Use Case 1: Unlock Use Case UC-1: Unlock Related REQ1, REQ3, REQ4 and REQ5 Requirem'ts: Initating Actor: Any of: Tenant, Landlord Actor's Goal: To disarm the lock and enter, and get space lighted up automatically. · Participating Lock Device. Light Switch, Timer Actors · Preconditions: · 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." *Postconditions: The auto-lock timer has started countdown from autoLock Interval. · Flows of Events for Main Success Scenario: -> 1. Tenant /Landbord arrives at the door and selects the menu item "Unlock" 2. include: Authenticate User (UC-7) + 3. System (a) signals to the Tenant/Landlord the lock Status. e.g., "disarmed," (b) signals to Lock Device to disc the lock, and (c) als to Light Switch to twn the bight

€4. System signals to the Timer to start the auto-lock timer count down > 5. Tenant / Landlord opens the door, enters the home Land shut the door and books] Flow of Events for Extensions (Alternate Scenarios): 1a. Intruder open the mobile phone and select the menu Item "Unlock 2a. System (a) signals to the Intruder the lock status, eg. "Unlock failed" (b) signals to Look Device to block

Acceptance tests Nast-case Identifier: TC-1 ilse Case Tested: UC -1, main success genorio, and UC-7 plass/fail Criteria: Before success keep the door locked and auto-lock. The test passes if the user enters apey that is continued in the database, with less than a maximum allowed number of unsuccessful attemps. Maintain a history log of all operations. · Input pata: Numeric key code, door identifier. Test Procedure: Step! Type in an ina correct key code and a valid door identifier Step 2: Type in the correct key code and door identifier Excepted Result: 1. System beeps to indicate failure, records unguccess ful attemp in the database; prompts the user to try again keep the door locked and auto-lock. 2. System flashes a green bight to in dicate success, records successful access in the database; disam the bock device; unlock the door.

* Test-case Identifier: TC-4 Use Case Tested: UC-4. mark success scenario, and uce The test passes if the user that should be removed is successfully removed, & Pass/Fail Criteria: and the user that should not be removed is not removed △Input Data: Remove command. stest Procedure: Step 1: Enter the remove command incorrectly Sep 2: Enter the remove command correctly Excepted Result: Thous failure information; records unsesuccessful attempts in the database; prompts the landbord to try again. 3 Shows successful information: records successful attempts in the database

