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| --- | --- | --- | --- |
| Initiator | Initiator’s goal | Participants | User Case Name |
| Tenant | Unlock by mobile phone and enter | Database,Lock,Household Devices,  Mobile Phone | UC-1 Unlock |
| Landlord | Retire an existing user account and disable access by clear his phone number which was logged in the system | Database,Mobile Phone | UC-4 RetireUser |

Initiating

Actors: Any of Landlord,Tenant

Actors Goal: **Unlock the door by using mobile phone and enter,and get space lighted up automatically**

**Participating Actors:**Lock, Household Devices,Database,Mobile Phone

Preconditions:1.your mobile phone must be stored in database and be authorized.

1. The system displays the menu of available functions; at the door keypad the menu choices are “Lock” and “Unlock.”

Postconditions:The auto-lock timer has started countdown from autoLockInterval.

**Flow of Events for Main Success Scenario:**

® 1. **Tenant**/**Landlord** arrives at the door and selects the menu item “Unlock”

2.include::*AuthenticateUser* (UC-7) and by using mobile phone to unlock the door

¬ 3. **System** (a) signals to the **Tenant**/**Landlord** the lock status, e.g “disarmed,”

(b) signals to **LockDevice** to disarm the lock, and

(c) signals to **LightSwitch** to turn the light on

¬ 4. **System** signals to the **Timer** to start the auto-lock timer countdown

® 5. **Tenant**/**Landlord** opens the door, enters the home [and shuts the door and locks]

Related

Requirements: REQ2,REQ3,REQ5,REQ7,REQ8,REQ9 stated in the table above

Use Case UC-1: Unlock

UC-1：The main test was to see if tenants and landlords could unlock their doors by pairing their phones

with Bluetooth

UC-4:

The main test was to see if a landlord could unlock a tenant's door using his phone, remove his phone

information from the database and then see if the tenant could still unlock the door with his phone

Related Requirements:REQ2,REQ3,REQ7 stated in the table above

Initiating Actors: Any of: Landlords

Actors’ Goal: Retire an existing user account and

disable access

Participating: Database,Mobile Phone

Preconditions: the tenant is logged in the system.

Postconditions:None

**Flow of Events for Main Success Scenario:**

1. **the landlord has retired an existing user account and disable access.**
2. **The system will signal to clear the user account and his phone number from database and disable his access.**

Use Case UC-4:Retire User