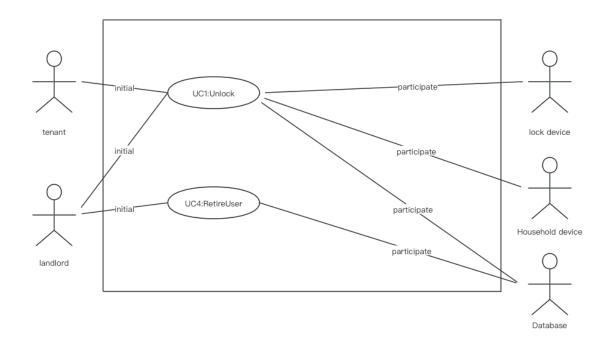
Use case

Mission 1



Mission 2

Use case

Use Case UC-1:			Unlock				
Related Requirements:			REQ-2, REQ-3, REQ-4 and REQ-5 stated in the table of REQs.				
Initiating Actor:			Any of: Tenant, Landlord				
Actor's Goal:			Unlock and enter home				
Participating Actors:			: Lock, household devices, Database				
Preconditions:		s:	 The set of valid account stored in the system database is not empty. At the door keypad the menu choices are "Lock" and "Unlock". 				
Postconditions:		าร:	The auto-lock timer has started countdown.				
Flow of Events for Main Success Scenario:							
\rightarrow	1.		Tenant/Landlord arrives at the door and selects the menu item "Unlock". And use the bhone to disarm the lock;				
←	2.	System	system (a) signals to the Tenant/Landlord the lock status, e.g., "disarmed",(b) signals to LockDevice to disarm the lock if the phone is valid.				
←	3.	Add su	dd successful or unsuccessful access log to database.				
←	4.	System signals to the Timer to start the auto-lock timer countdown.					
\rightarrow	5.	Tenant/Landlord opens the door, enters the home (and shuts the door and locks).					

Use Case UC-4:			RetireUser				
Related Requirements:			REQ-7 stated in the table of REQs.				
Initiating Actor:			Landlord				
Actor's Goal:			Retire an existing user account and disable access.				
Participating Actors			: Database				
Preconditions:			The user to be retired exists in the database.				
Postconditions:			The motified data has been stored in the database.				
Flow of Events for Main Success Scenario:							
\rightarrow	1.	Landlord selects the menu item "Manage user accounts".					
←	2.	System (a) displays the options of activities availables to the landlord(Including "Add User" and "Remove User"), and (b) prompt the landlord to make a selection.					
\rightarrow	3.	Landlord select "Remove User", and choose the certain user to be retired.					
←	4.	System (a) stored the operation result and (b) signals completion.					

Use case 2

Mission 3

Test-case Identifier: TC-1
Use Case Tested: UC-1

Pass/fail Criteria: The test passes if the user use his own phone that is contained in the database, with less than a maximum allowed number of unsuccessful attempts

Input Data: Bluetooth signal

Test Procedure: Expected Result:

Step 1. Use the invalid phone to disarm the lock.

System beeps to indicate failure; records unsuccessful attempt in the database; prompts the user to try again.

System flashes a green light to indicate success; records successful access in the database; disarms the lock device

Test-case Identifier:	TC-2			
Use Case Tested:	UC-4			
Pass/fail Criteria: The this		The test passes if the landlord retired the user in the database, his user can not disarm the lock anymore.		
Input Data:	Numeri	ic keycode, door identifier		
Test Procedure:	1	Expected Result:		
Step 1. Before retiring the use this user's phone to dethe lock.	sarm r	System flashes a green light to indicate success; records successful access in the database; disarms the lock device		
Step 2. Retire the user and use the user's phone to dithe lock again.	then sarm r	System flashes a red light to indicate failure; signals "Invalid User"; record illegal access in the database; lock remains locked.		

Use case 3