

# System Analysis and Design

---

**Project Title:**

System Analysis and Design diagrams

**Name of the Group Components:**

**Albacete, Year 2024**

# Table of Contents

<b>1 INTRODUCTION.....</b>	<b>4</b>
<b>2 ANALYSIS MODEL.....</b>	<b>4</b>
2.1 CLASS DIAGRAM (DOMAIN).....	4
2.2 ANALYSIS CLASS DIAGRAMS.....	5
2.3 ACTIVITY DIAGRAMS.....	6
<b>3 DESIGN MODEL.....</b>	<b>7</b>
3.1 STATE DIAGRAMS.....	7
3.2 SEQUENCE DIAGRAMS.....	9
<b>4 IMPLEMENTATION MODEL.....</b>	<b>11</b>
4.1 COMPONENT DIAGRAM.....	11
4.2 DEPLOYMENT DIAGRAM.....	12

## List of Figures

FIGURE 1. DOMAIN CLASS DIAGRAM.....	4
FIGURE 2. ANALYSIS CLASS DIAGRAM:LOG-IN.....	5
FIGURE 3. ANALYSIS CLASS DIAGRAM:CHECK PROFILE .....	5
FIGURE 4. ACTIVITY DIAGRAM: LOG-IN.....	6
FIGURE 5. ACTIVITY DIAGRAM: REQUEST .....	7
FIGURE 6. STATE DIAGRAM: REQUEST.....	8
FIGURE 7. STATE DIAGRAM: BILL .....	8
FIGURE 8. SEQUENCE DIAGRAM: LOG-IN .....	9
FIGURE 9. SEQUENCE DIAGRAM: BOOK ROOM .....	10
FIGURE 10. COMPONENT DIAGRAM .....	11
FIGURE 11. DEPLOYMENT DIAGRAM.....	12

# 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)

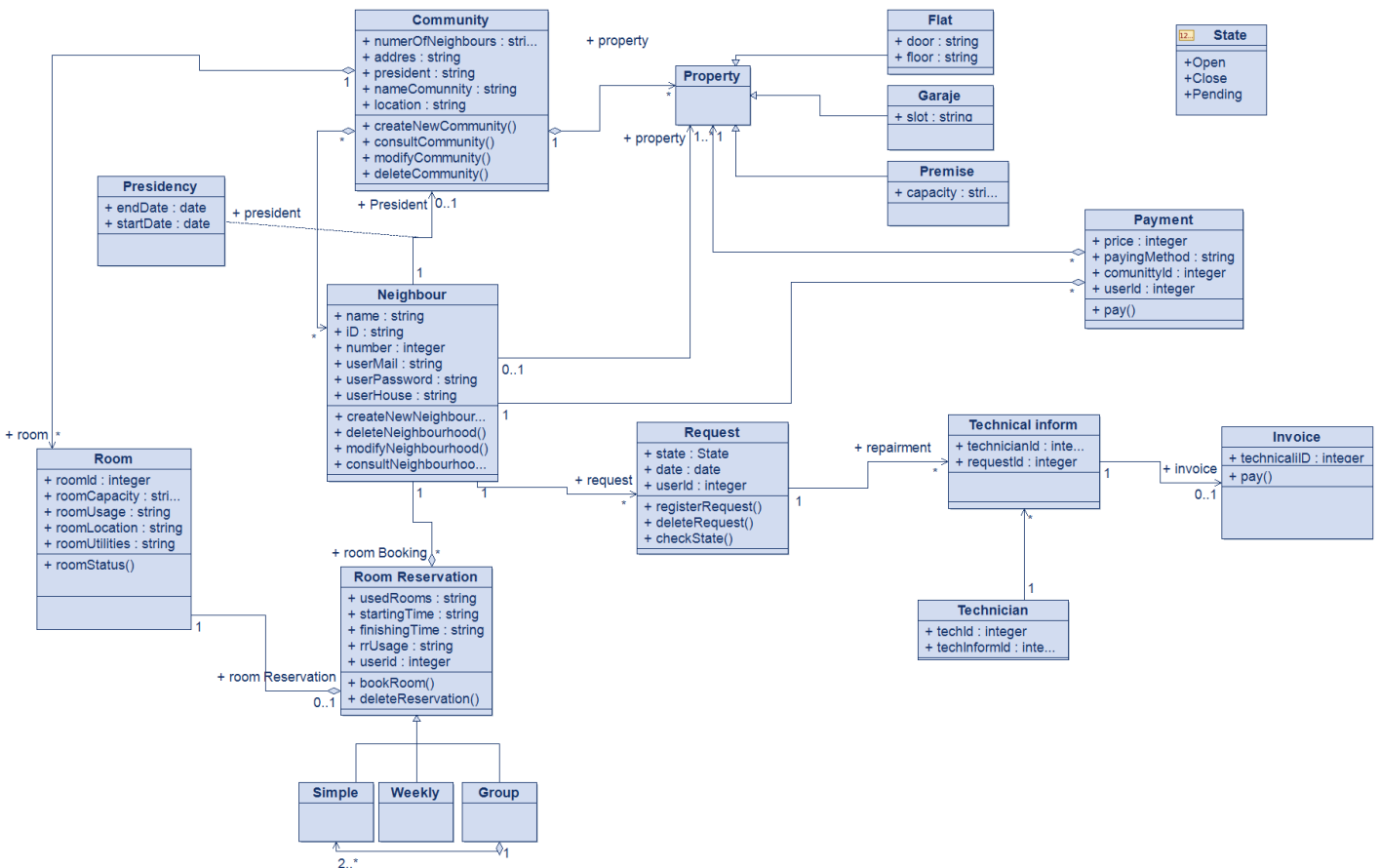


Figure 1. Domain Class Diagram

## 2.2 Analysis Class Diagrams

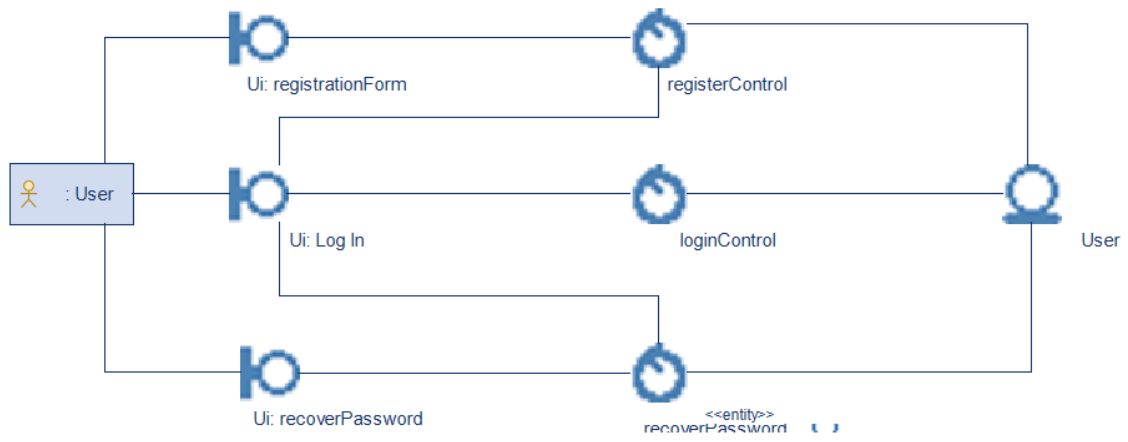


Figure 2. Log In Diagram

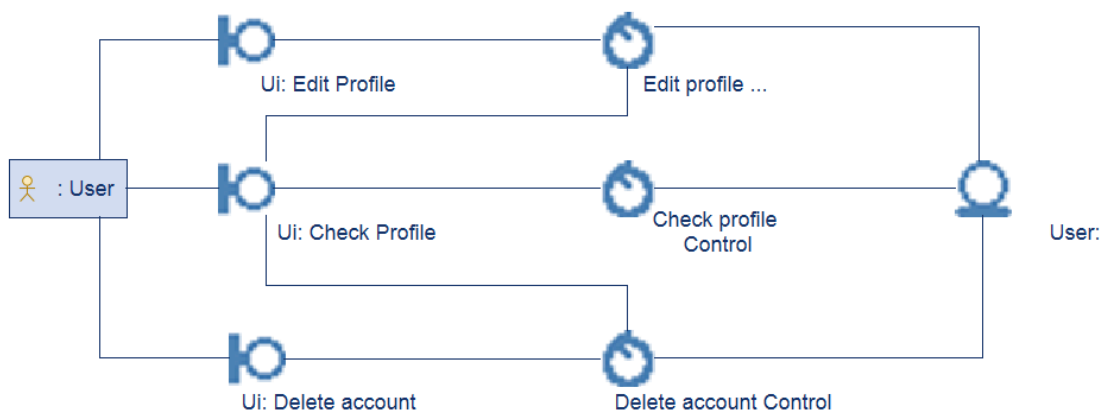


Figure 3. Check profile Diagram

## 2.3 Activity Diagrams

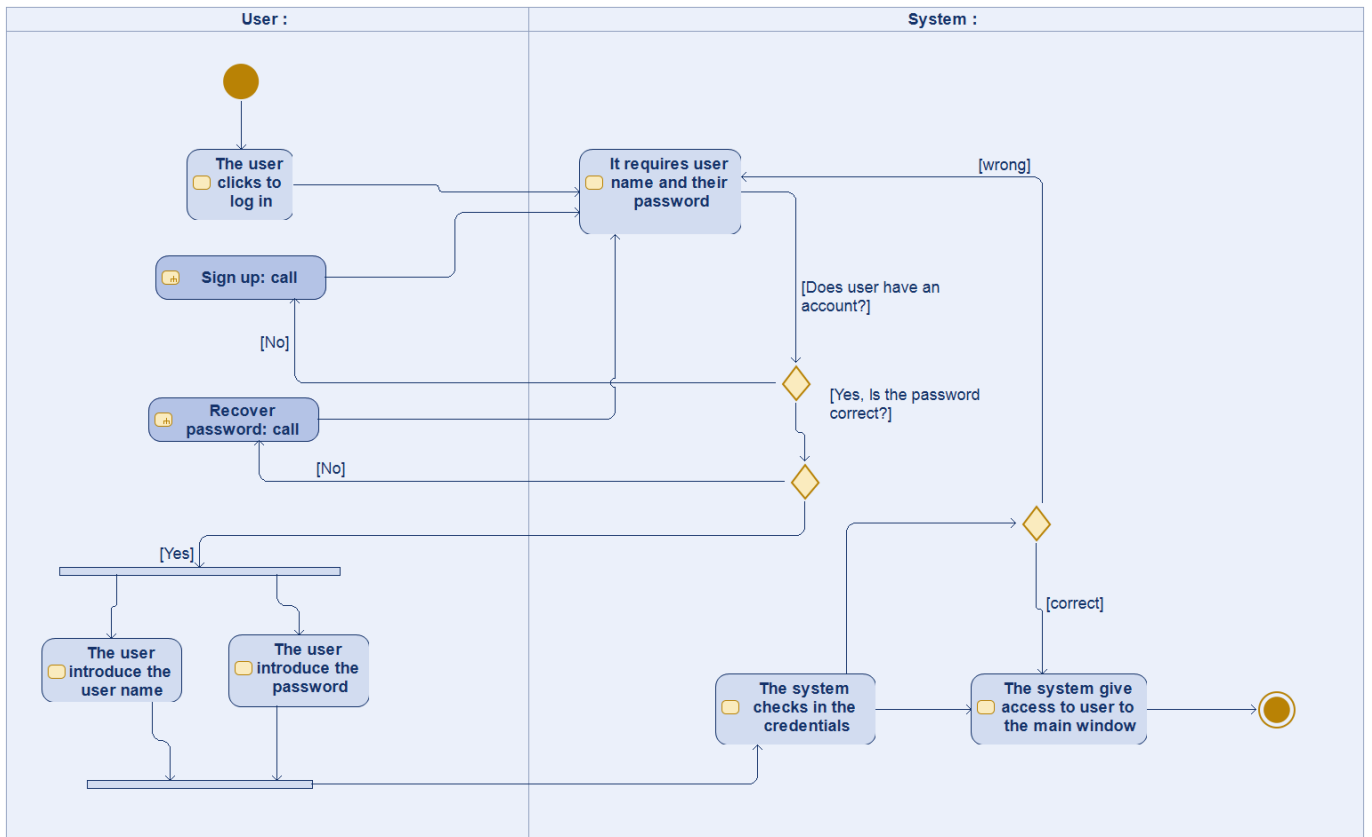


Figure 4. Log in Diagram

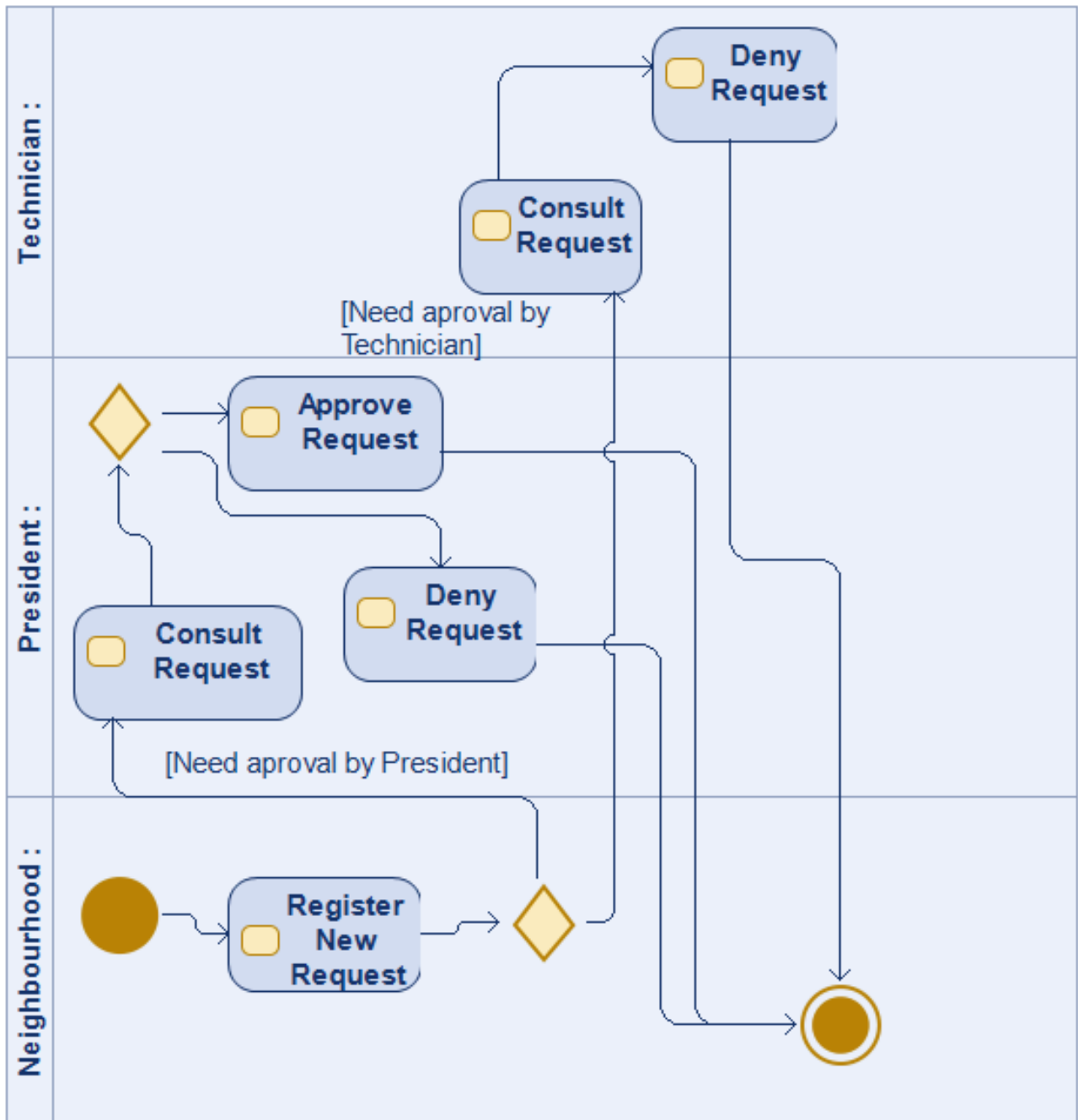


Figure 5. Request Management Diagram

### 3 Design Model

#### 3.1 State Diagrams

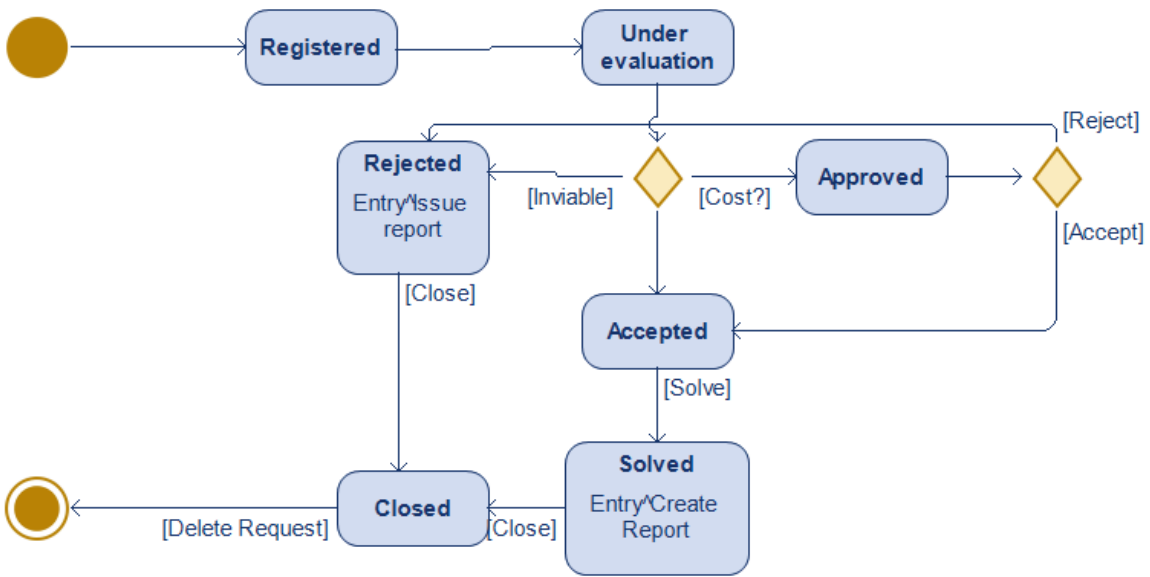


Figure 6. State Diagram for request

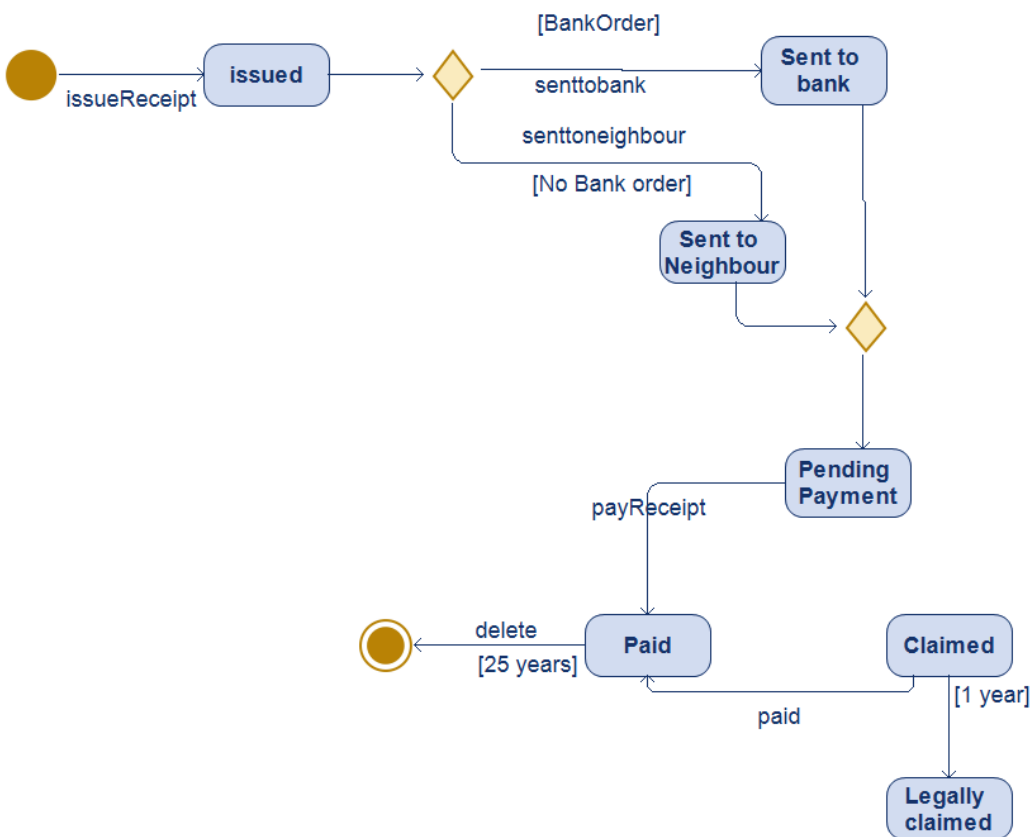


Figure 7. State Diagram for Bill



### 3.2 Sequence Diagrams

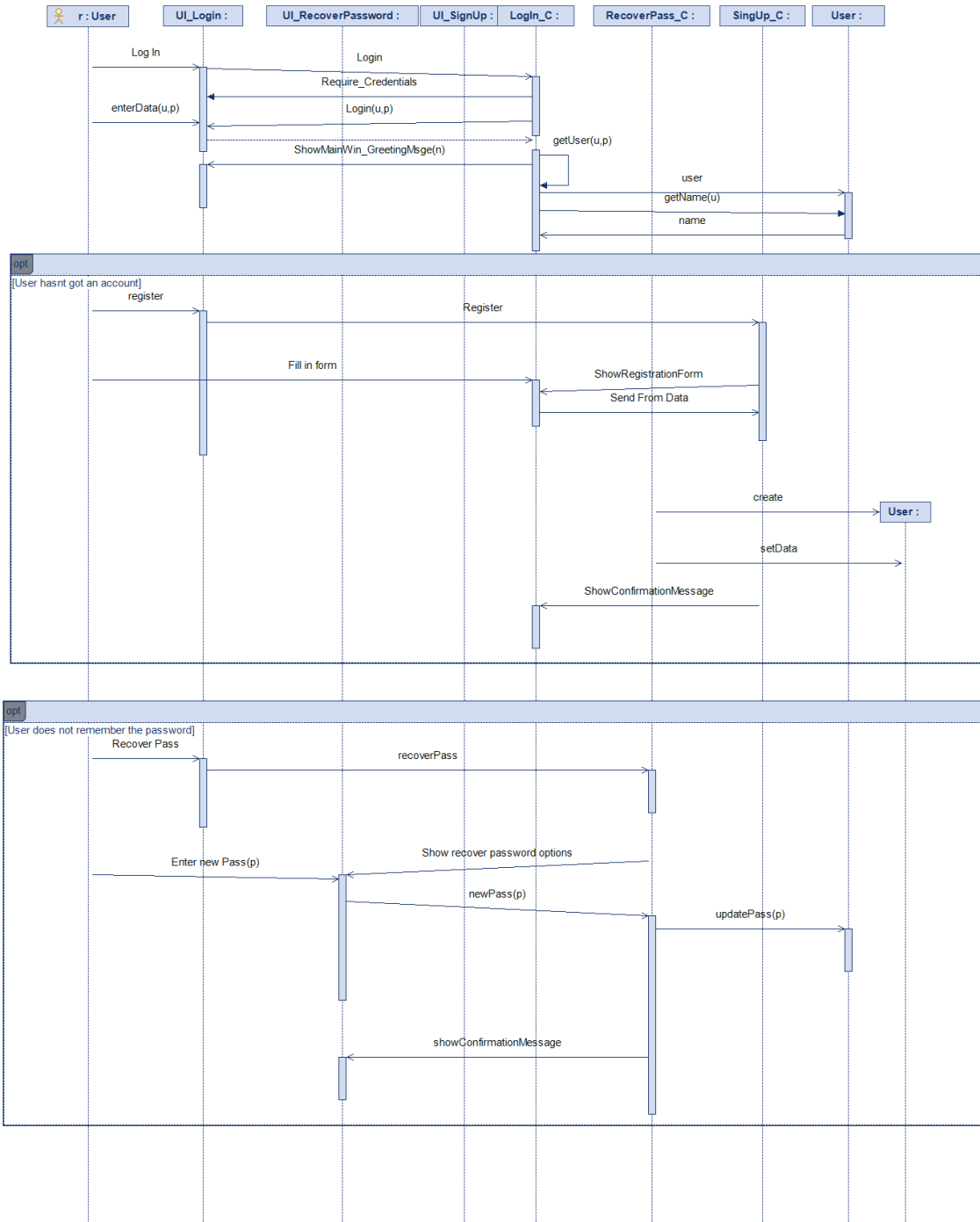
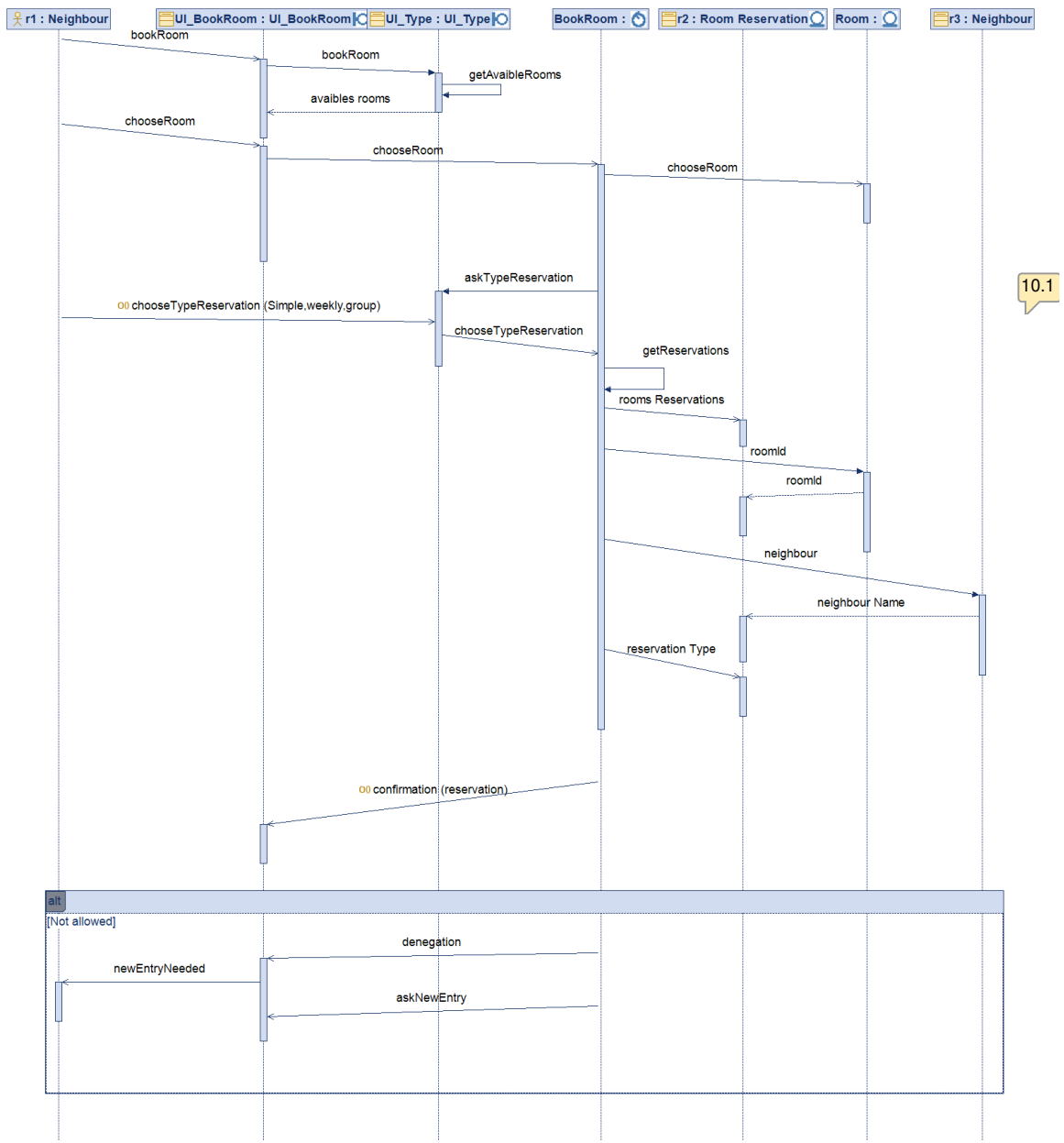


Figure 8. Sequence Diagram for Log In



10.1

Figure 9. Sequence Diagram for Book Room

## 4 Implementation Model

### 4.1 Component Diagram

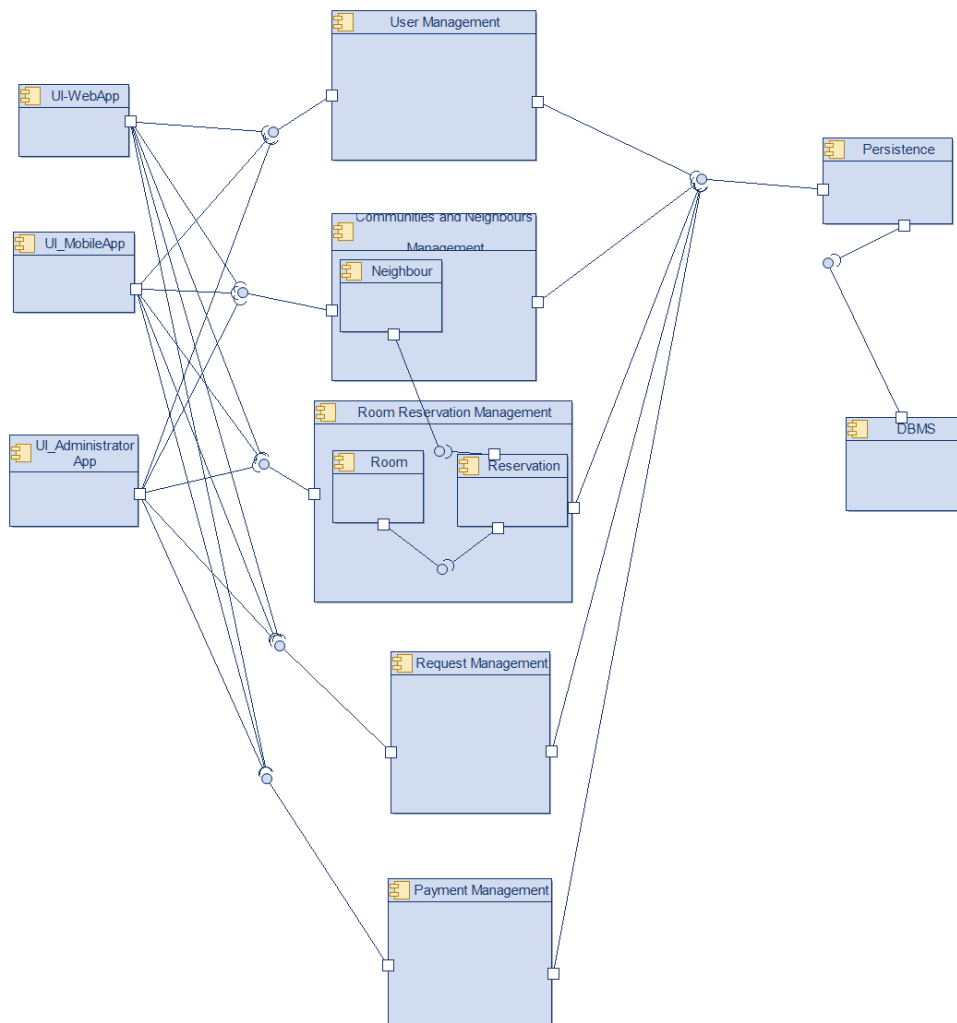


Figure 10. Component Diagram

## 4.2 Deployment Diagram

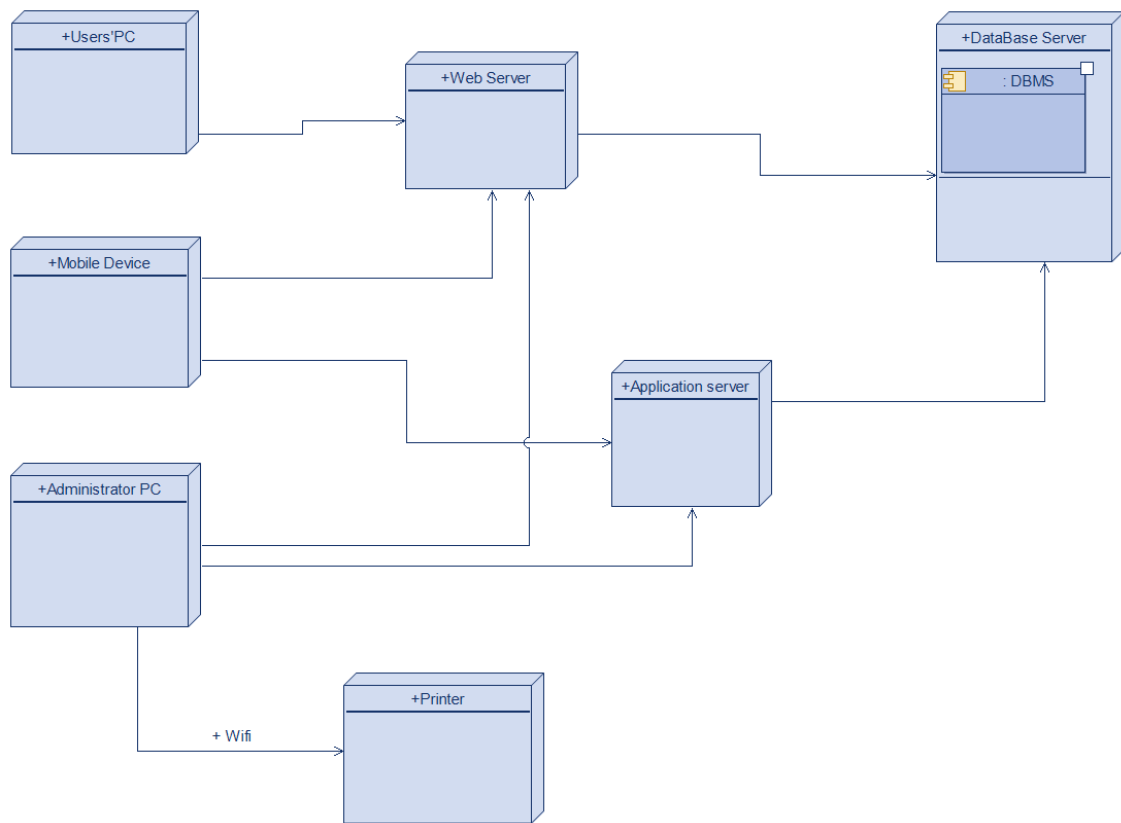


Figure 11. Deployment Diagram

# Index of comments

---

10.1 You need to create the new room reservation (new entity)