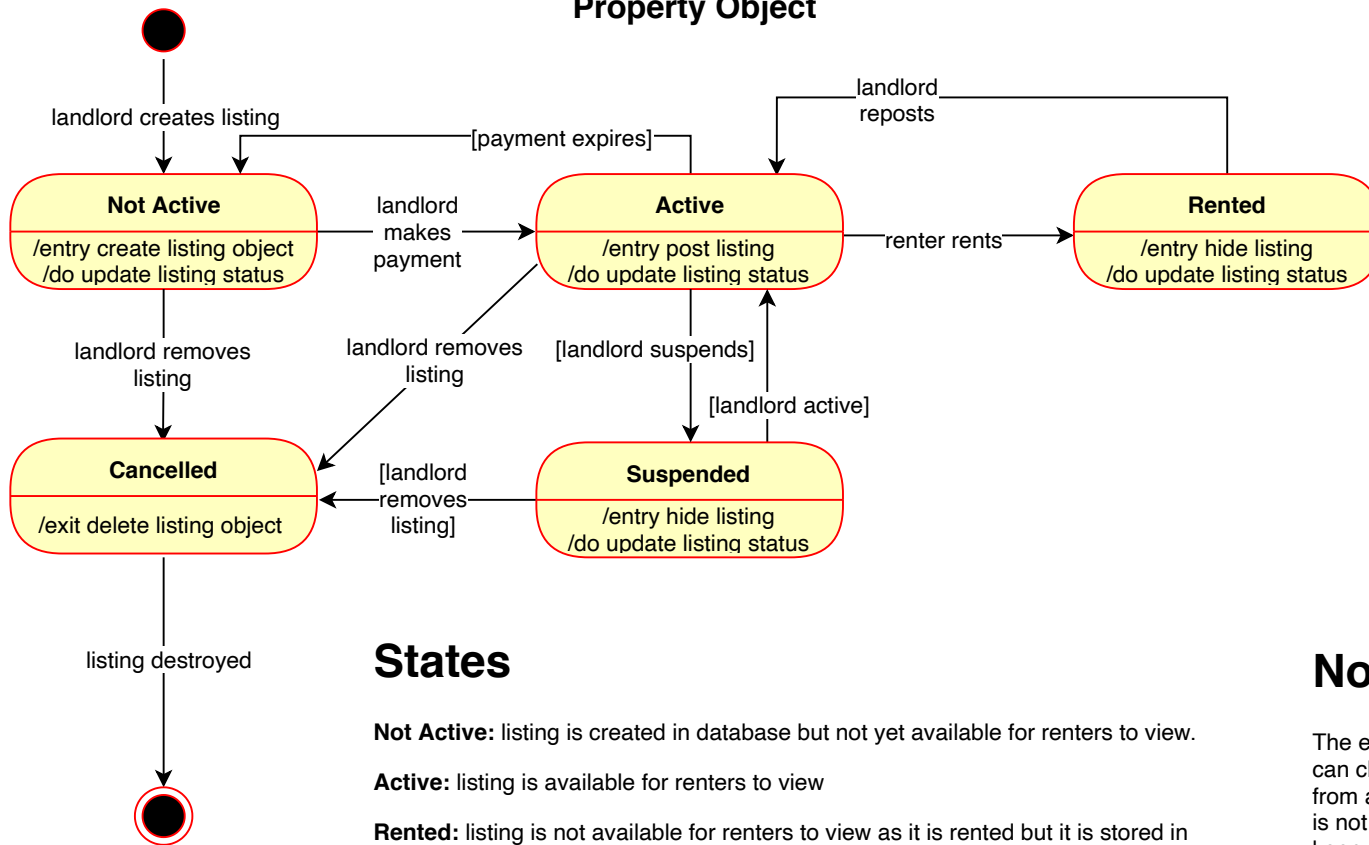
System's Use Case Diagram



System's Activity Diagram



State Transition Diagrams Property Object



States

Not Active: listing is created in database but not yet available for renters to view.

Active: listing is available for renters to view

Rented: listing is not available for renters to view as it is rented but it is stored in the database with the changed status

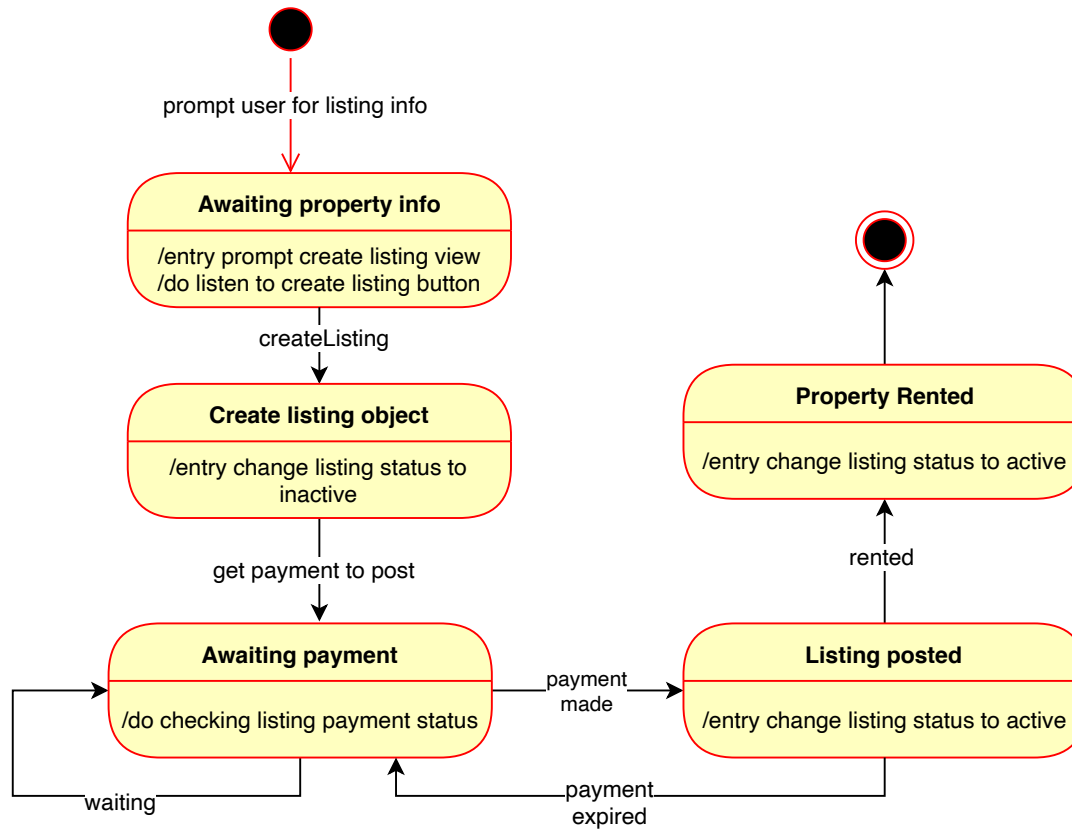
Cancelled: listing is deleted from the system

Suspended: landlord suspends the listing temporarily to hide it from renters viewing it. (ex. if landlord is the middle of signing a contract with a potential renter)

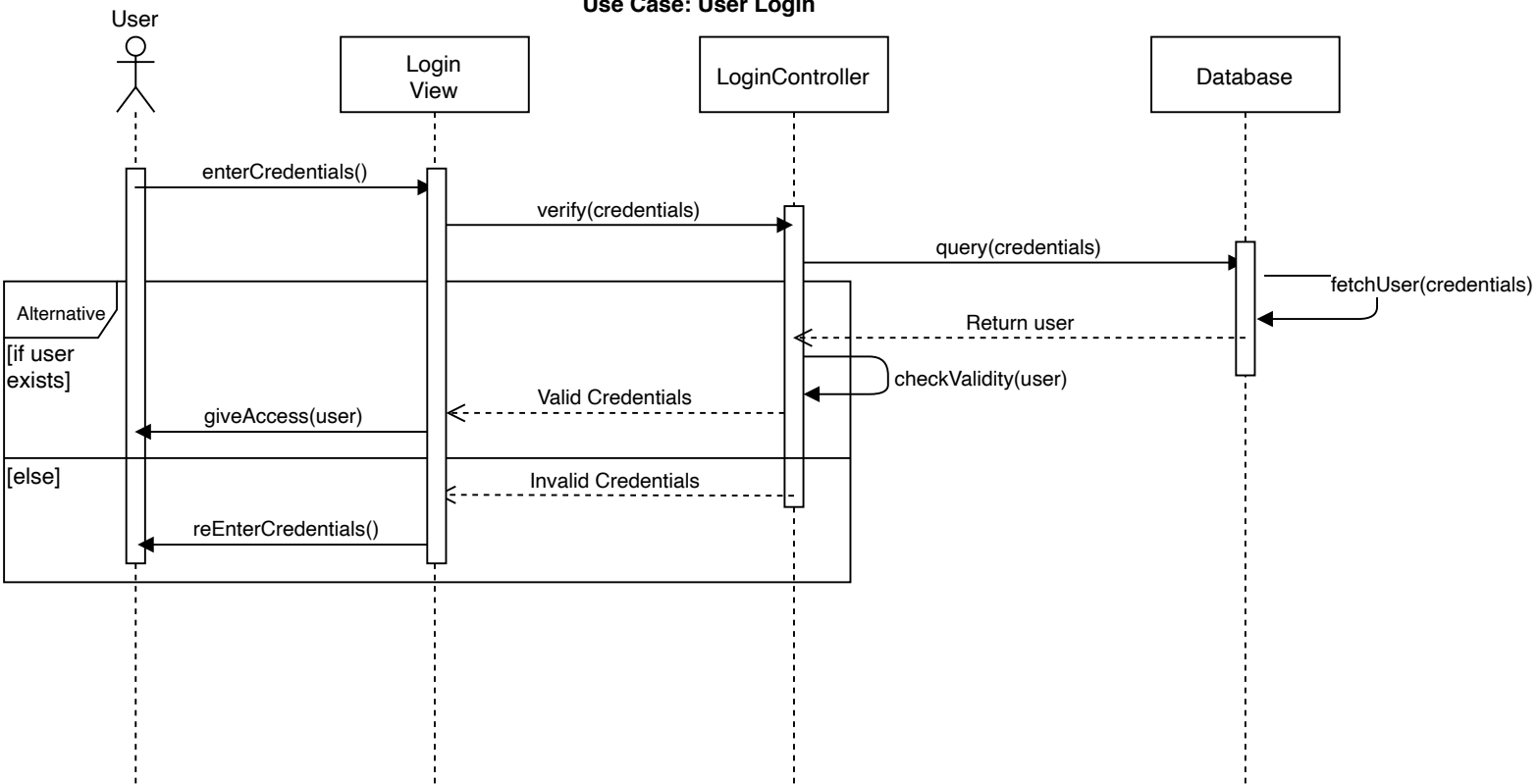
Note

The external stimuli of a manager can change a property object from any state to any state which is not shown in the diagram to keep simplicity and clarity

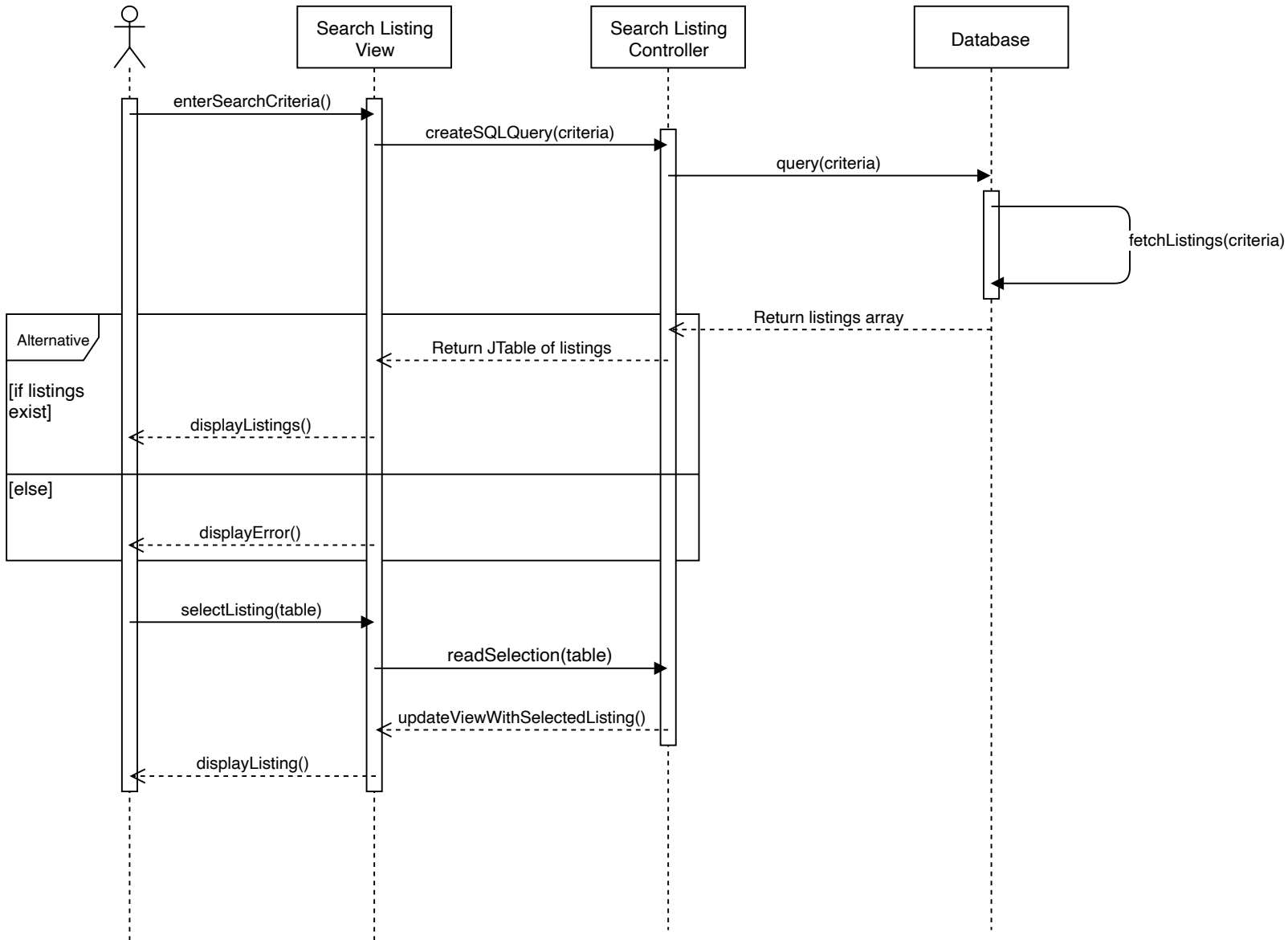
Process that landlord posts his/her property



Use Case: User Login

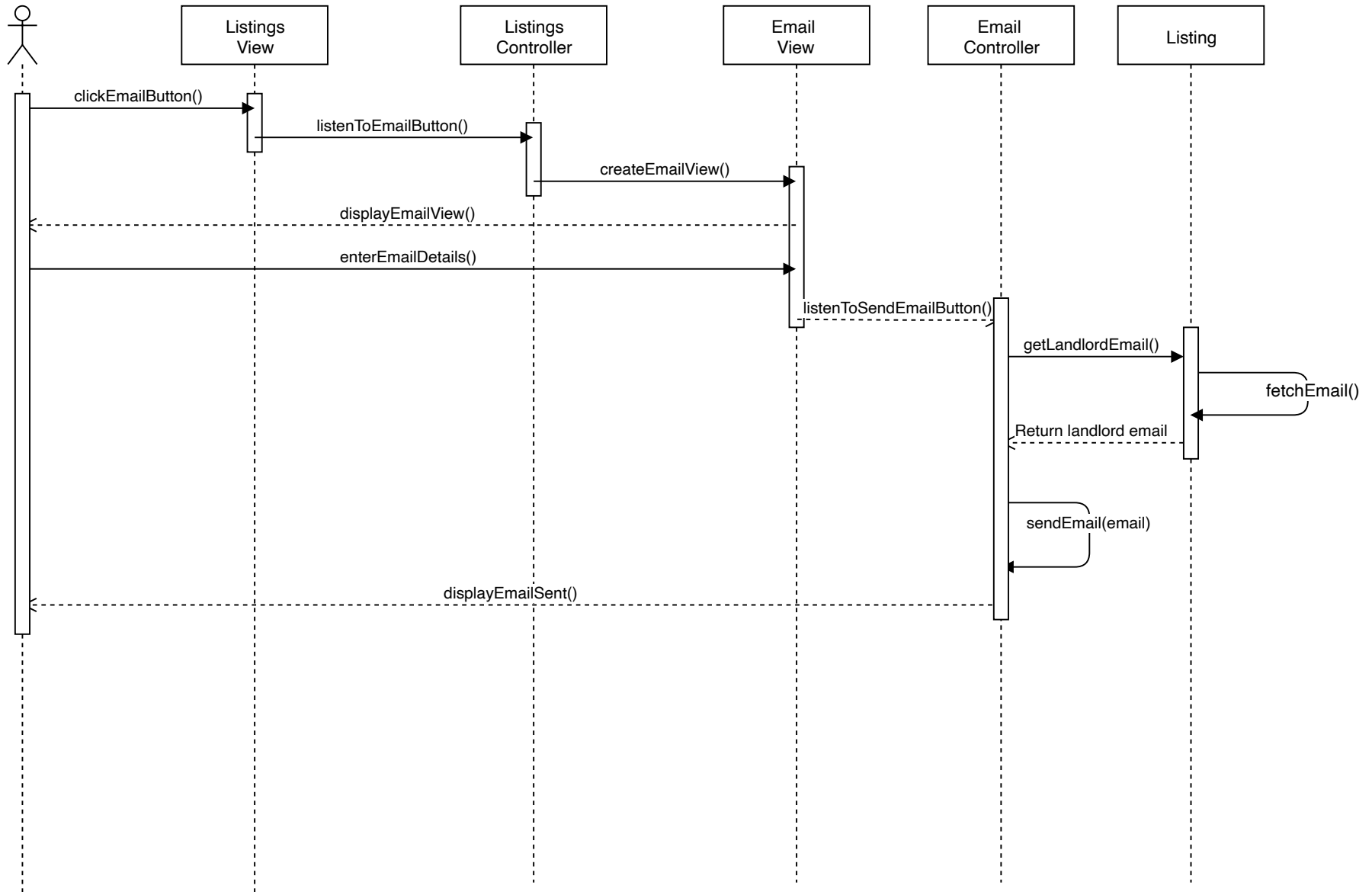


Use Case: Search Listing



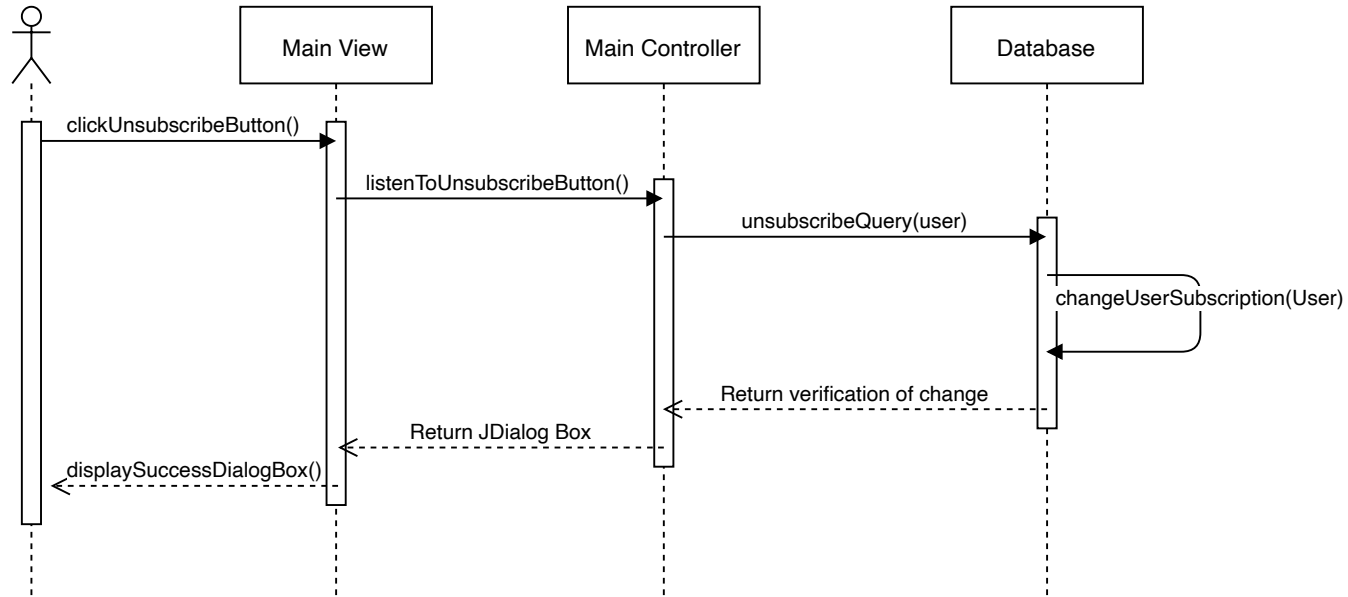
Renter

Use Case: Send Email



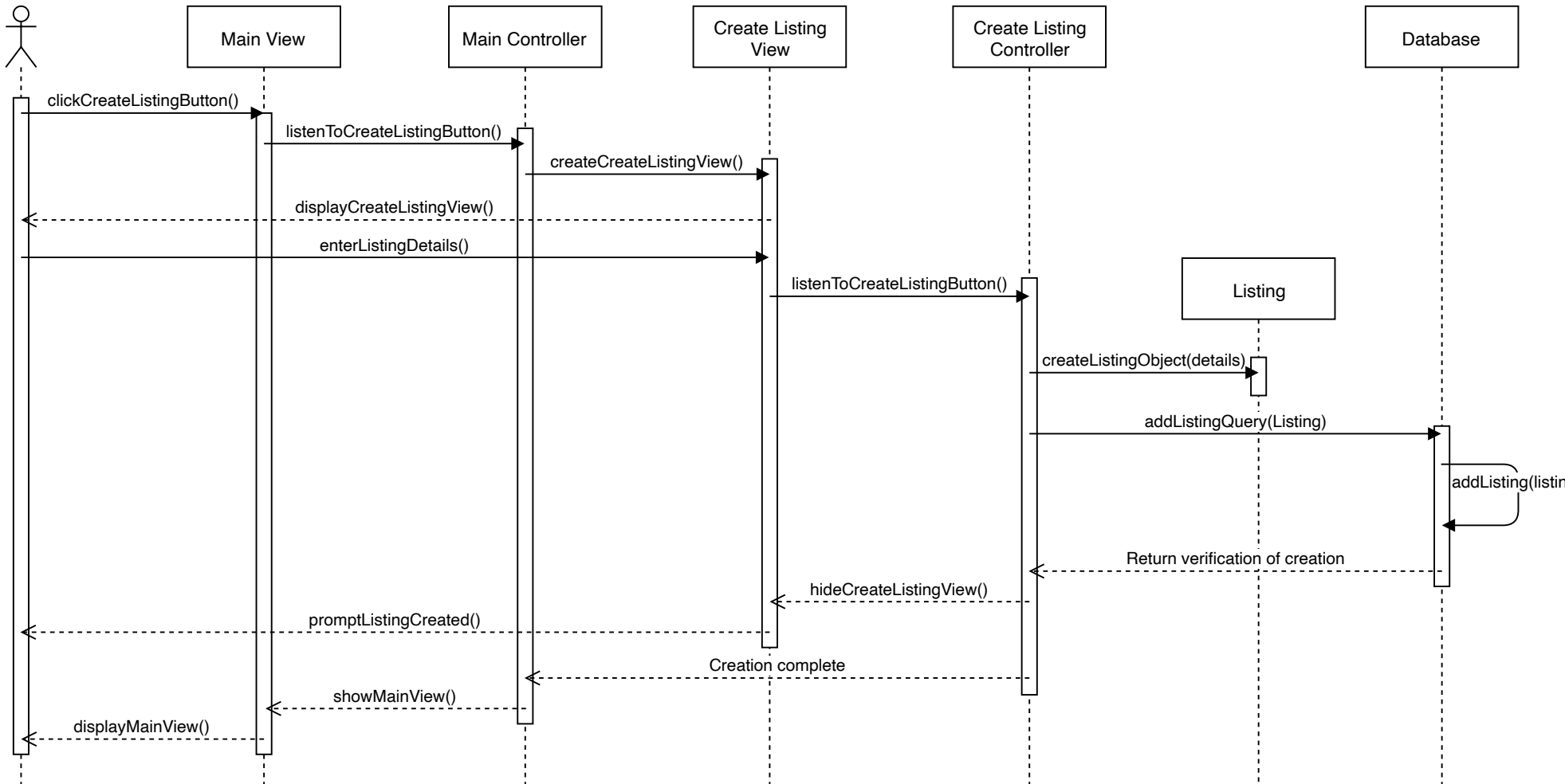
Registered
Renter

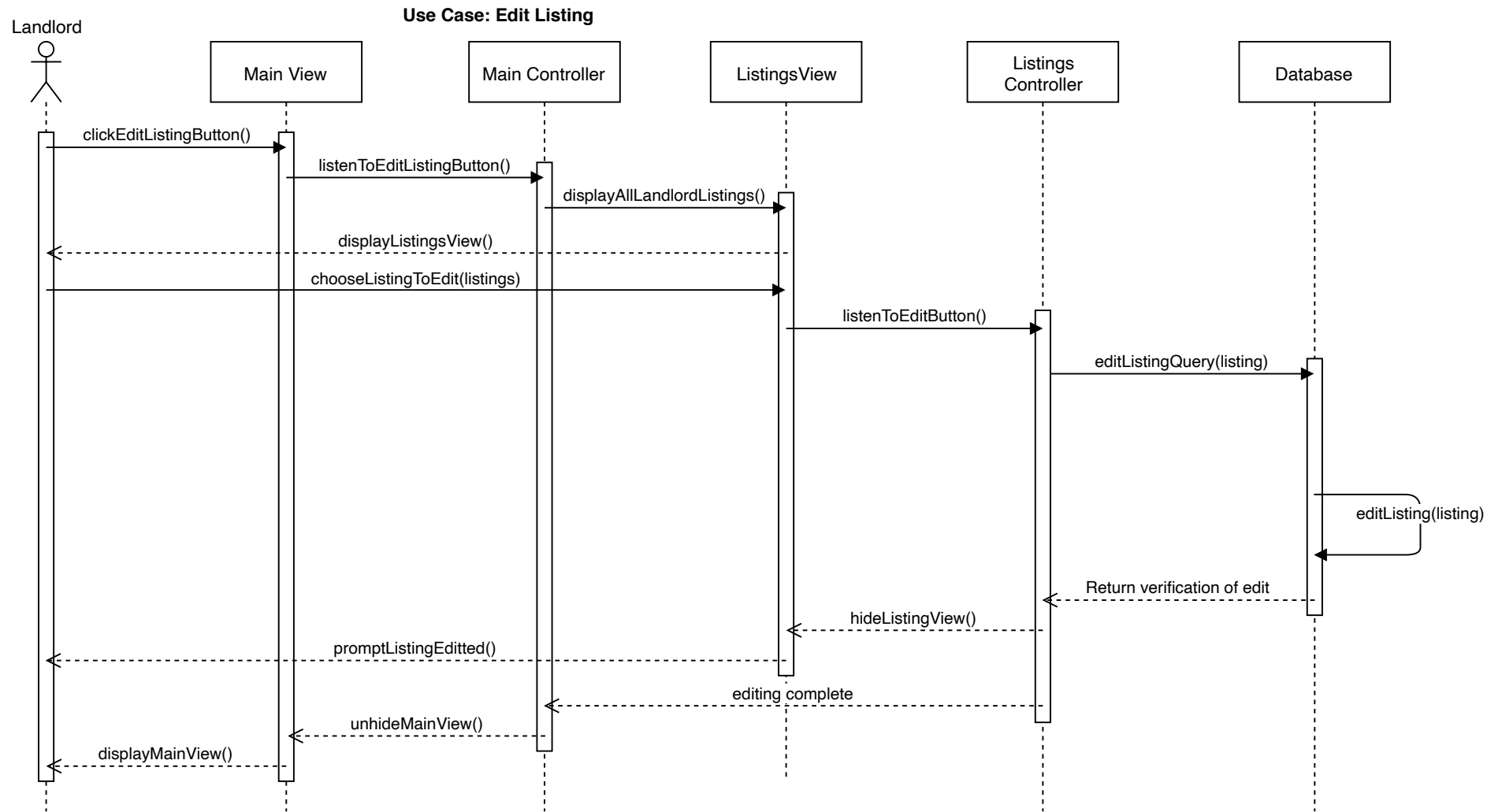
Use Case: Unsubscribe

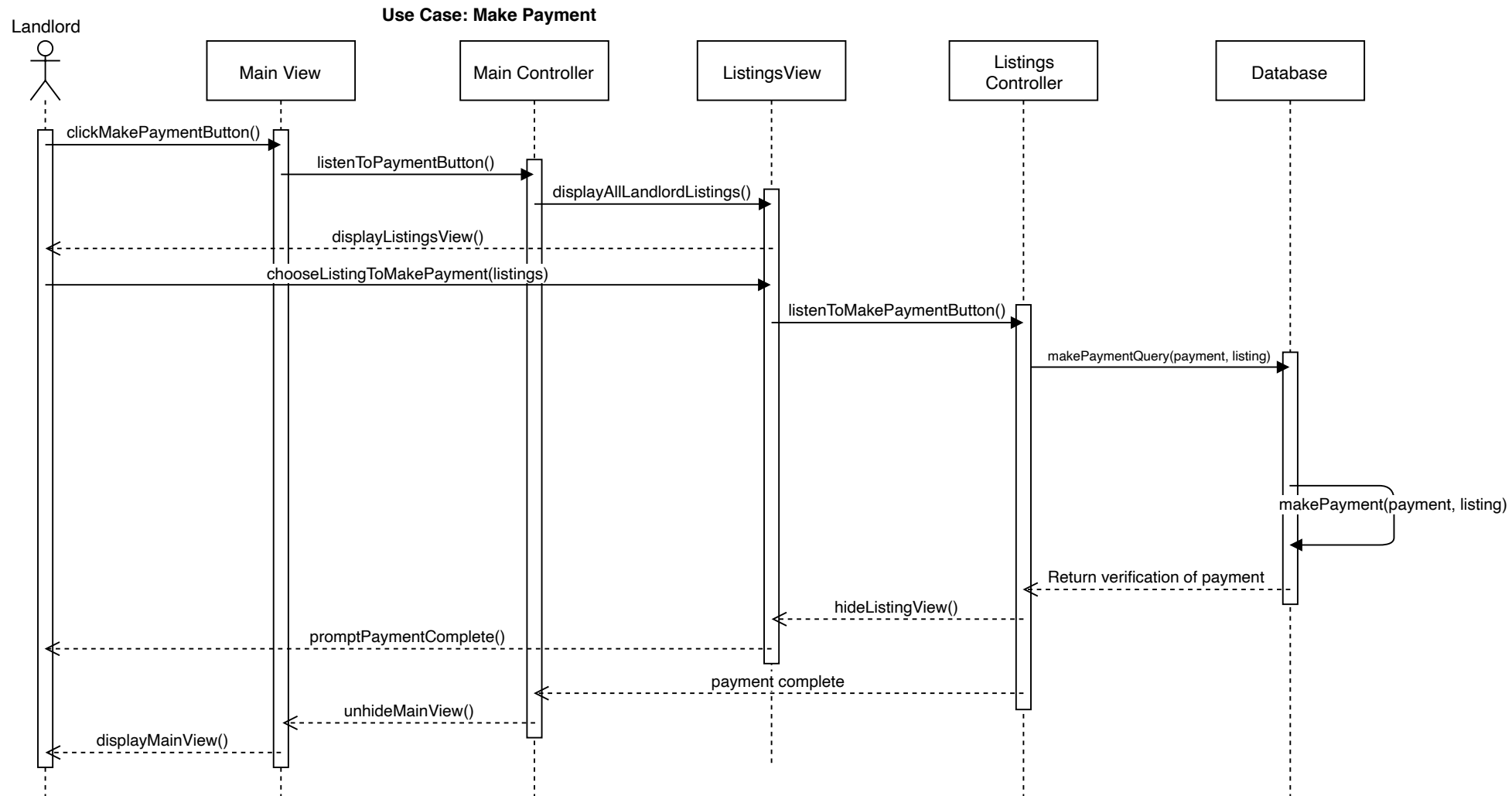


Landlord

Use Case: Create Listing

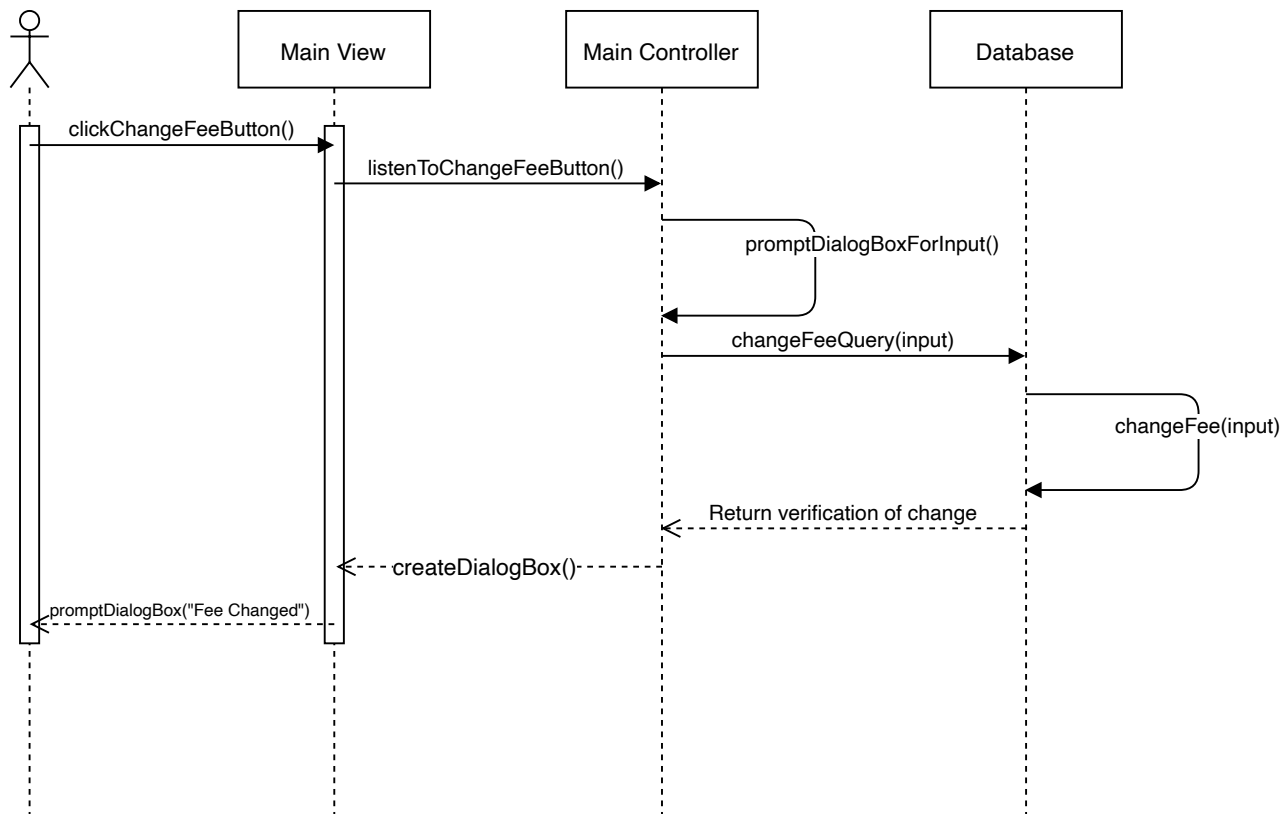






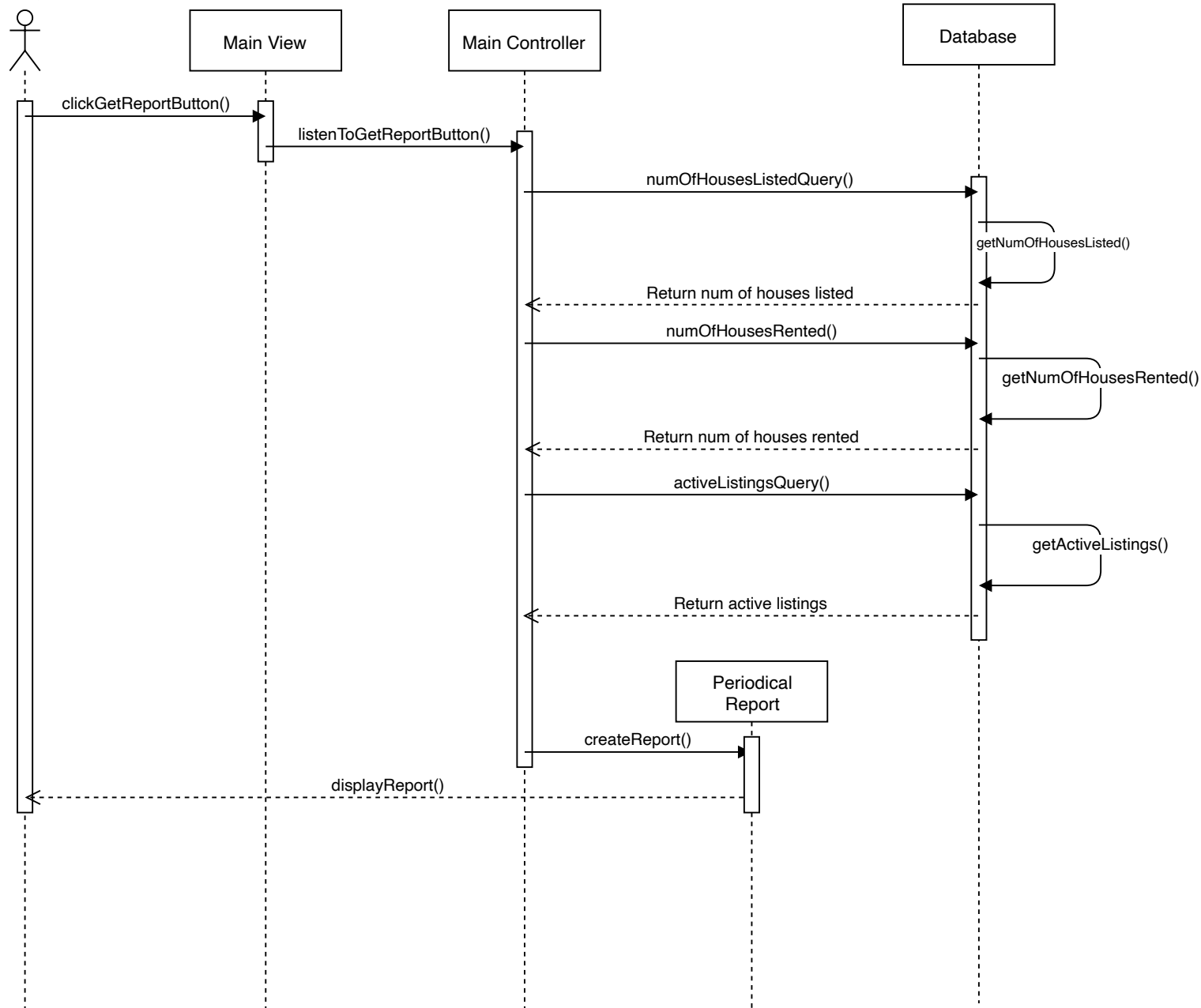
Manager

Use Case: Change fees



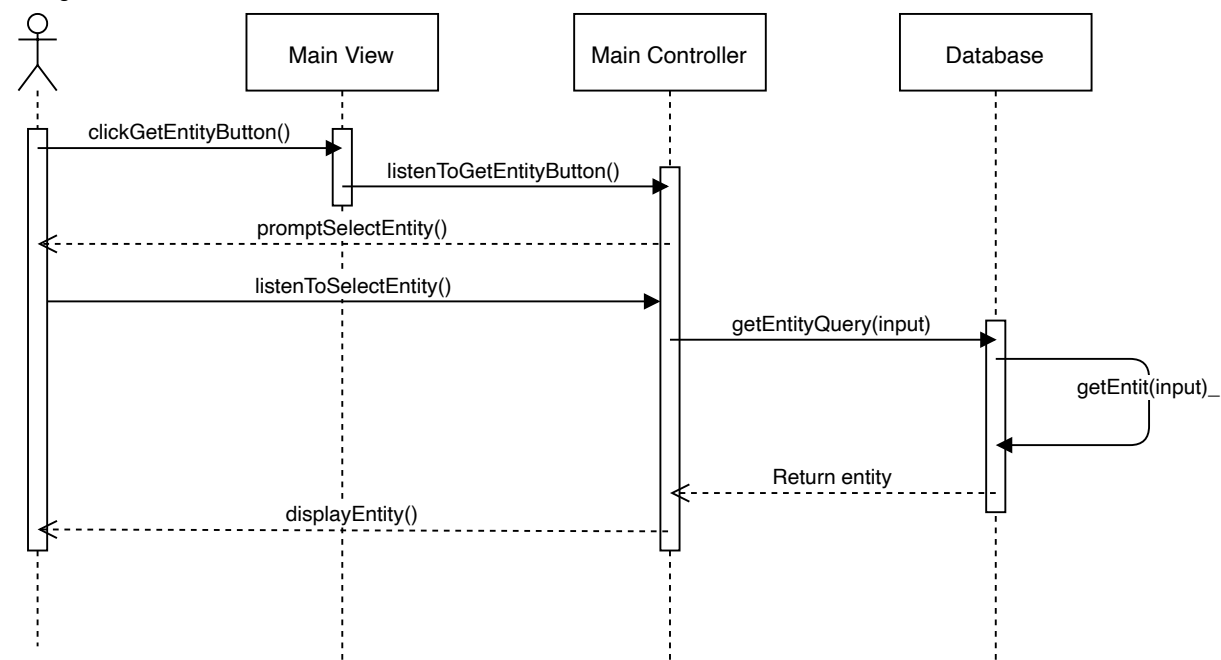
Manager

Use Case: Get periodical report

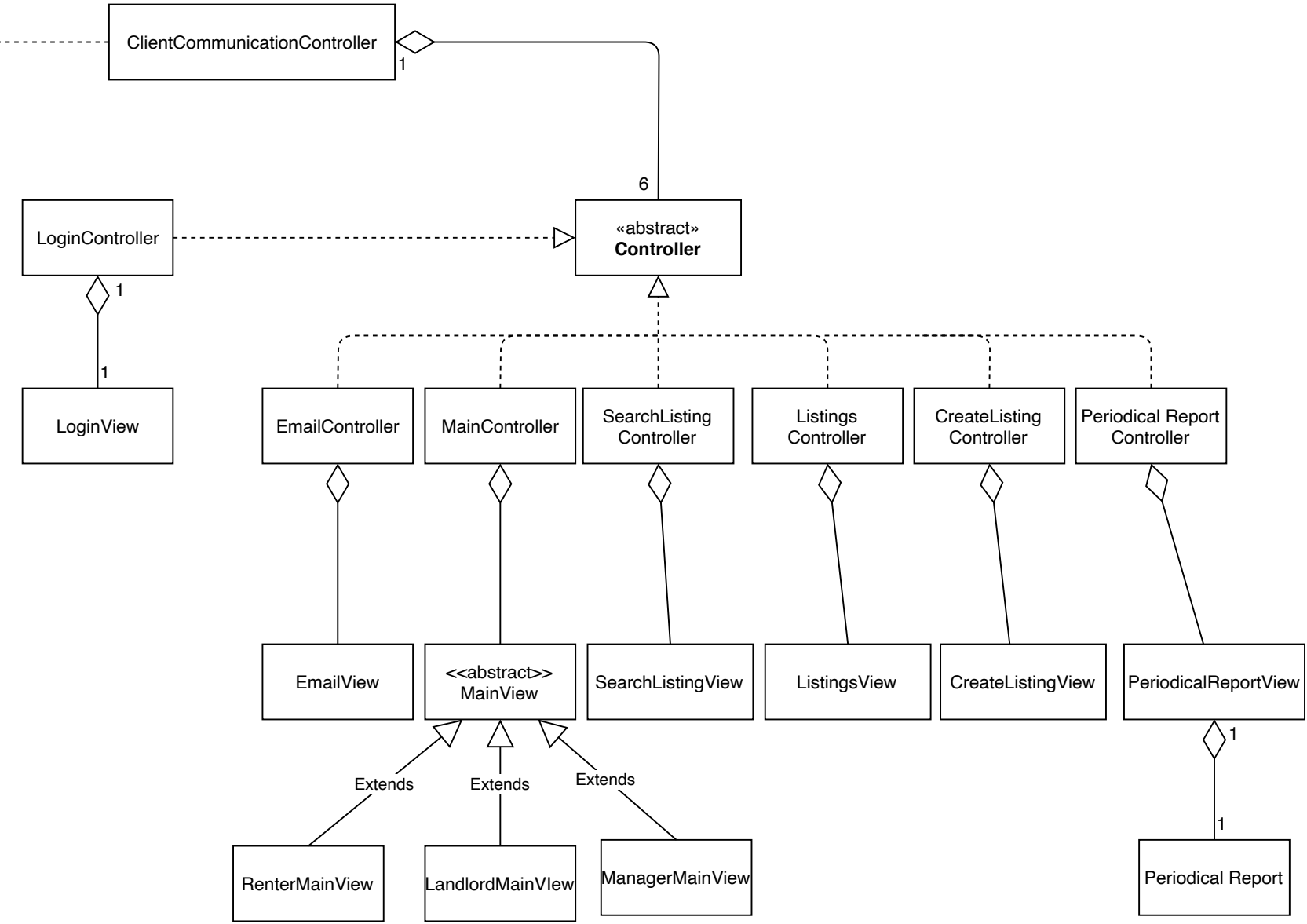
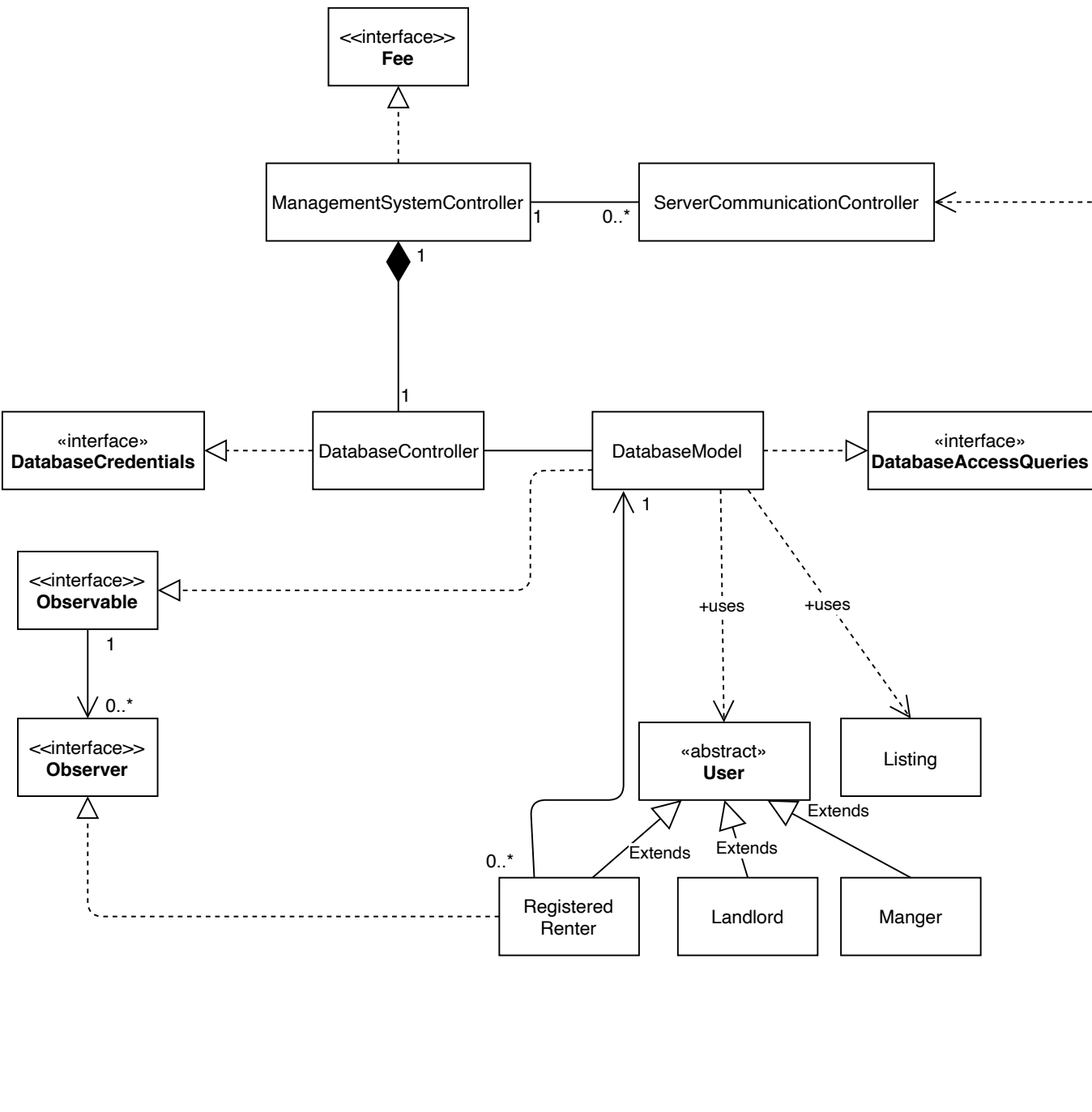


Manager

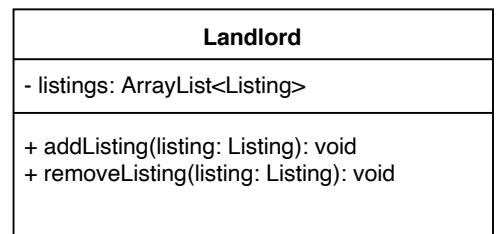
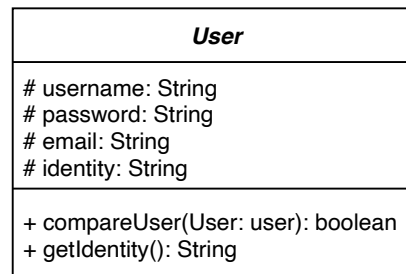
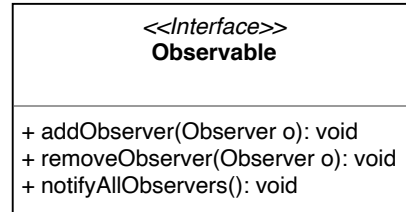
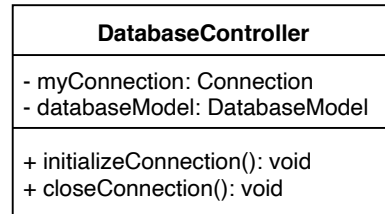
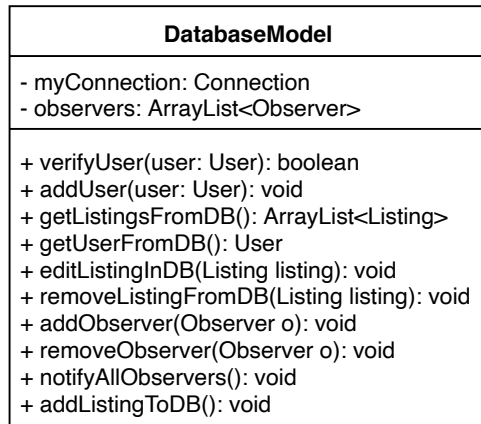
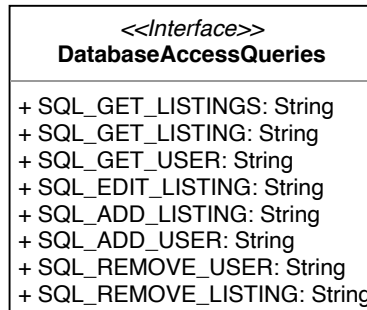
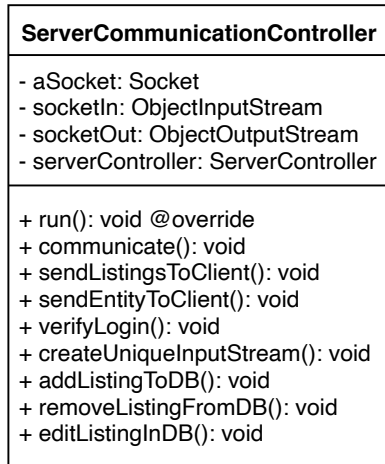
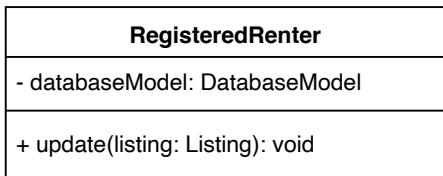
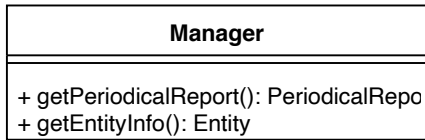
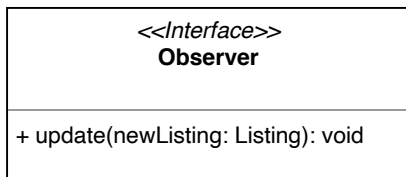
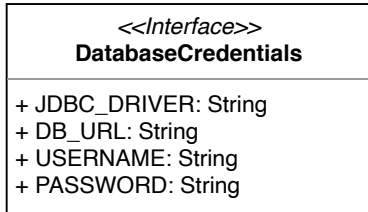
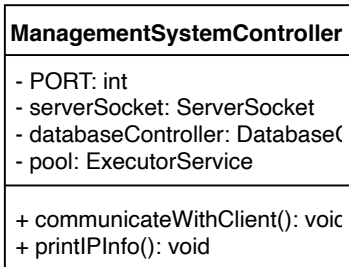
Use Case: Get entity info (entity can be renter, landlord, or property)



Relationships UML



Attributes UML



| ClientCommunicationController |
|---|
| - socketOut: ObjectOutputStream - aSocket: Socket - socketIn: ObjectInputStream - loginController: Controller - emailController: Controller - mainController: Controller - searchListingController: Controller - listingsController: Controller - createListingController: Controller |
| + main(args: String[]): void + showMainWindow(): void + showEmailView(): void + showSearchListingView(): void + showListingsView(): void + showCreateListingView(): void |

| Controller |
|--|
| # clientCommunicationController: ClientCommunicationController |

| EmailController |
|------------------------|
| - emailView: EmailView |
| + sendEmailListen(); |

| MainController |
|--|
| - mainView: MainView |
| + searchListingListen(): void + editListingListen(): void + unsubscribeListen(): void + createListingListen(): void + getPeriodicalReportListen(): void + changeFeeListen(); + viewEntityListen(); |

| LoginController |
|---|
| - loginView: LoginView - verified: boolean - user: User |
| + loginListen(): void + isVerified(): boolean |

| SearchListingController |
|--|
| - searchListingView: SearchListingView |
| + searchListingListen(); |

| ListingsController |
|------------------------------|
| - listingsView: ListingsView |
| + selectListingListen(); |

| PeriodicalReportView |
|-------------------------------------|
| - components: Components |
| + display(): void + hide(): void |

| PeriodicalReportController |
|--|
| - periodicalReportView: PeriodicalReportView |
| + createReportListen(); |

| PeriodicalReport |
|--|
| - numOfHousesListed: int - numOfHousesRented: int - numOfActiveListings: int - listings: ArrayList<Listing> - startDate: Date - endDate: Date |

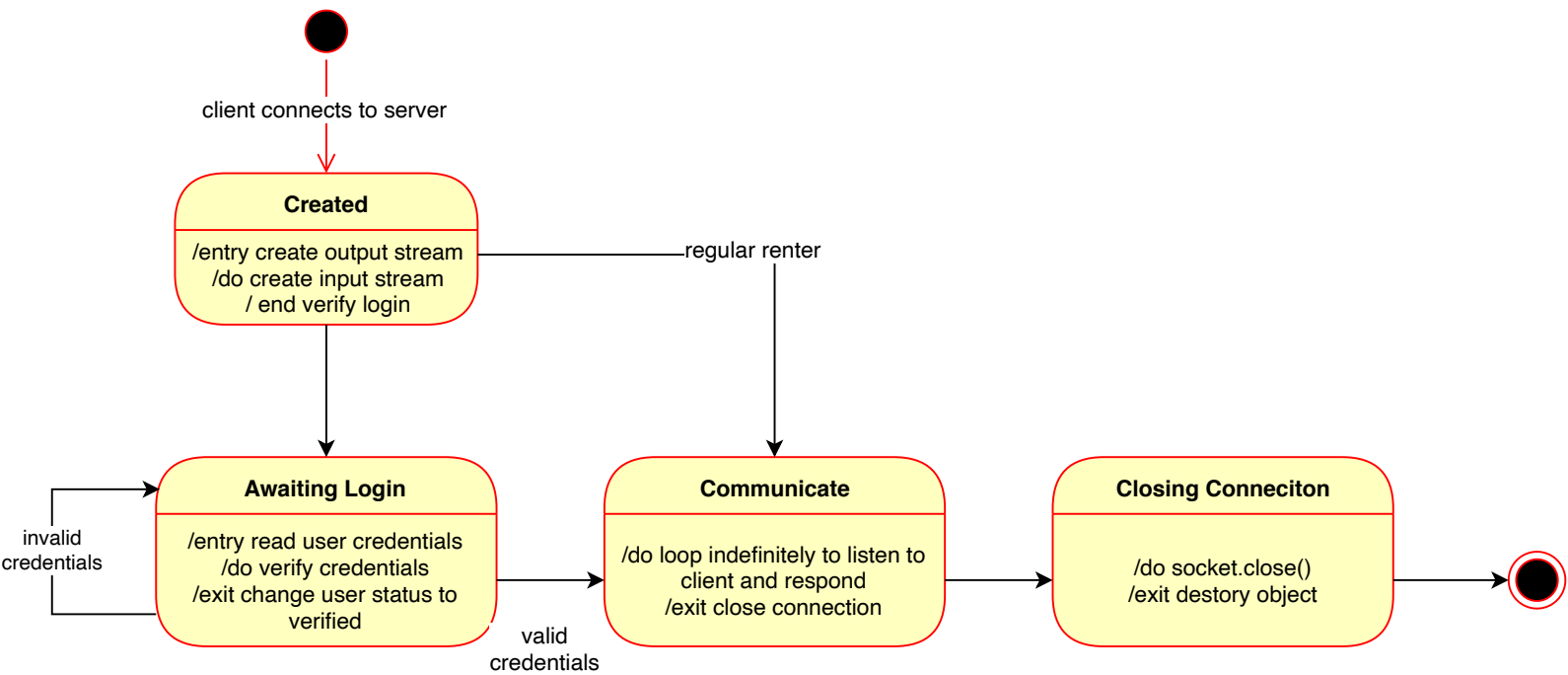
| ListingsView |
|-------------------------------------|
| - components: Components |
| + display(): void + hide(): void |

| EmailView |
|-------------------------------------|
| - components: Components |
| + display(): void + hide(): void |

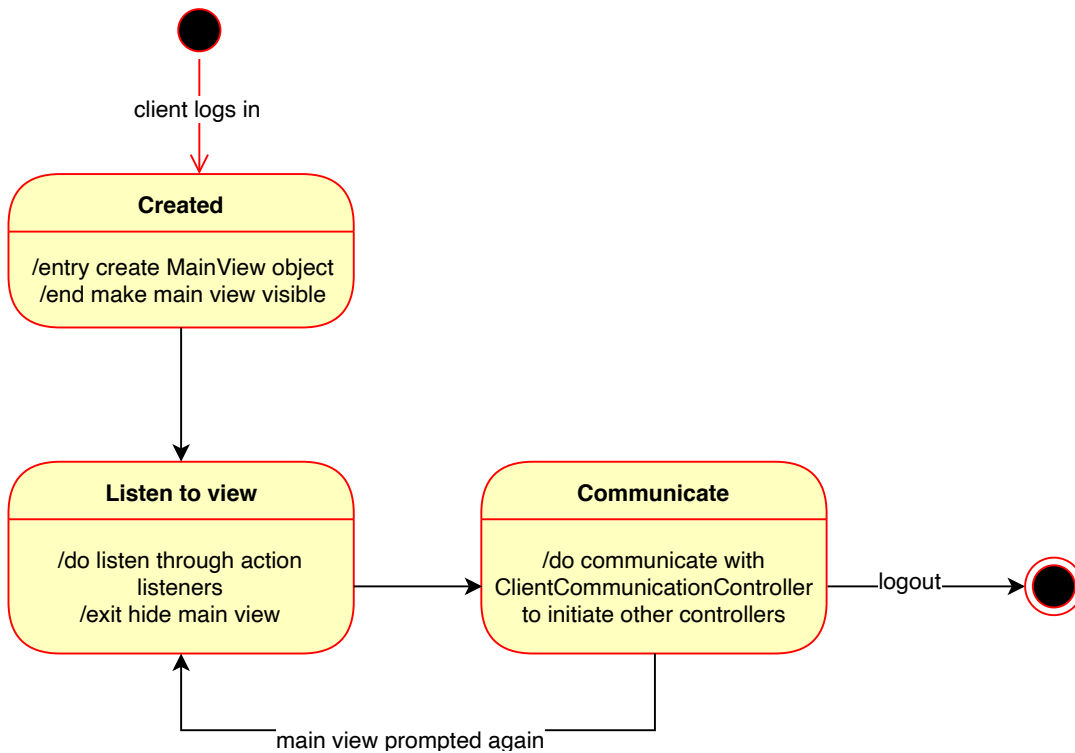
| SearchListingView |
|-------------------------------------|
| - components: Components |
| + display(): void + hide(): void |

| CreateListingView |
|-------------------------------------|
| - components: Components |
| + display(): void + hide(): void |

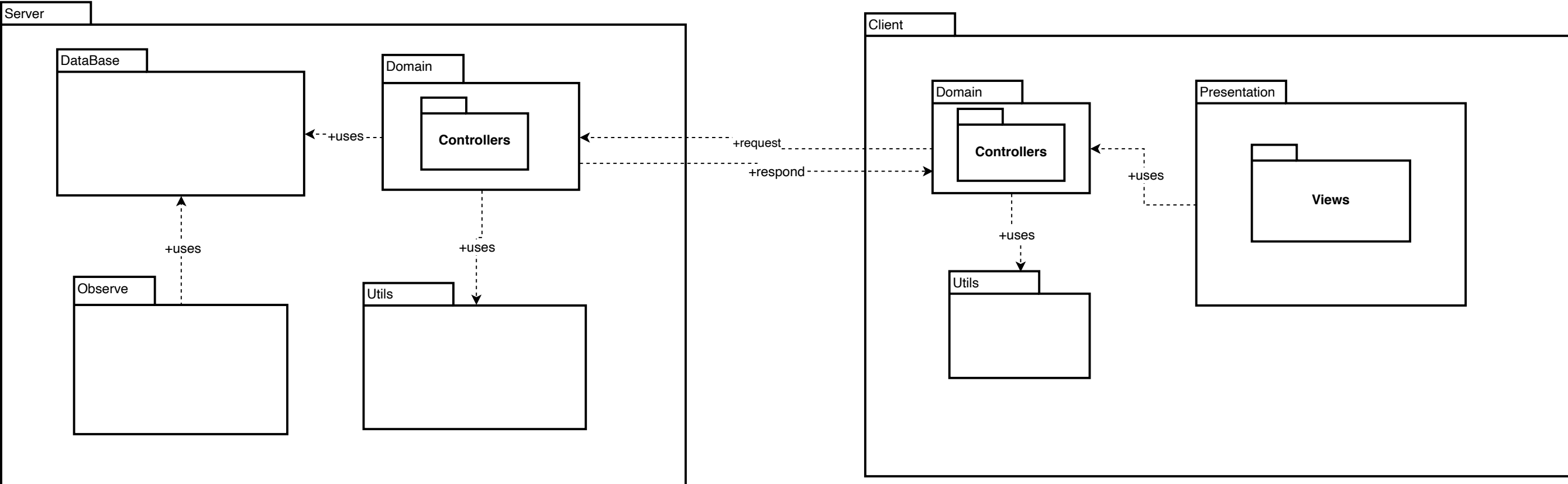
ServerCommunicationController State Diagram



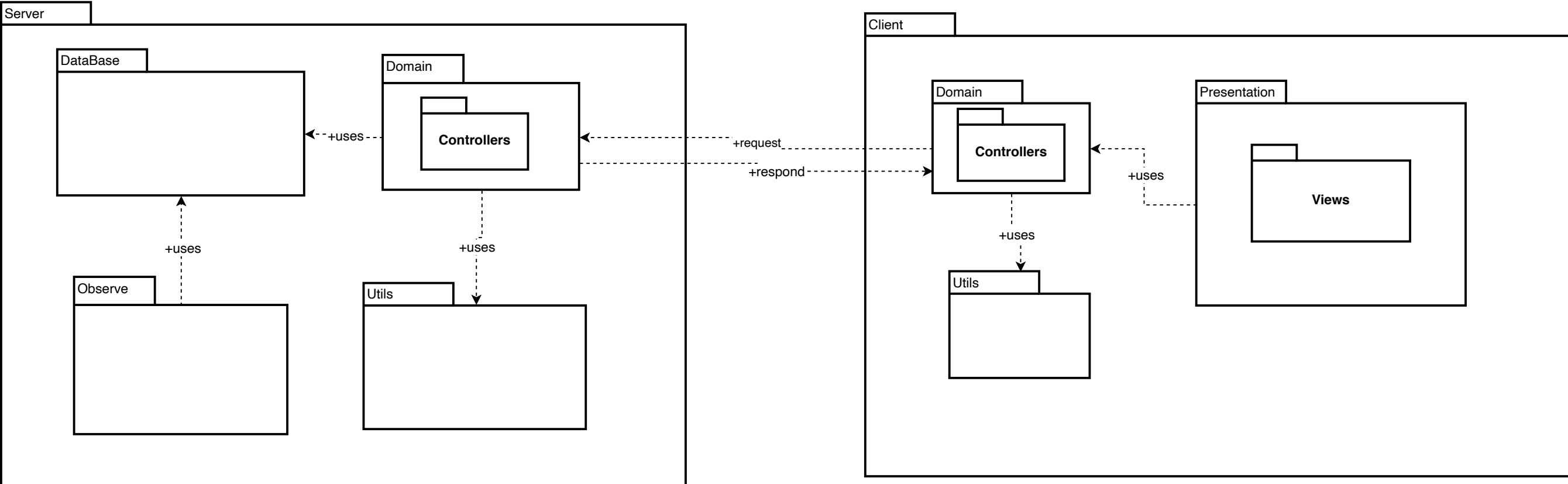
MainController State Diagram



Package Diagram



Package Diagram



Deployment Diagram

