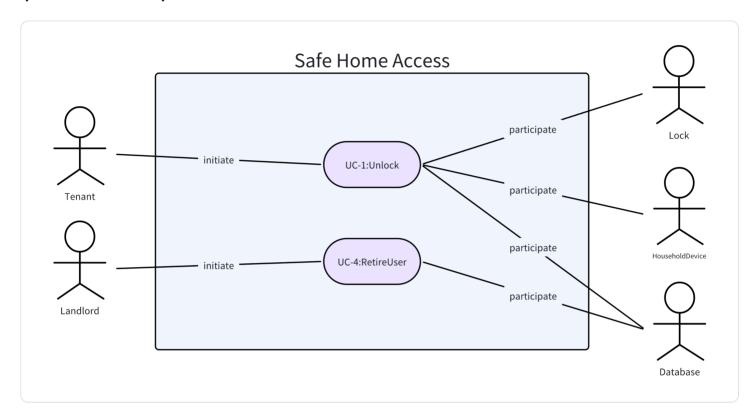
# assignment\_1

Draw use case diagram for UC-1 (Unlock) and UC-4 (RetireUser)



Write the use case schemas of UC-1 and UC-4

Use case schemas of UC-1

Use Case UC-1:		Unlock		
Related Requirements:		REQ1, REQ2, REQ3 And REQ4		
Initiating Actor:		Tenant		
Actor's Goal:		To disarm the lock and enter, and get space lighted up automatically.		
Participating Actors:		Lock, Household Devices, Database, Landlord		
Preconditions:		The set of phone machine code 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 autoLockInterval.		
Flow of Events for Main Success Scenario:				
>1.	Tenant send the unlock command from his phone			
<2.	<b>System</b> compares the phone with the database to check whether the phone is authorized(authorized success). <b>System</b> signals to the <b>Tenant</b> the lock status, e.g., "disarmed,", <b>System</b> signals to <b>Lock</b> to disarm the lock, and <b>System</b> signals to <b>Household Devices</b> open the set of open devices.			
>3.	System signals to the Timer to start the auto-lock timer countdown			
<4.	<b>Tenant</b> opens the door, enters the home [and shuts the door and locks], <b>System</b> record the devices that enter the room and send a confirmation message to the <b>Tenant/Landlord</b>			
Flow of Events for Extensions (Alternate Scenarios):				
>1.	Tenant (Not authorized) send the unlock command from his phone			
<2.	<b>System</b> compares the phone with the database to check whether the phone is authorized(authorized fail). <b>System</b> signals to the <b>Tenant</b> Unlocking failure, and record the devices that try to enter the room and send a confirmation message to the <b>Tenant/Landlord</b>			
>3.	Tenant send multiple unlock commands from his phone			
<4.	System blocks the phone temporarily and alerts the Tenant/Landlord.			

#### Use case schemas of UC-4

Use Case UC-4:		RetireUser		
Related Requirem'ts:		REQ7		
Initiating Actor:		Landlord		
Actor's Goal:		Remove an authorized account		
Participating Actors:		Tennant		
Preconditions:		The target user exists in the database		
Postconditions:		Target user can not unlock the door		
Flow of Events for Main Success Scenario:				
>1.	Landlord selects a user for retirement on the administrator interface			
<2.	<b>System</b> verifies administrator permissions, retires the user account, updates the database and sends information to <b>Landlord</b> .			

## Write the acceptance tests for UC-1 and UC-4

### Acceptance tests for UC-1

Test-case Identifier: TC-1			
Use Case Tested: UC-1, r		C-1, main success scenario	
Pass/fail Criteria:	·	es if the user's mobile device matches the database and the empts is less than the maximum number of attempts.	
Input Data:	mobile device bluetooth network identifier		
Test Procedure:		Expected Result:	
Step 1. Use an unauthorized mobile deviunlock command.	ce to send	System denies access; records unauthorized attempt in the database; sends message to <b>Tenant's</b> mobile device and <b>Landlord's</b> mobile device.	
Step 2. Send multipleunauthorized unloc	k commands.	When <b>System</b> exceed the maximum number of attempts, <b>system</b> blocks the mobile device temporarily and alerts the <b>Tenant</b> and <b>Landlord</b> .	
Step 3. Use an authorized mobile device unlock command.	to send	<b>System</b> unlocks the door; records the entry in the database; sends a success notification to <b>Tenant's</b> mobile device and <b>Landlord's</b> mobile device.	

### Acceptance tests for UC-4

Test-case Identifier:	TC-4		
Use Case Tested:	UC-4, main success scenario		
Pass/fail Criteria:	The test passes if the Landlord can delete an authorized user, and the user can not unlock the door afterword		
Input Data:	Landlord's mobile device identifier, the target tenant's account		
Test Procedure:		Expected Result:	
Step 1. Using a non-host account to try to delete		The <b>system</b> returns an error message indicating no permission	
Step 2. Select a non-existent user account to retire.		The <b>system</b> returns an error indicating that the account does not exist	
Step 3. Select an existing user account to retire.		System retires the user account and confirms the action to the Landlord.	
Step 4. Use the mobile device associated with the retired user to send unlock command.		System denies access; records unauthorized attempt in the database; sends message to <b>Tenant's</b> mobile device and <b>Landlord's</b> mobile device.	