**Course assignment 1**

**Derived UC-1 (unlocked) and UC-4 (retired)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Initiator** | **Initiator’s goal** | **Participants** | **Use Case Name** |
| **Tennant** | **U lock and enter the home** | **Lock, home equipment, database, telephone** | **Unlock (UC-1)** |
| **L androde** | **Cancel the existing user phone number and disable access rights.** | **database**  **telephone** | **Retired users (UC-4)** |

**Use case plan for UC-1 and UC-4**

**[UC-1]**

|  |  |  |
| --- | --- | --- |
| **Use case UC-1** | | **unlocking** |
| **Relevant requirements:** | | **REQ-12345** |
| **Initiating Actor:** | | **Tenant, landlord** |
| **Actor's goal:** | | **Unlock and enter, and automatically light up the space.** |
| **Participating actors:** | | **Lock, switch, telephone or Bluetooth** |
| **Prerequisites:** | | **The valid telephone number set stored in the system database is not empty.** |
| **Post-condition:** | | **The lock remains associated with the phone and starts timing when needed** |
| **Event flow of main success scenarios:** | | |
| **→** | **1. when the tenantlandlord arrives at the door, b lue's teeth find the signal.** | |
| **←** | **2. The system sends a "successful input" message to the telephone.** | |
| **←** | **3. The system tells the timer to start timing** | |
| **→** | **4. The tenantlandlord enters the house and closes the door** | |

**[UC-4]**

|  |  |  |
| --- | --- | --- |
| **Use case UC-4:** | | **Retired users** |
| **Relevant requirements:** | | **Q-7 again** |
| **Initiating Actor:** | | **landlord or landlady** |
| **Actor's goal:** | | **Delete the accounts of departing residents** |
| **Participating actors:** | | **Lock, phone** |
| **Preconditions:** | | **not have** |
| **Post-condition:** | | **The modified data is stored in the database** |
| **Event flow of main success scenarios:** | | |
| **→** | **1. landlord identification and rewriting authority** | |
| **←** | **2. The system displays the activity options to the landlord** | |
| **→** | **4. The landlord selects "Delete" and deletes the selected ID in the database** | |
| **←** | **5. The system deletes the data and sends it to the landlord.** | |

**Provide acceptance test of UC-1 and UC-4**

|  |  |  |
| --- | --- | --- |
| **Test-case identifier** | **TC-1** | |
| **Use case testing** | **UC-1, the main successful scheme** | |
| **Pass/fail criteria** | **Mobile phone ID recognized when approaching the door** | |
| **input data** | **Message sent to Lock** | |
| **Test procedure:** | | **Ex specified result:** |
| **Step 1: Use the wrong mobile phone ID to approach the door** | | **lags in response** |
| **Step 2: Use the correct mobile phone ID to access the door** | | **Use the data in the database to respond and start working** |

|  |  |  |
| --- | --- | --- |
| **Test-case identifier** | **TC-2** | |
| **Use case testing** | **UC-4，** | |
| **Pass/fail criteria** | **The mobile phone ID was not unlocked when it was deleted** | |
| **Test procedure:** | | **Ex specified result:** |
| **Step 1: The Land Lord has deleted the ID of a phone from the database** | | **The system deletes the data and sends it to the landlord.** |
| **Step 2: Use the mobile phone whose mobile phone ID has been deleted to approach the door** | | **system is not responding** |