Term Project Design Documentation
Group Number: 19
Group Members: Tyler Tran, Tommy Tran, Noel Thomas, Sina Tavakol Moghaddam
Course: ENSF 480
Instruction: Dr. Moussavi
Submission Date: November 29, 2021

Contents

1. System Use Case Diagram 3

Figure 1.1: System Use Case Diagram 3

2. System Sequence Diagrams 4

Figure 2.1: Account Registration & Login Sequence Diagram 4

Figure 2.2: Register Property Sequence Diagram 5

Figure 2.3: Post Property Sequence Diagram 6

Figure 2.4: View Filtered Properties Sequence Diagram 7

Figure 2.5: Send Email Sequence Diagram 8

Figure 2.6: Generate Summary Sequence Diagram 8

3. Class Specification Diagrams 9

Figure 3.1: Class Relationship Diagram 9

Figure 3.2.1: Interface Specification 9

Figure 3.2.2: Interaction Classes Specification 10

Figure 3.2.3: System Controller Class Specification 10

Figure 3.2.4: Entity Class Specification 11

Figure 3.3.1: Property Class State Transition Diagram 11

Figure 3.3.2: Database State Transition Diagram 12

Figure 3.3.3: Email State Transition Diagram 12

Figure 3.3.4 Input State Transition Diagram 13

4. System Class Activity Diagram 14

Figure 4.1: Complete System Activity Diagram 14

5. Package Diagram 15

Figure 5.1: Package Diagram 15

6. Deployment Diagram 16

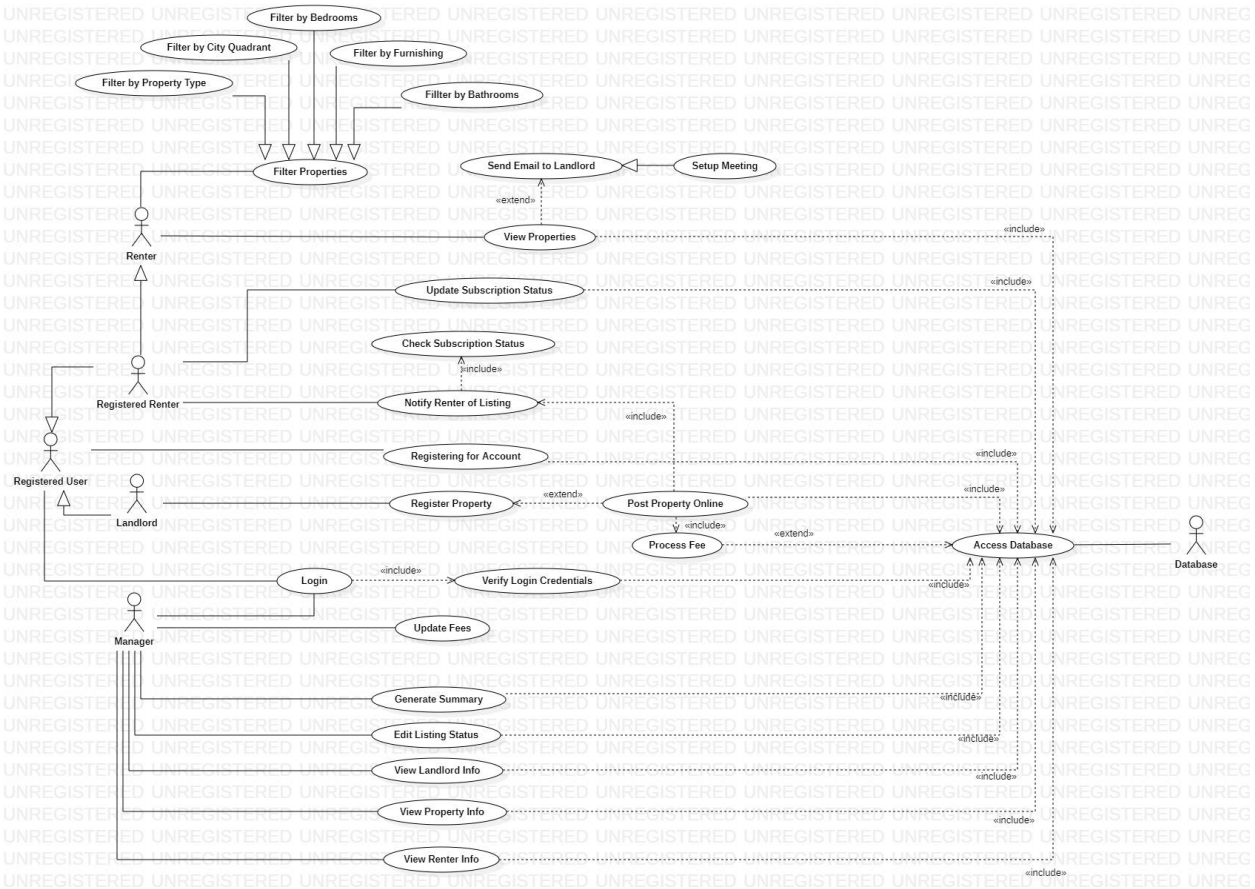
Figure 6.1: Deployment Diagram 16

7. Work Distribution 17

Figure 7.1 Work Distribution Table 17

1. System Use Case Diagram

Figure 1.1: System Use Case Diagram



2. System Sequence Diagrams

Figure 2.1: Account Registration & Login Sequence Diagram

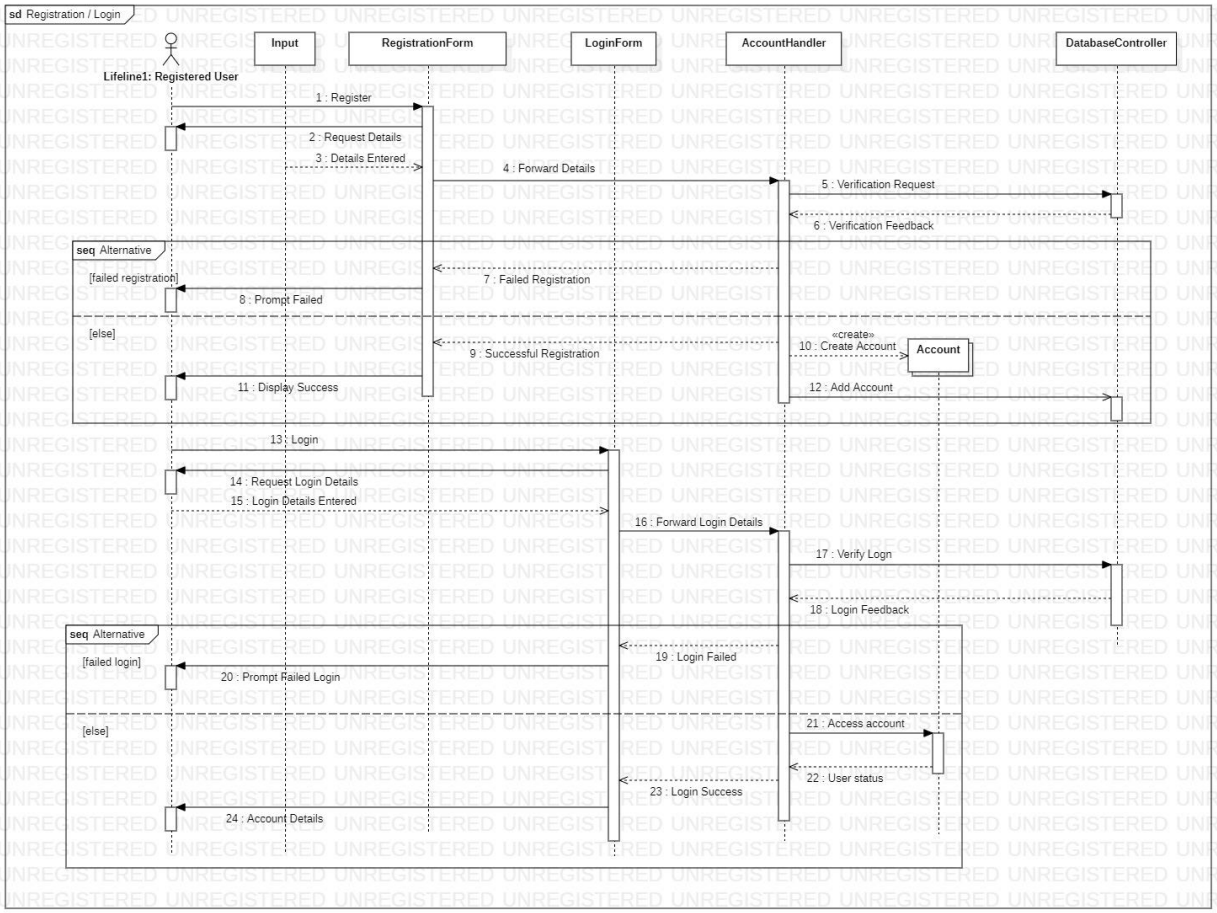


Figure 2.2: Register Property Sequence Diagram

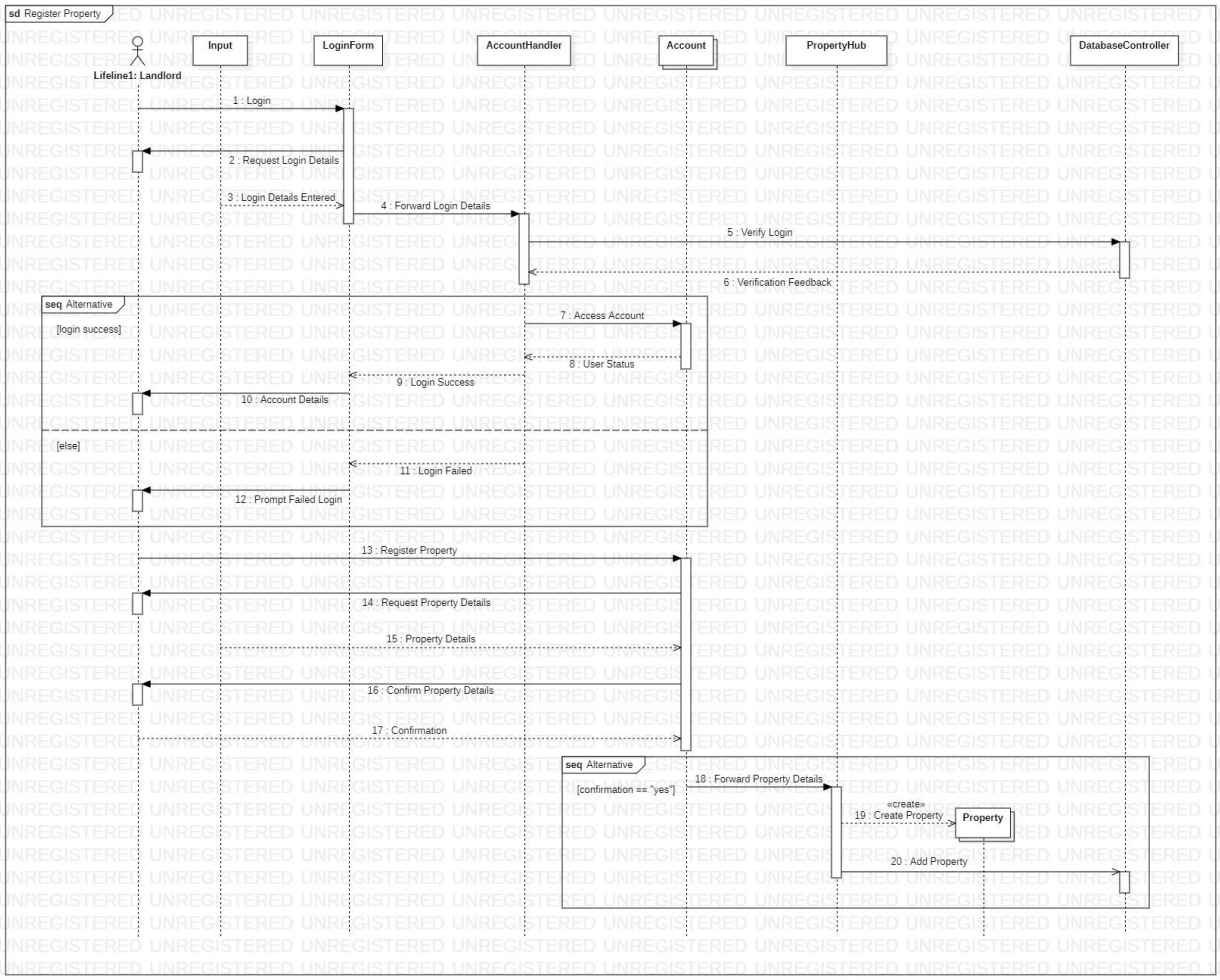


Figure 2.3: Post Property Sequence Diagram

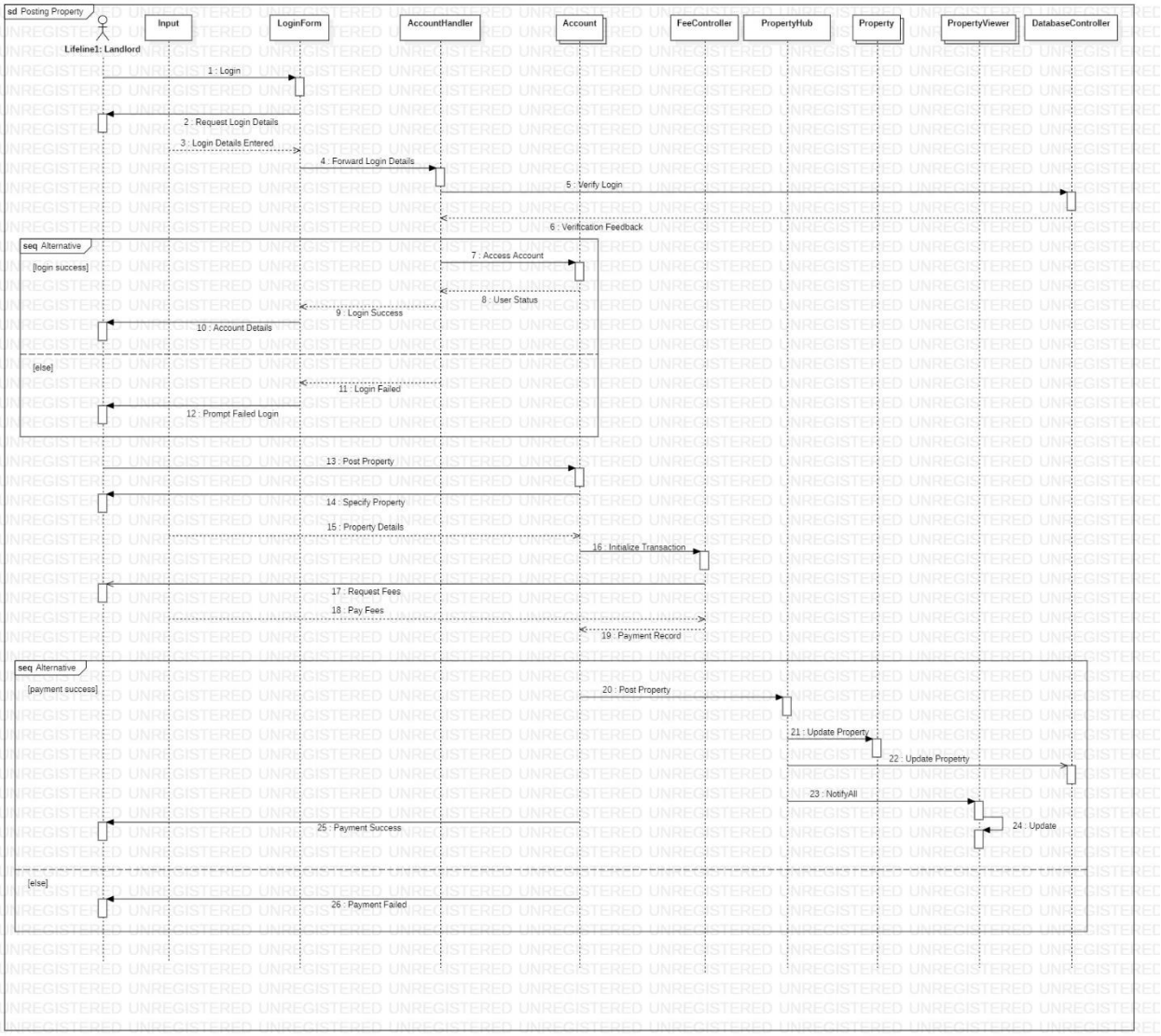


Figure 2.4: View Filtered Properties Sequence Diagram

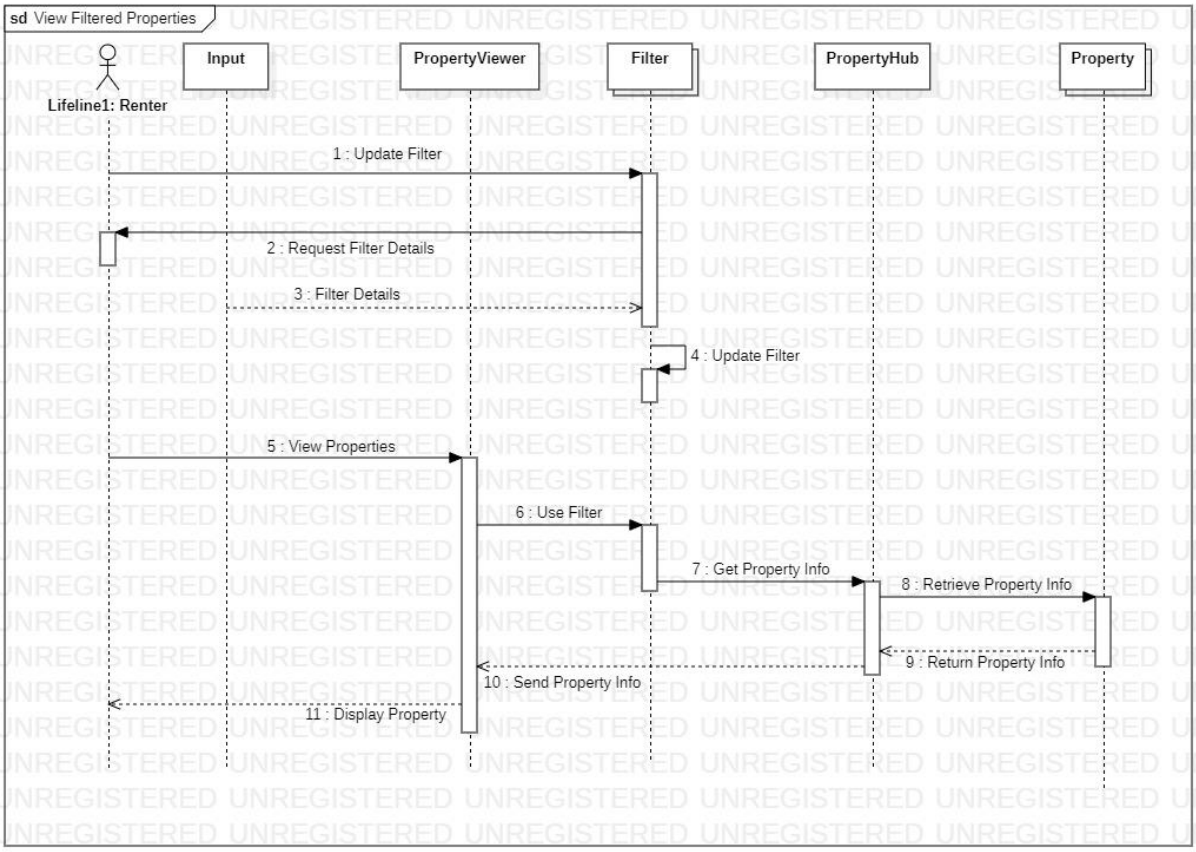


Figure 2.5: Send Email Sequence Diagram

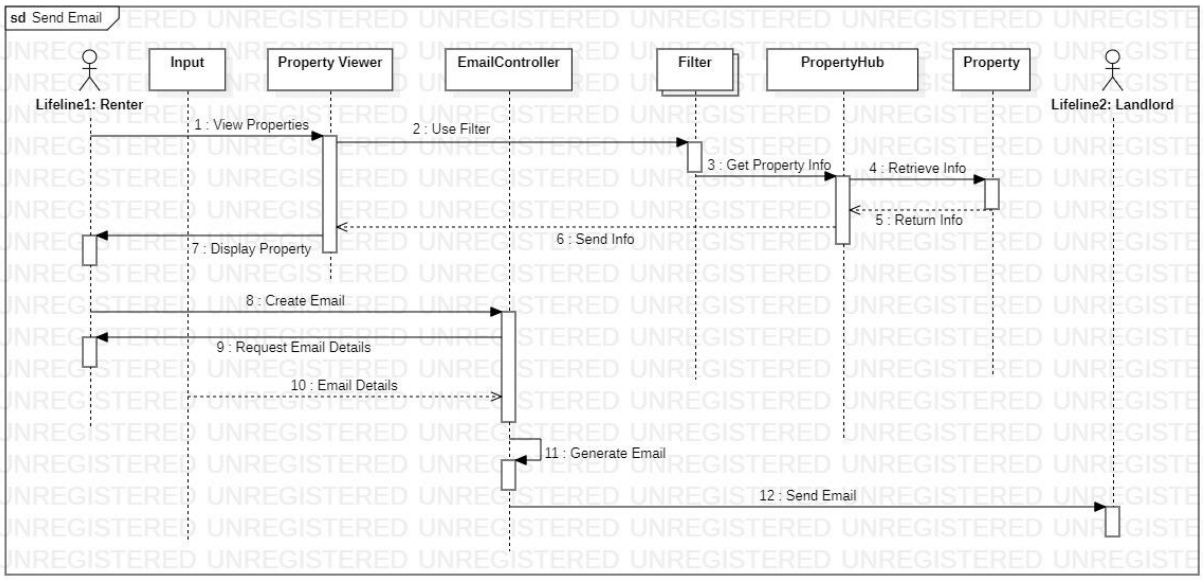
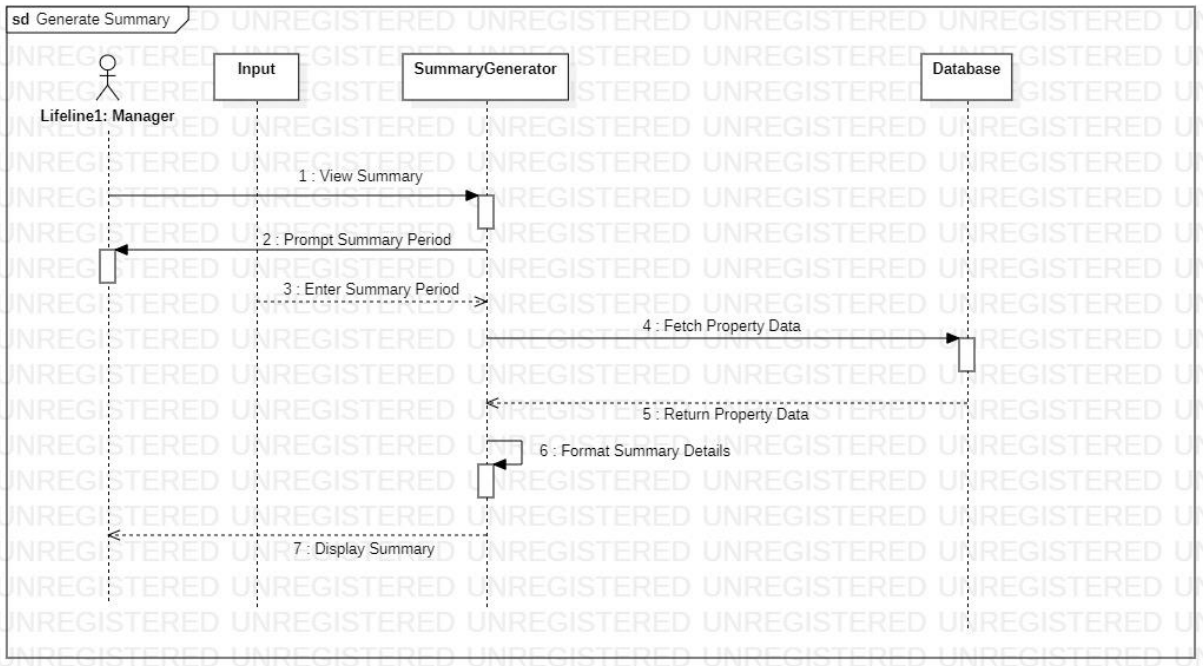


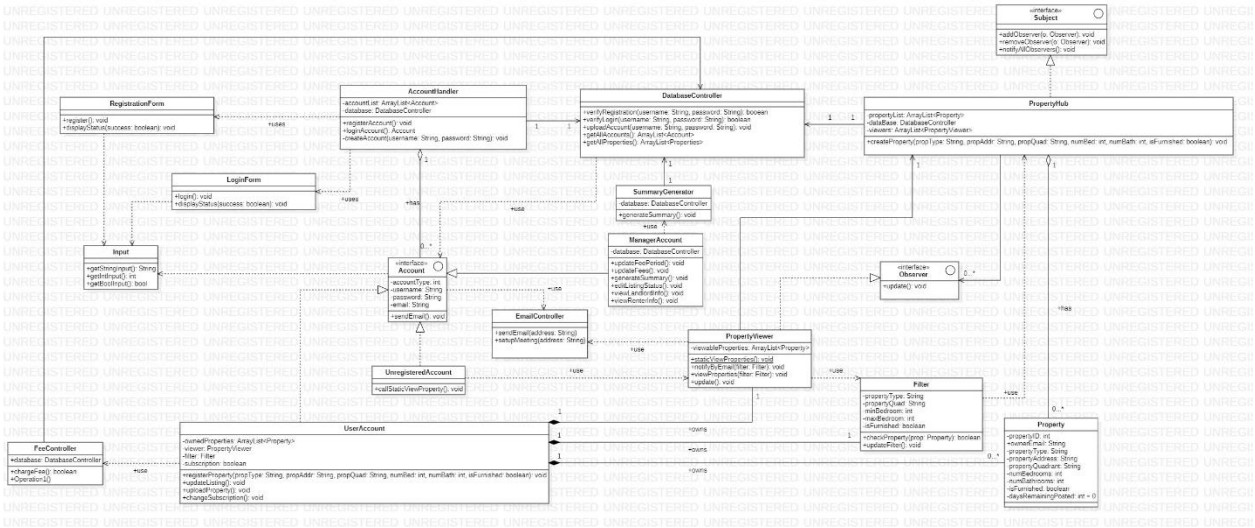
Figure 2.6: Generate Summary Sequence Diagram



3. Class Specification Diagrams

General Class Diagram

Figure 3.1: Class Relationship Diagram



Detailed Class Specification

Figure 3.2.1: Interface Specification

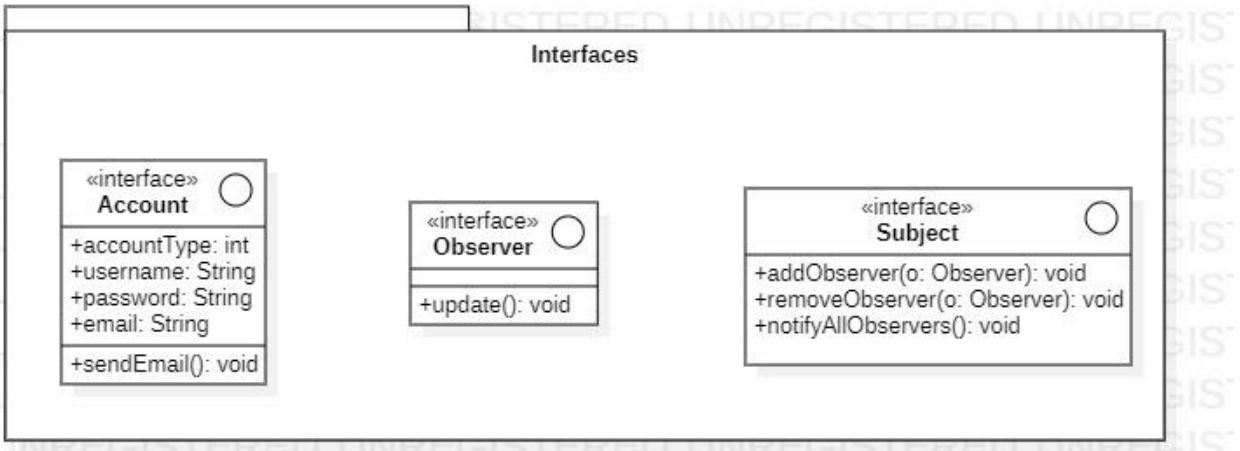


Figure 3.2.2: Interaction Classes Specification

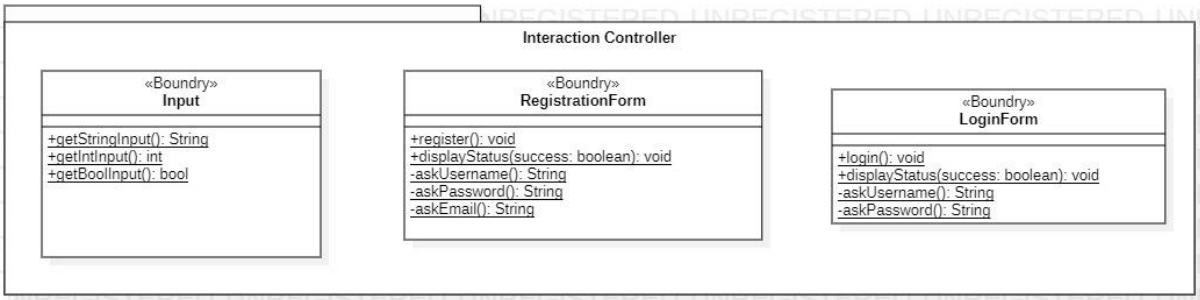


Figure 3.2.3: System Controller Class Specification

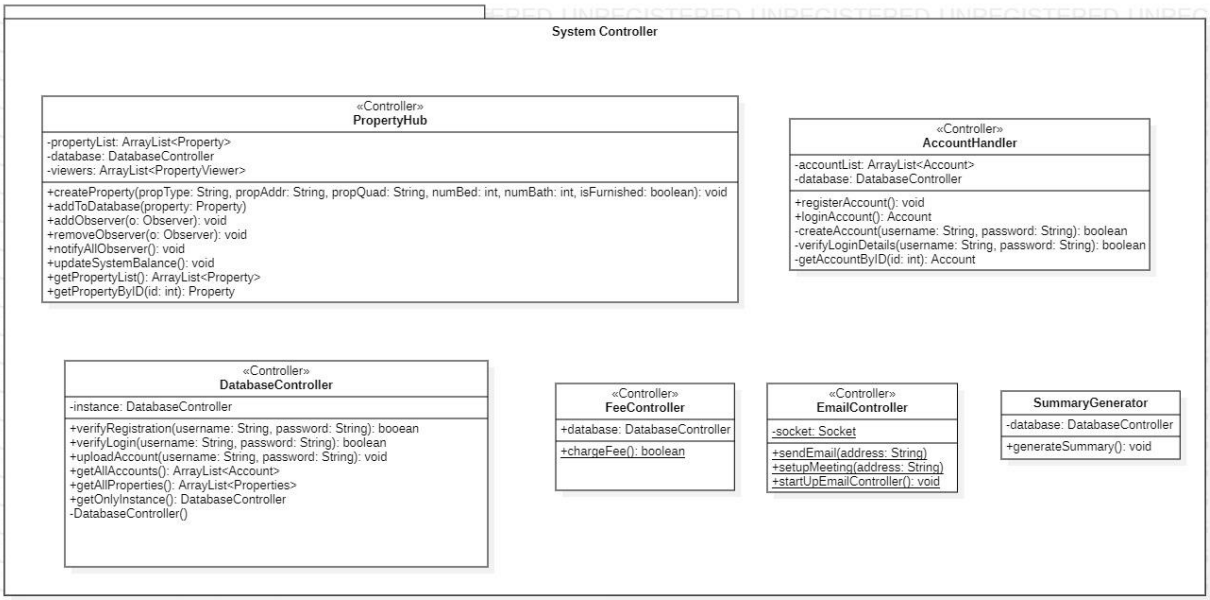
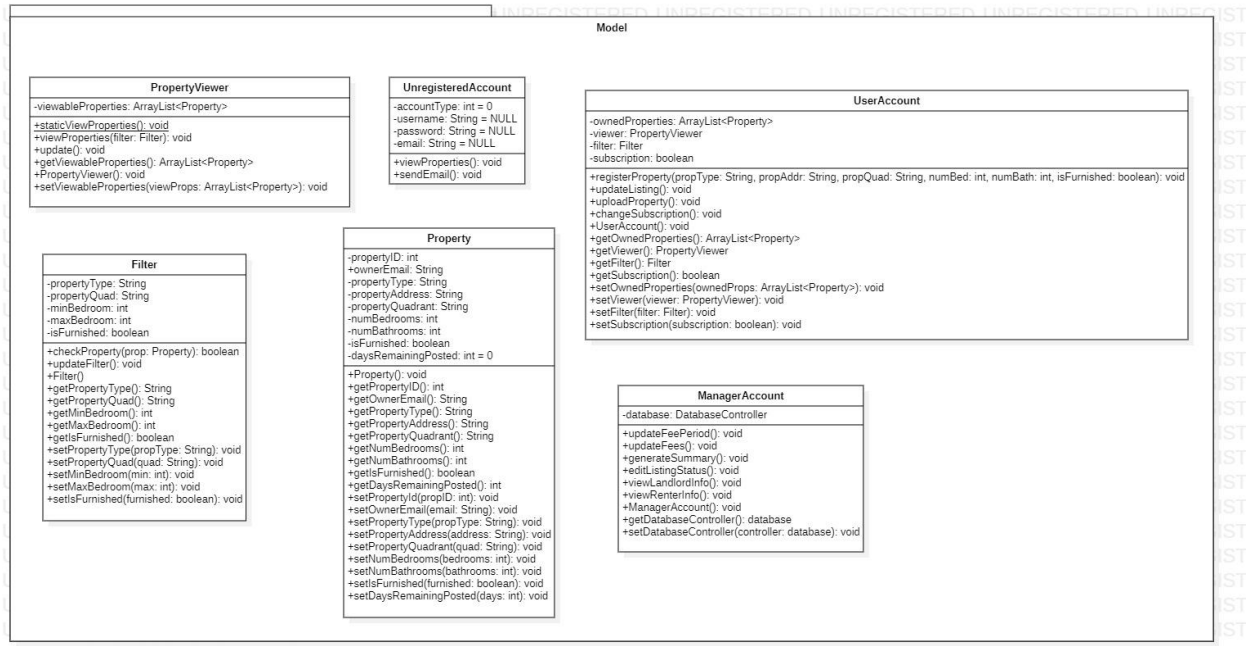


Figure 3.2.4: Entity Class Specification



State Transition Diagrams

Figure 3.3.1: Property Class State Transition Diagram

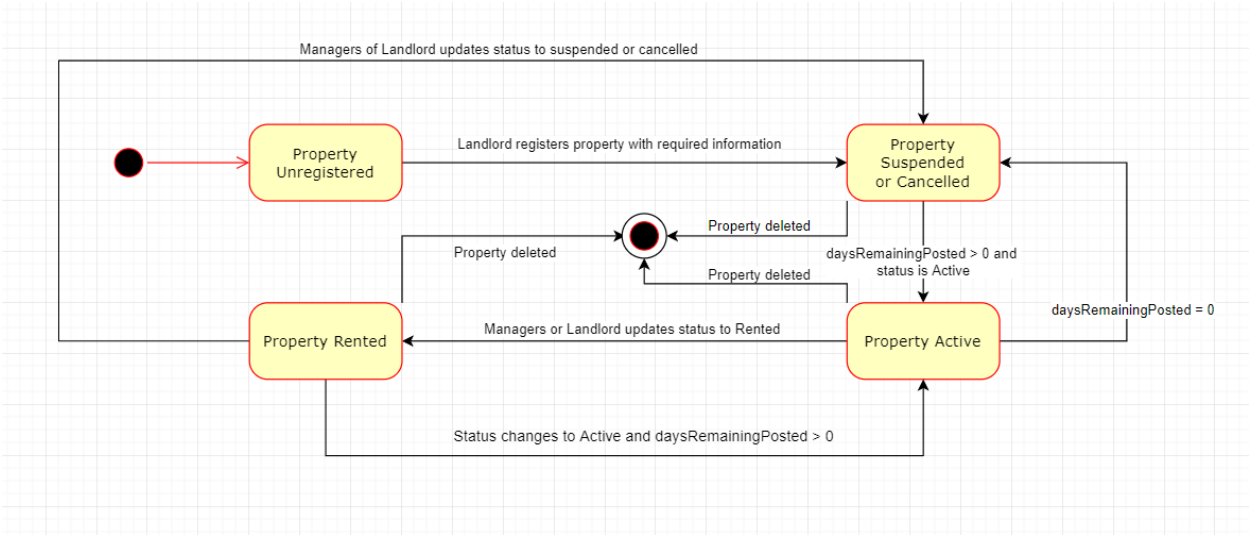


Figure 3.3.2: Database State Transition Diagram

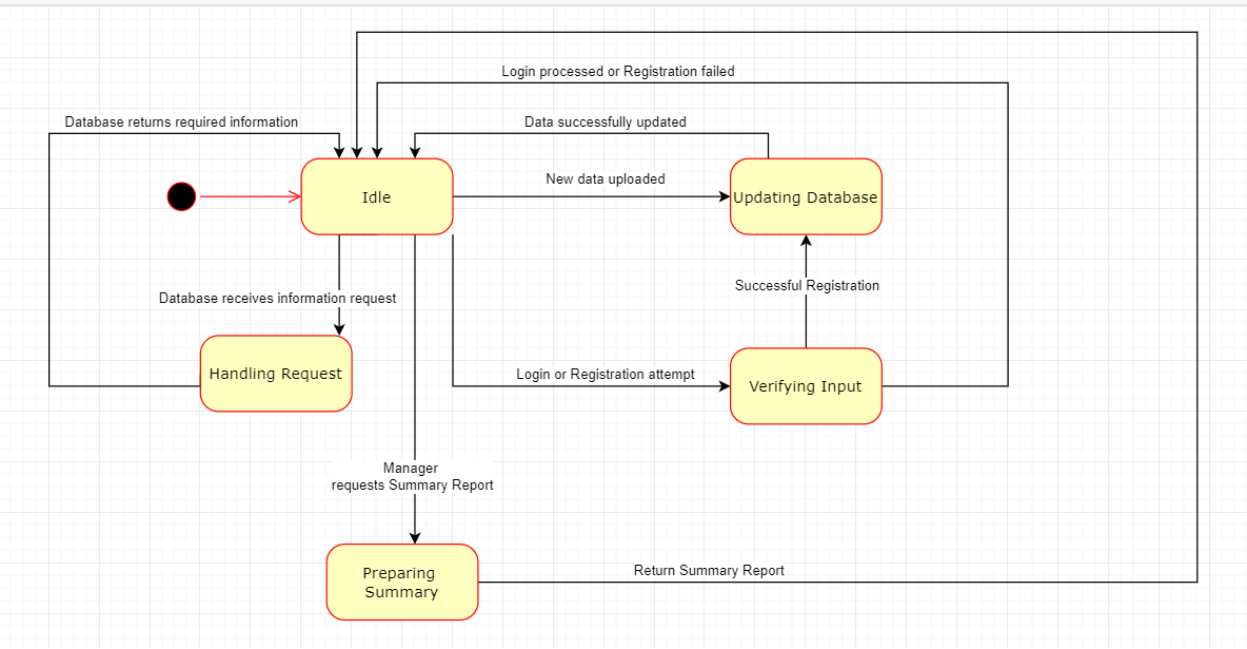


Figure 3.3.3: Email State Transition Diagram

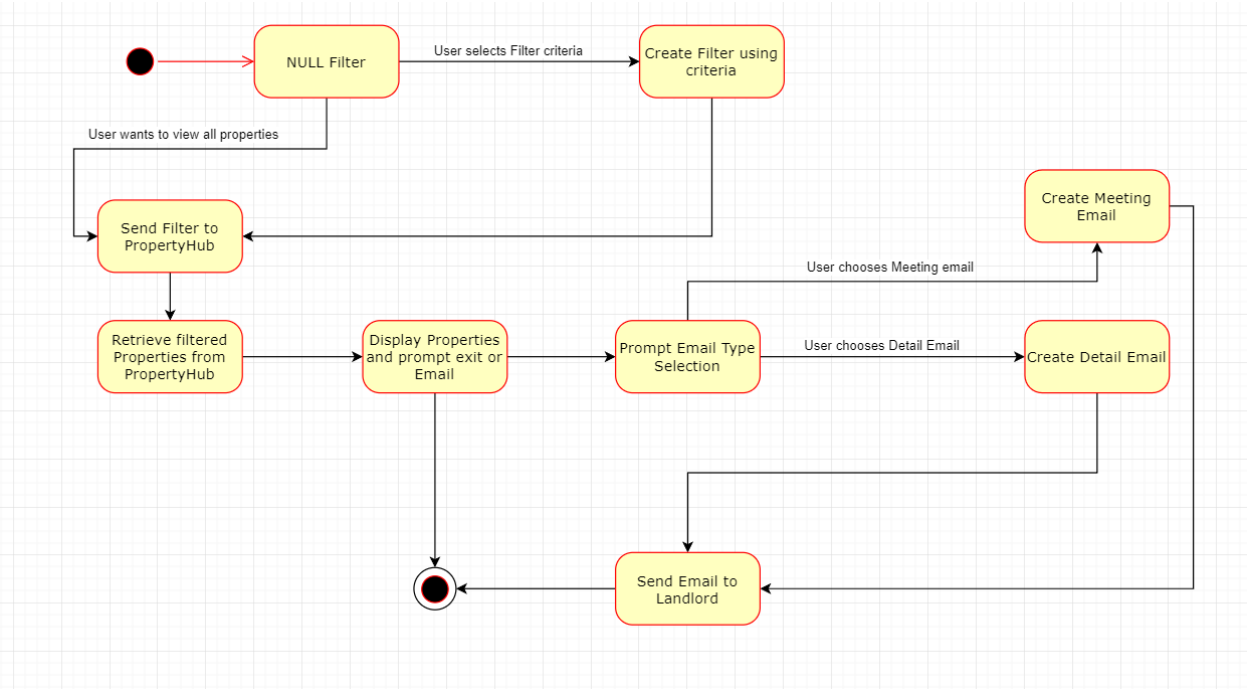
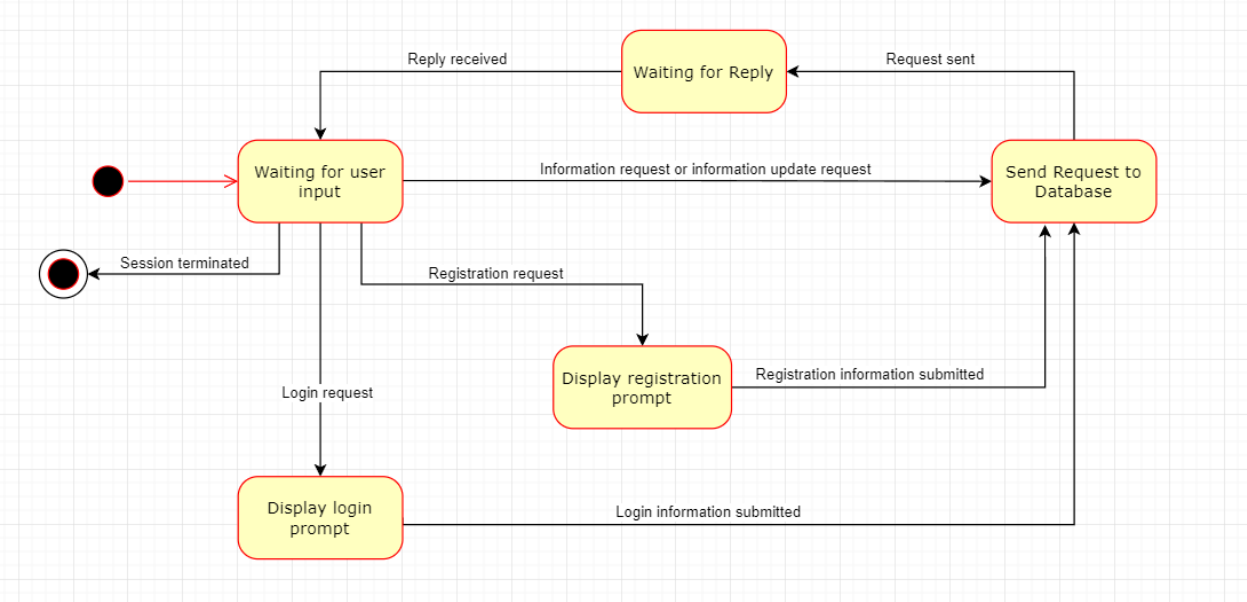
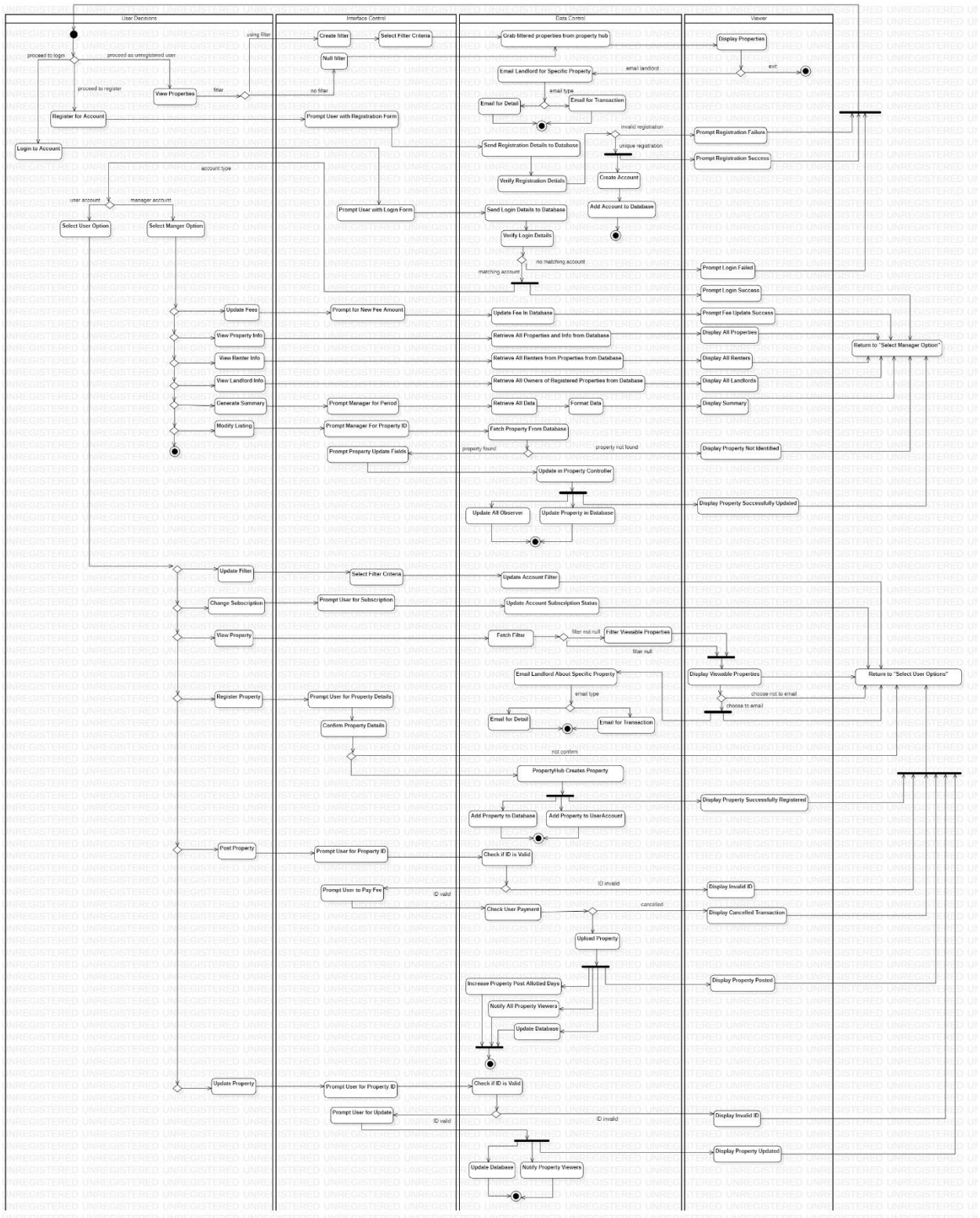


Figure 3.3.4 Input State Transition Diagram



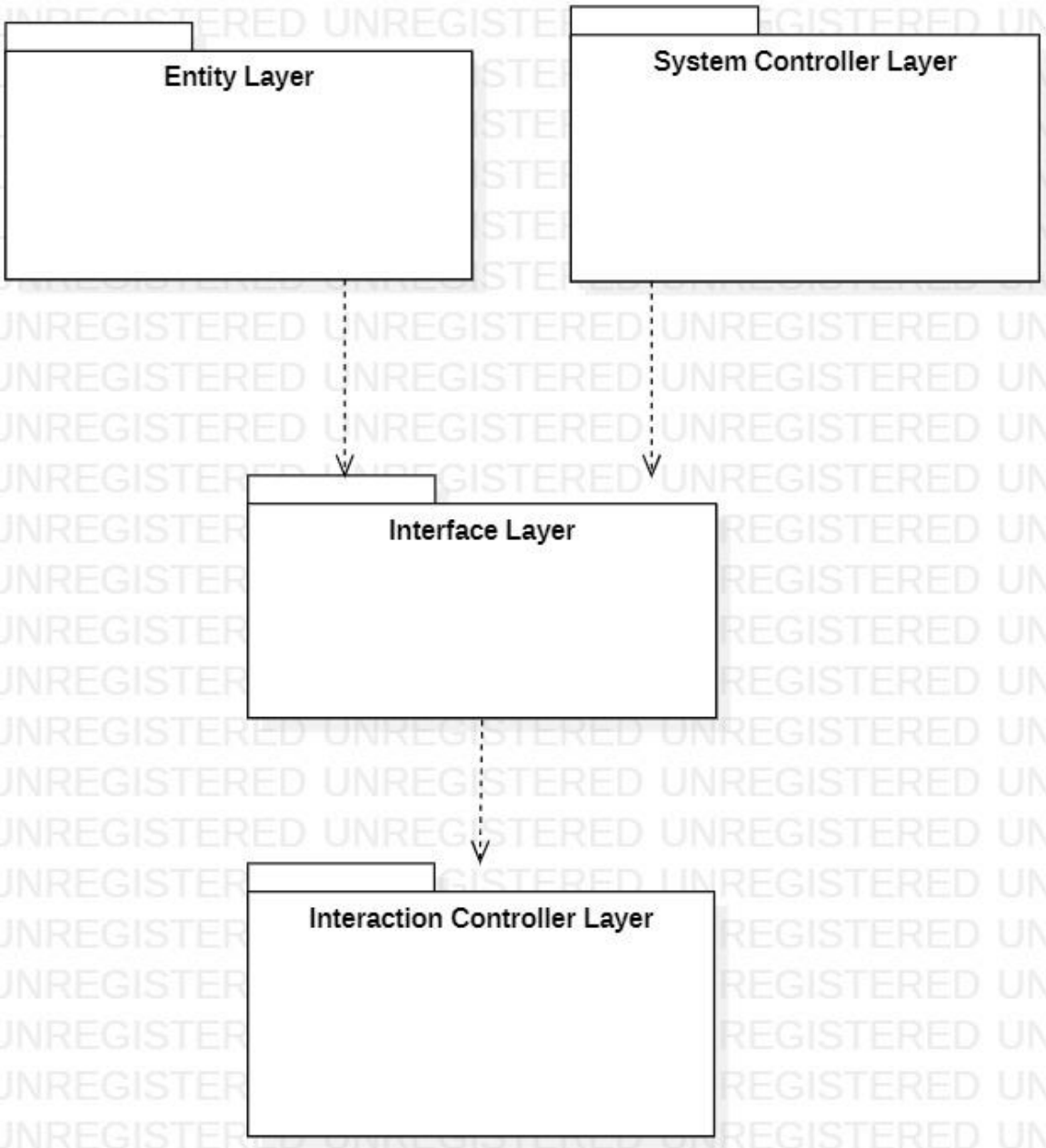
4. System Class Activity Diagram

Figure 4.1: Complete System Activity Diagram



5. Package Diagram

Figure 5.1: Package Diagram



UNREGISTERED UNREGISTERED UNREGISTERED

6. Deployment Diagram

Figure 6.1: Deployment Diagram

7. Work Distribution

Member Contribution as of November 29th, 2021

Figure 7.1 Work Distribution Table

Members Names	% of contribution	Code developed by each member	Modelling Contribution
Tyler	57%		Systems use case diagram. Class diagram. Majority of systems activity diagram. Majority of detail class specification. Deployment Diagram. Sequence diagrams for: Account registration, Property registration, Posting a Property, and Viewing Filtered Property
Tommy	39%		State diagrams for: PropertyViewer, Database, Email, and Input. Sequence diagram for: creating an email. Package Diagram. Worked on detail class specification. Worked on systems activity diagram.
Noel	4%		Generate Summary sequence diagram.
Sina	0%		None

We are including this table to highlight the large discrepancy between member contributions during the design stage of this project.