

Use Case UC-1: Unlock

Related Requirements: REQ-1, REQ-2, REQ-3, REQ-4, REQ-5, REQ-6

Initiating Actor: Any of: Tenant

Actor' s Goal: To unlock and enter home.

Participating Actors: Lock, Household Devices, Database

Preconditions:

- 1 The set of valid phone numbers stored in the system database is not empty.
- 2 If the door keypad is dark, the door keypad is backlit.
- 3 In the event of an emergency, the lock will be disarmed.

Postconditions:

- 1 e system records the number of failed pairing of locked phones.

Flow of Events for Main Success Scenario:

1. The tenant came to the door and hung the phone on the lock.
2. System (a) signals to the Tenant the lock status,
 System (b) signals to the Lock to be unlocked.
3. Tenant opens the door and enters the home.

Use Case UC-4: RetireUser

Related Requirements: REQ-1, REQ-2, REQ-3, REQ-4, REQ-5, REQ-6

Initiating Actor: Any of: Landlord

Actor' s Goal: To retire an existing user account and disable access.

Participating Actors: Database

Preconditions:

- 1 The set of valid phone numbers stored in the system database is not empty.

Postconditions:

- 1 The system has deleted the user account from the database.

Flow of Events for Main Success Scenario:

1. Landlord started the Database management system.
2. stem reveals the Database to the Landlord.
3. Landlord deletes a user' s account, saves and quit.

Test-case Identifier: TC-1

Use Case Tested: C-1

Pass/fail Criteria: The test passes if the user gives a phone whose phone number is contained in the database, with less than a maximum allowed number of unsuccessful attempts.

Input Data: Phone identifier

Test Procedure:

Step 1. Give an incorrect phone number

Result:

System beeps in an annoying sound to indicate failure;

records unsuccessful attempt in the database;

prompts the user to try again.

Step 2. Give a correct phone number

Result:

System beeps in a peaceful sound to indicate success;

records successful access in the database;

disarms the lock.

Test-case Identifier: TC-2

Use Case Tested: UC-4

Pass/fail Criteria: If the user deactivates an existing user account, and the system does delete or disable it, the test passes.

Input Data: Computer operation

Test Procedure: Expected Result:

Step 1. Use the account which will be retired to open the door;

Result:

The system beeps with a calm voice to indicate success;

records successful access in the database;

disarms the lock.

Step 2. Retire an existing user account T

Result:

he user account is removed from or disabled in the database.

Step 3. Use the removed account to open the door again

Result:

System beeps in an annoying sound to indicate failure;

records unsuccessful attempt in the database;

prompts the user to try again.