System Analysis and Design

Project Title:

System Analysis and Design diagrams

Name of the Group Components:

Albacete, Year 2024

Table of Contents

List of Figures

1   Introduction

In this part of the project we are going to develop the graphical representation of *Analysis Diagrams* that defines the boundary between the system, or a segment thereof, from its surroundings, illustrating the entities engaged in interactions with it.

We will be seeing *Design Diagrams*, that is a state diagram that models the dynamic aspects of the system by showing the flow of control from state to state for a particular class.

Finally, we are going to show the graphical description of *Implementation Diagrams*, which are visual models of how to depict the physical components, modules, and their relationships within a system.
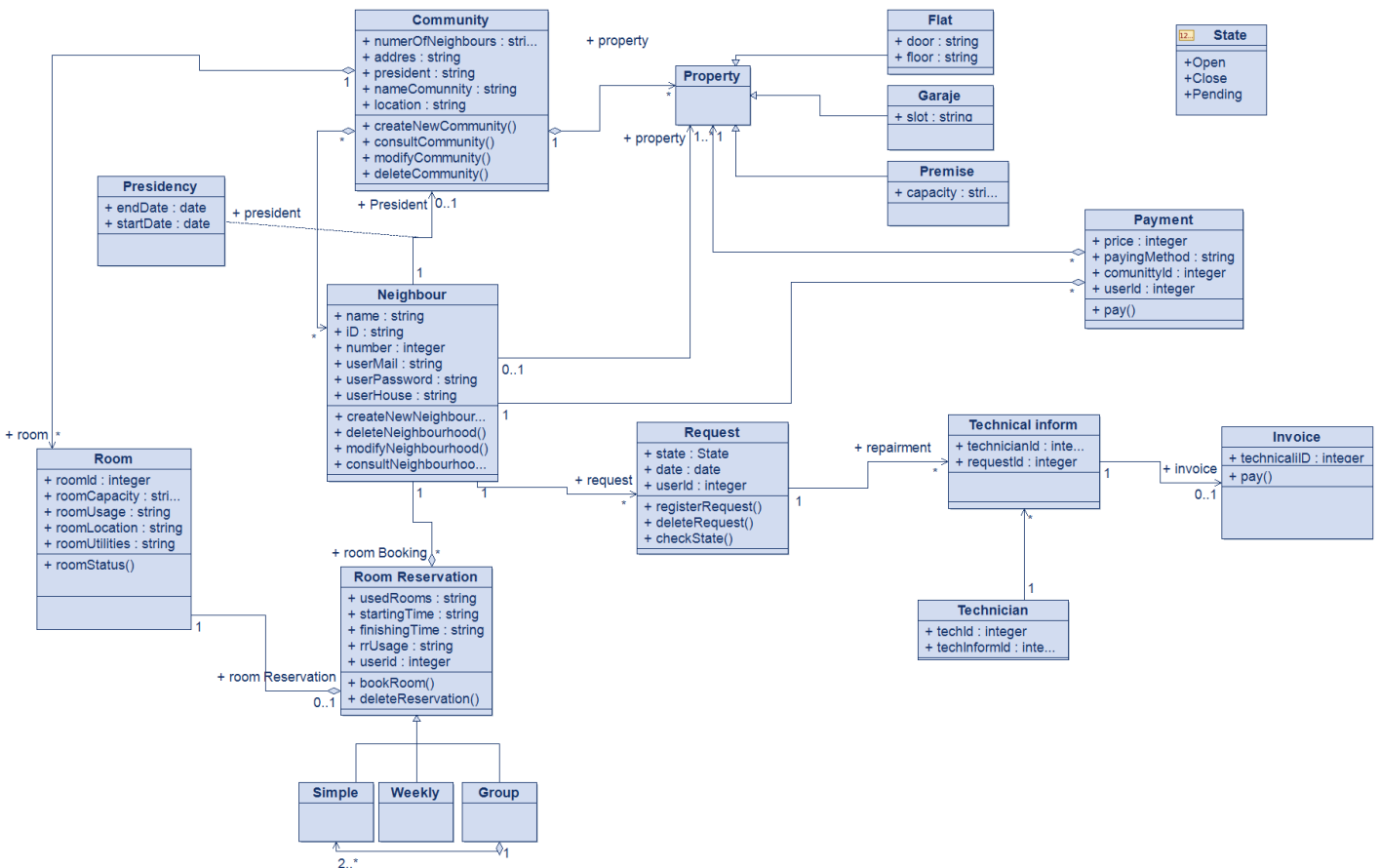
2   Analysis Model

2.1   Class Diagram (Domain)

Figure 1. *Domain Class Diagram*
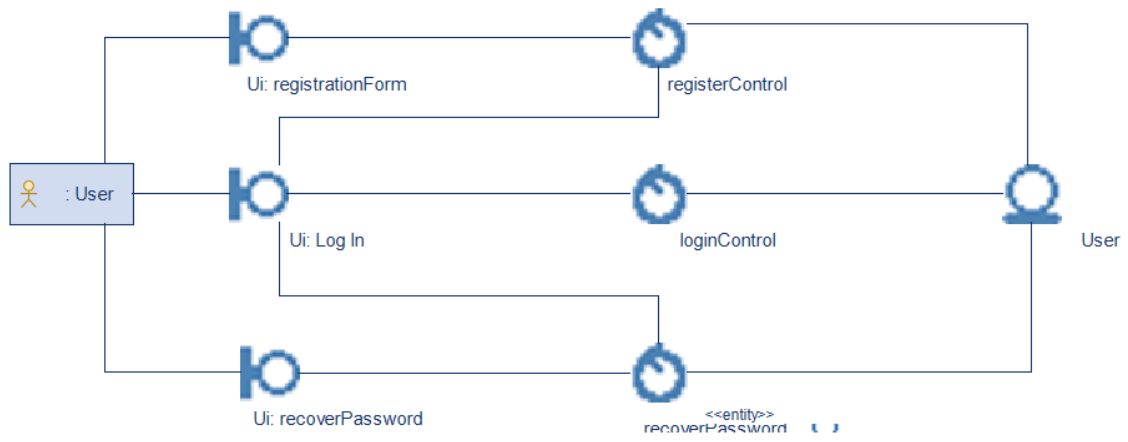
2.2 Analysis Class Diagrams
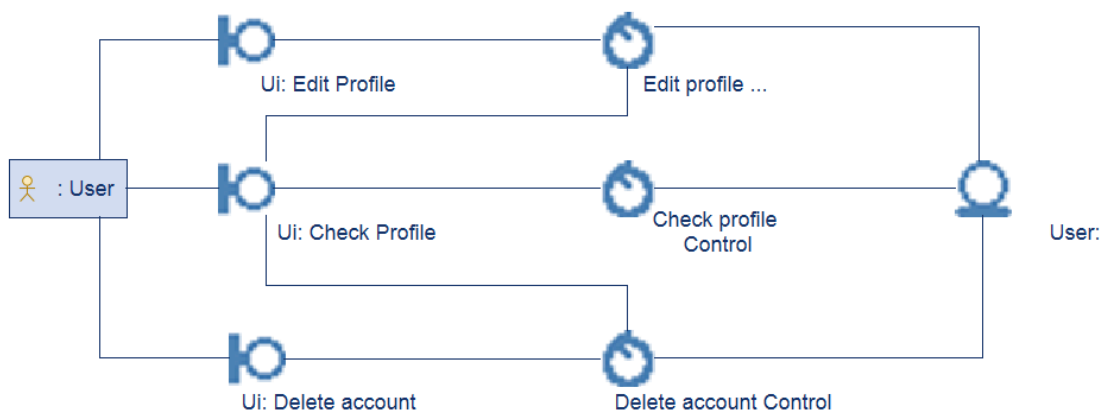

Figure 2. Log In Diagram

Figure 3. *Check profile Diagram*

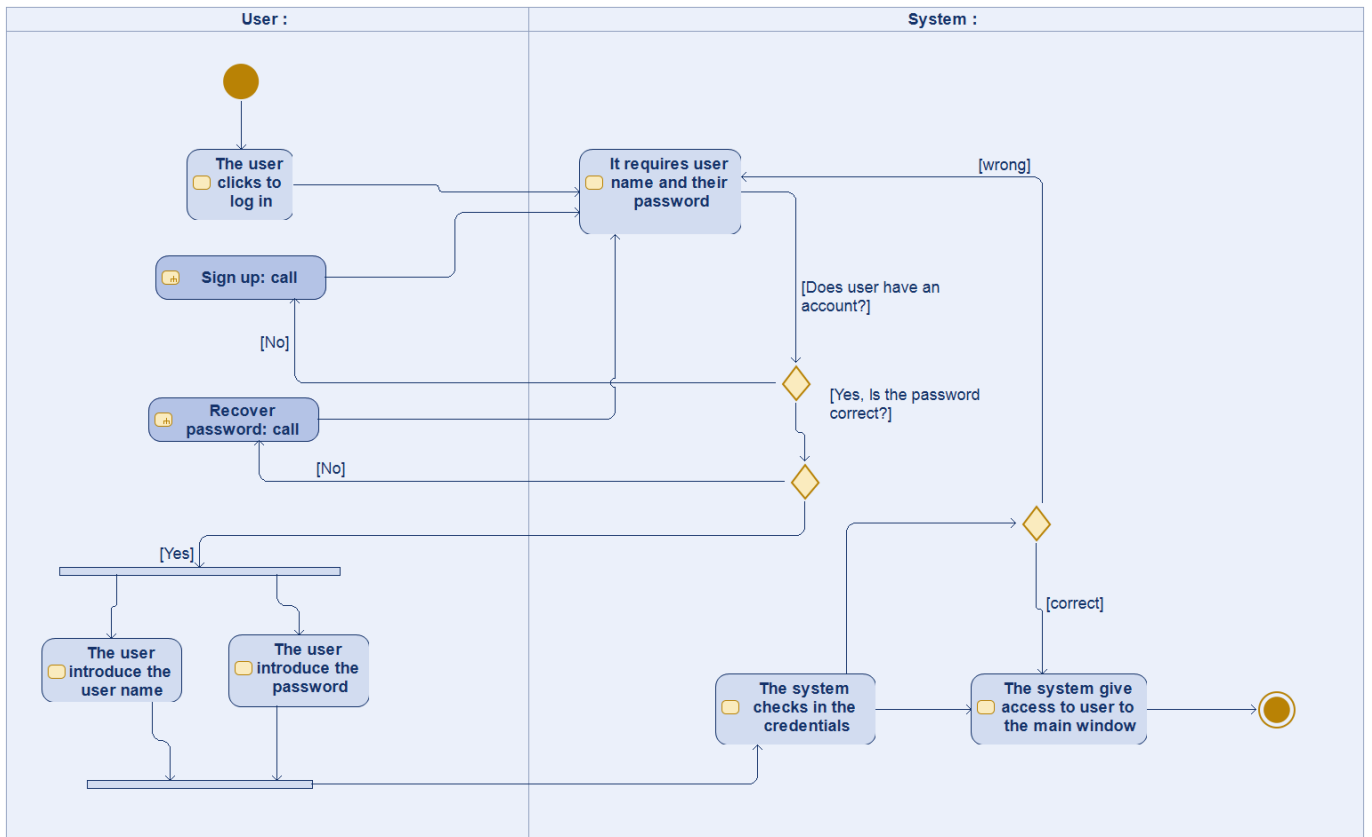## 2.3   Activity Diagrams
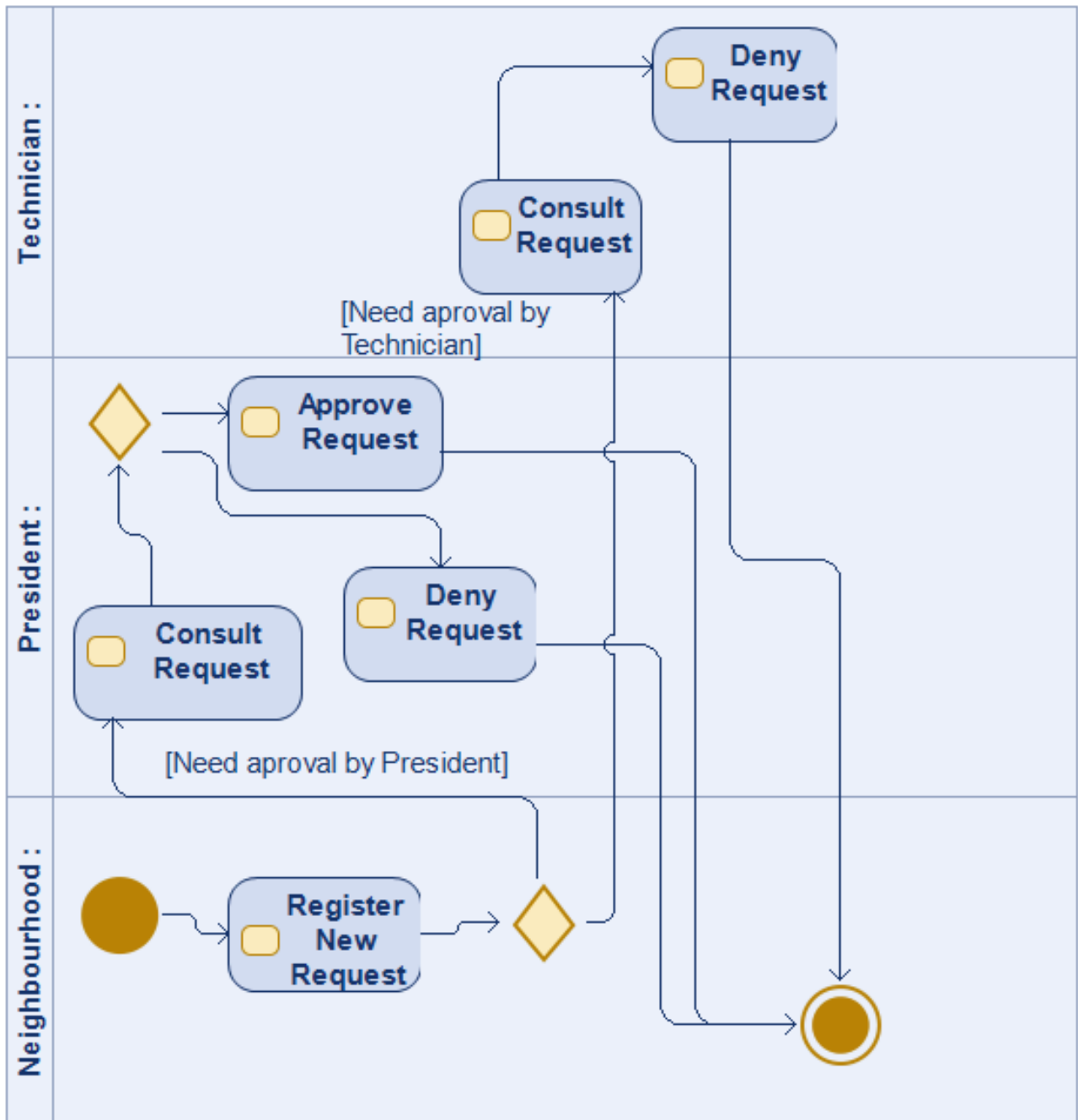

Figure 4. Log in Diagram

Figure 5. *Request Management Diagram*
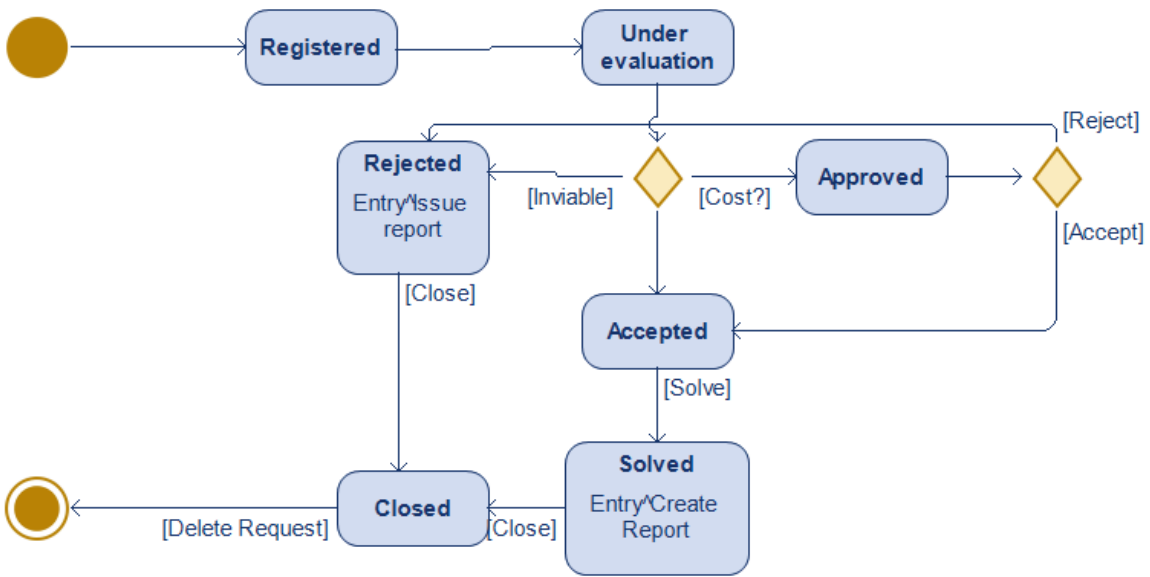
3 Design Model

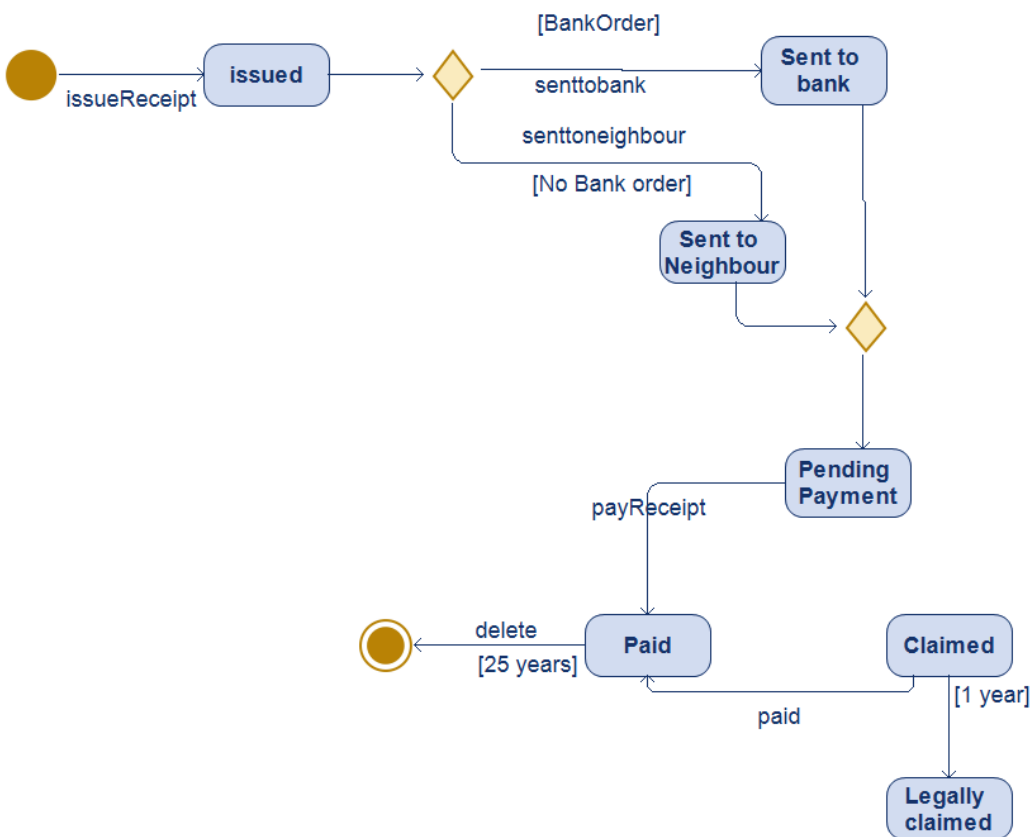## 3.1 State Diagrams

Figure 6. State Diagram for request

Figure 7. *State Diagram for Bill*
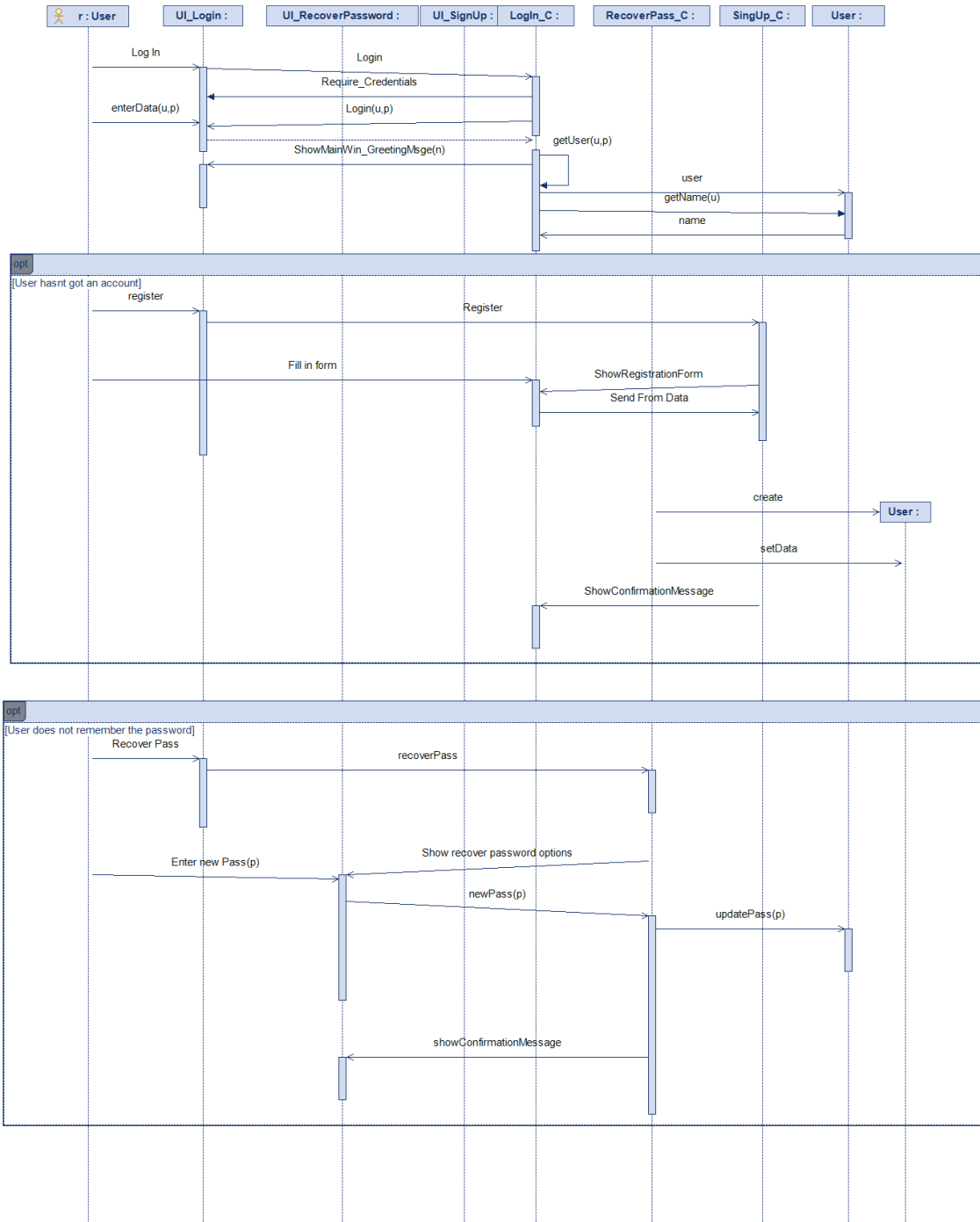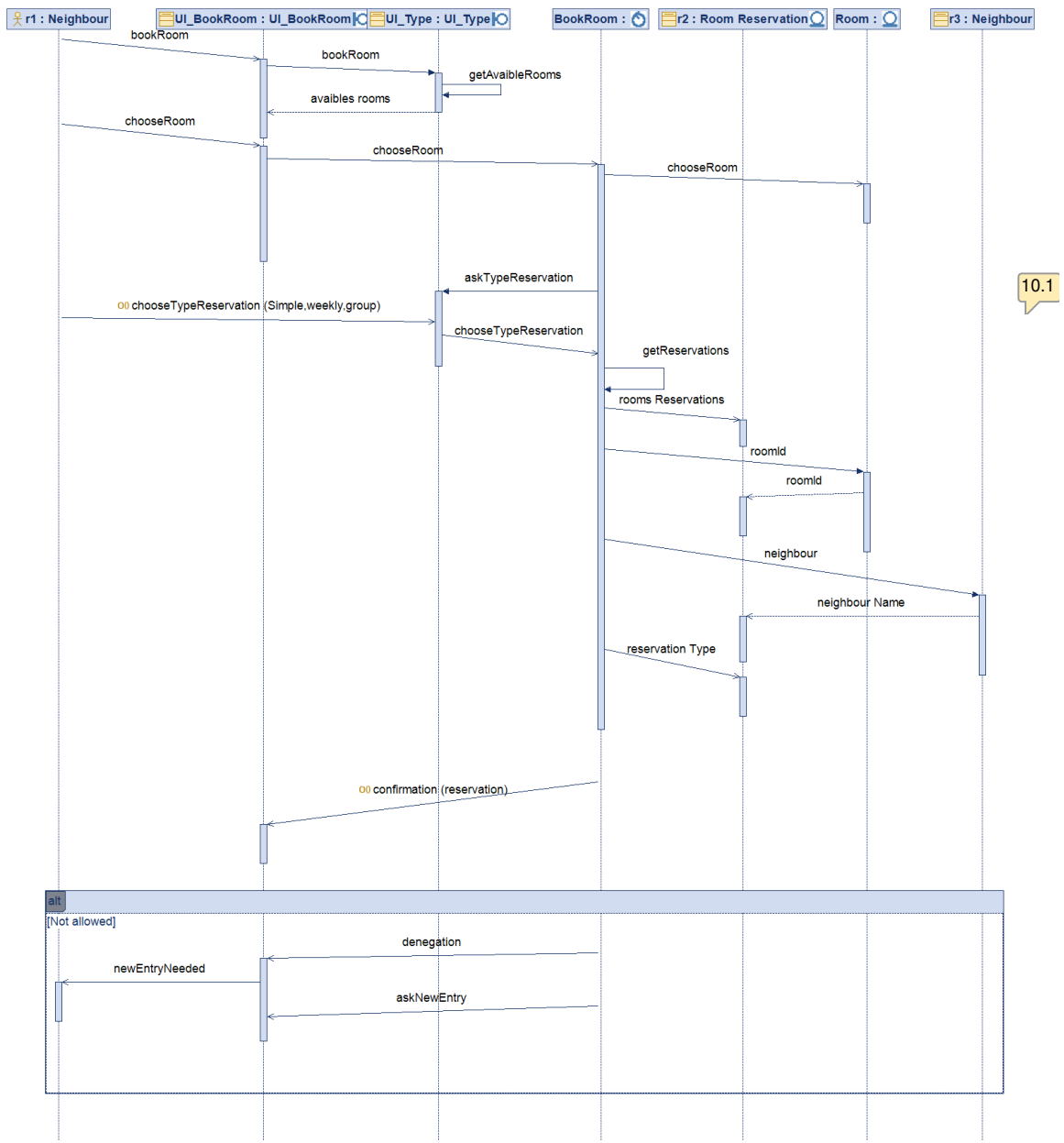
3.2 Sequence Diagrams

Figure 8. *Sequence Diagram for Log In*

Figure 9. *Sequence Diagram for Book Room*

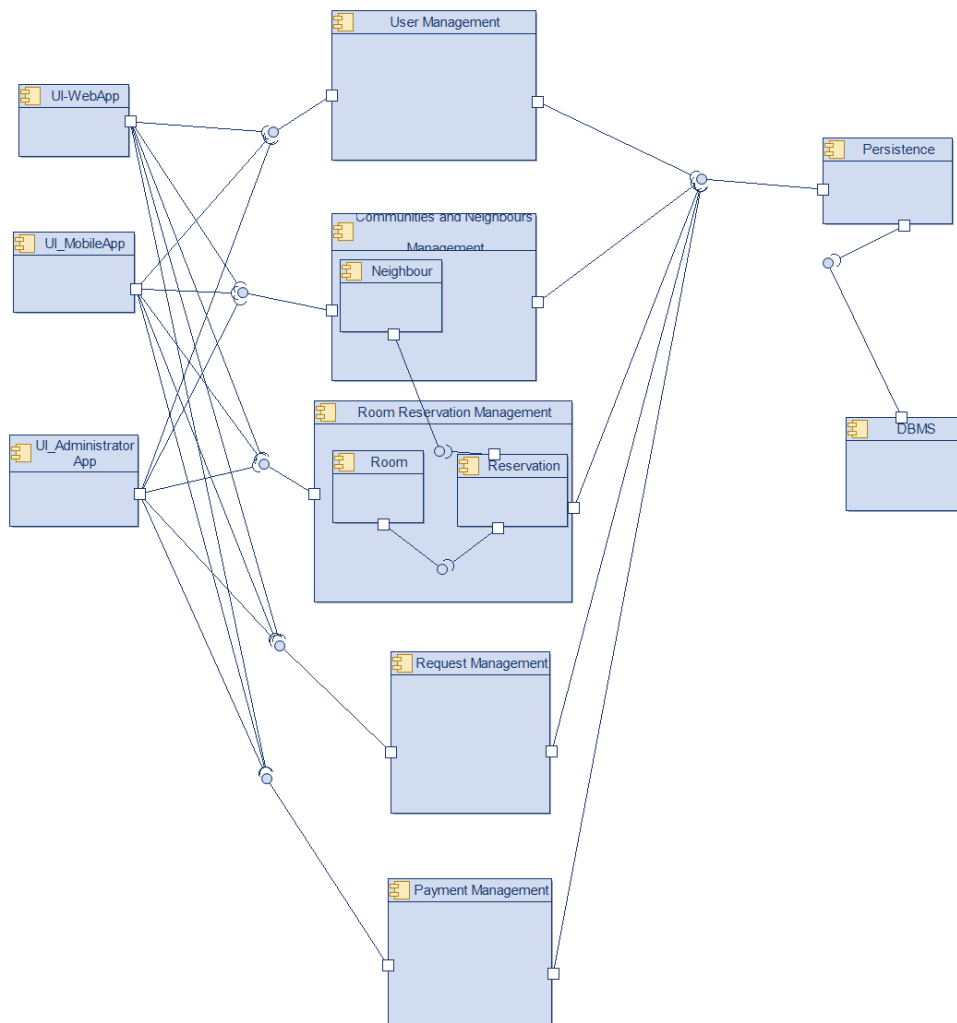# 4   Implementation Model

4.1   Component Diagram

Figure 10. *Component Diagram*
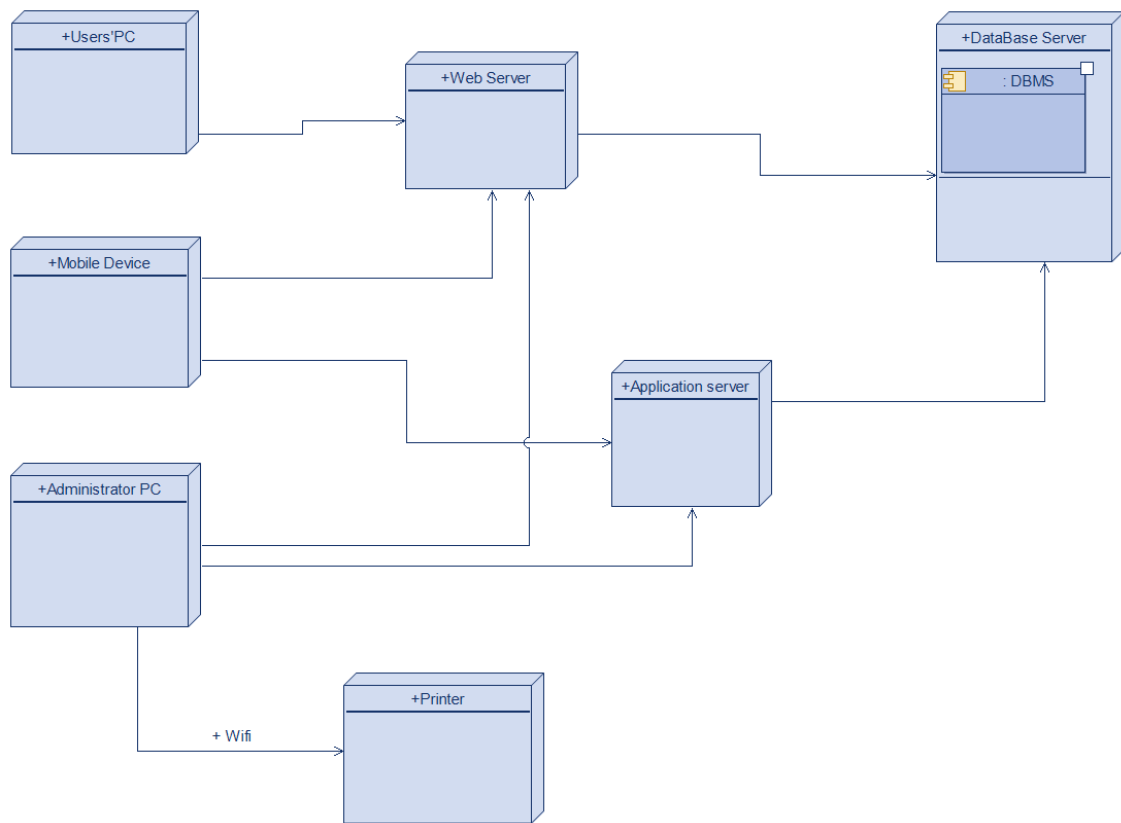
4.2   Deployment Diagram

Figure 11. Deployment Diagram

Index of comments