Use Case UC-1: Unlock							
Related			REQ1, REQ3, REQ4, and REQ5 stated in Table 2-1				
Requirements:							
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				
Preconditions:		ions:	The set of valid mobile phone 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:		tions:	The auto-lock timer has started countdown from autoLockInterval.				
Flow of Events for Main Success Scenario:							
\rightarrow	1 2	1	nant/Landlord arrives at the door and selects the menu item "Unlock"				
←	3	` `	System (a) signals to the Tenant/Landlord the lock status, e.g., "disarmed," (b) signals to ockDevice to disarm the lock, and (c) signals to LightSwitch to turn the light on				
←	4	System si	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]					
Flow of Events for Extensions (Alternate Scenarios):							

Test-case Identifier: TC-1

Use Case Tested: UC-1, main success scenario

Pass/fail Criteria: The test passes if the user unlock the doors by using his own mobile phone, the system

will block when it detects multiple lock-phone pairing failures.

Input Data: mobile phone, door identifier

Test Procedure:	Expected Result:
Step 1. Using incorrect mobile phone and a valid door identifier.	System beeps to indicate failure; records unsuccessful attempt in the database; prompts the user to try again
Step 2. Using correct mobile phone and door identifier.	System flashes a green light to indicate success; records successful access in the database; disarms the lock device.

Use Case UC-4: RetireUser						
Related			REQ6 in Table 2-1			
Requirements:						
Initiating Actor:			Landlord			
Actor's Goal:			Retire an existing user account and disable access.			
Participating Actors:			Database			
Preconditions:			The set of valid mobile phone 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:			an existing user account was be retired and access was be disabled			
Flow of	n Success Scenario:					
\rightarrow	1	Landlord retire an existing user account and disable access.				
\rightarrow	2	Tenants using his own mobile phone to unlock the door.				
←	3	System beeps to indicate failure and tenants can not enter the room				
Flow of Events for Extensions (Alternate Scenarios):						

Test-case Identifier: TC-7

Use Case Tested: UC-1, main success scenario

Pass/fail Criteria: The tenant can no longer enter the room after the tenant has deleted the mobile phone

account in the database

Input Data: mobile phone, door identifier

Test Procedure:	Expected Result:				
The tenant using his own mobile phone to unlock the doors.	System using the Bluetooth network to detect the proximity of user's phone and beeps to indicate failure, the tenant can not enter the room.				
The tenant using his own mobile phone to unlock the doors.	System flashes a green light to indicate success; records successful access in the database; disarms the lock device.				