Use Case UC-1: Unlock
RelatedRequirements: REQ1, REQ2, REQ3, and REQ5, REQ8
Initiating Actor: Any of: Tenant, Landlord

Actor's Goal: To disarm the lock and enter, and get space lighted up automatically.
Participating

Actors:
LockDevice, LightSwitch, Timer, Bluetooth&NFC

Preconditions:
•Bluetooth&NFC Unlocking unsuccessfully requires inputing password by hand.
• The set of valid keys stored in the system database is non-empty.
• The system displays the menu of available functions; at the door keypad the menu choices are "Lock" and "Unlock."
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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)
¬ 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]

Use Case UC-4: RetireUsers
RelatedRequirements: REQ7
Initiating Actor: Only Landlord

Actor's Goal: To cancel the entry of retired-users.

Actors:
Database

Preconditions:1、需要房东输入独立安全密码或者生物学认证才能有更改权限
2、可以在手机或者电脑上操作

后置条件：认证通过
1、房东启动 app，输入独立密码或者生物学认证成功后进入管理员模式
2、点击租户管理，查找已退房的租户
3、删除租户使用权，点确认，这里可以再加一步验证
4、退出程序，此时退房租户不能再进入房内

Test-case Identifier: Use Case Tested:
Pass/fail Criteria: Input Data: Test Procedure: TC-1 UC-1, main success scenario, and UC-7
The test passes if the user enters a key that is contained in the database, with less than a maximum allowed number of unsuccessful attempts 且手机能正确解锁
Numeric keycode, door identifier Expected Result:
Step 1. Type in an incorrect keycode and a valid door identifier
Step 2. Type in the correct keycode and door identifier
Step3.Use identified Bluetooth or NFC to unlock
Step4.Use unacquainted Bluetooth or NFC to unlock

Step1：System beeps to indicate failure; records unsuccessful attempt in the database; prompts the user to try again
Step 4：System beeps to indicate failure; records unsuccessful attempt in the database; prompts the user to try again. Once overtime the system requires keycode input.

Step 2、3：System flashes a green light to indicate success; records successful access in the database; disarms the lock device.

UC-4
通过/失败判断标准:输入数据:测试过程:TC-2 UC-4、主成功场景、UC-7
如果用户输入数据库中包含的键，且失败次数小于允许的最大次数，旧租户不再能解锁，则测试通过

步骤一：在管理 app 中输入不正确独立密码或者错误识别
步骤二：在管理 app 中输入正确独立密码或者正确识别
步骤三：删除后在登入看信息是否已被修改
步骤四：用删除的租户设备登入

1：无法访问
2：正确访问，进入页面

3：跳出操作提示，操作后显示操作成功
4：无法进入