

Burglar alarm operation											
ID	UC8		ID	UC9		ID	UC10		ID	UC11	
Actors	1.Card readers 2.console		Actors	1.Card readers 2.console		Actors	None		Actors	1.Window sensors 2.Floor sensor 3.Door sensors 4.Panic alarm buttons	
Name	Open system		Name	Close system		Name	Trigger when the system is on		Name	Trigger when the system is off	
Description	The burglar alarm is activated at specific times. On and off activation times can be added for each day of the week, Monday to Sunday. There is also the option to put the system into the activated state for a fixed number of days, this is to allow for holidays where the alarm will be active all the time (24 hours a day)		Description	User shutdown system		Description	The anti-theft alarm system is activated because the door sensor, window sensor, floor sensor are triggered or the panic button is artificially pressed		Description	1.Pressing the panic button artificially alarms the system even though it's not activated 2.Any sensor can be set to be permanently on, and these sensors trigger an alarm even though the system is not activated	
Pre-conditions	The card reader is available and the console is available		Pre-conditions	The card reader is available and the console is available		Pre-conditions	1. The system is activated 2. The door sensor works 3. The window sensor works 4. Floor sensor works 5. Alarm button works		Pre-conditions	1. The system is activated 2. The door sensor works 3. The window sensor works 4. Floor sensor works 5. Alarm button works	
Event flow	1. The user swipes the card using the card reader 2. The user enters the password through the console		Event flow	1. The user swipes the card using the card reader 2. The user enters the password through the console		Event flow	1.The user activates the system by inserting the card and entering the matching security password 2.The anti-theft alarm system is activated because the door sensor, window sensor, floor sensor are triggered or the panic button is artificially pressed 3.System enter the UC16, UC17,UC18 and UC19		Event flow	1. The system is not activated 2. Pressing the panic button artificially alarms the system 3.Permanently on sensors are triggered 4.System enter the UC16, UC17 ,UC18 and UC19	
Post-condition	User successfully access the guard against theft system, user can set up the system.		Post-condition	1.The user successfully shut down the system 2.deactivate the alarm.		Post-condition	The burglar alarm is triggered, a warning sound and flashing lights are activated also the police are sent a message		Post-condition	The burglar alarm is triggered, a warning sound and flashing lights are activated also the police are sent a message	
Includes	None		Includes	None		Includes	UC12 UC13 UC14 UC15		Includes	UC12	
Extensions	UC10		Extensions	UC11		Extensions	UC16 UC17 UC18 UC19		Extensions	UC16 UC17 UC18 UC19	
Triggers	User enter the anti-theft system password that matched the card		Triggers	User enter the password that matched the card		Triggers	1.If a door is opened (detected via door sensor) and the system is active 2.If a window (detected via window sensor) is opened and the system is active 3.If floor sensor is detected and the system is active 4.If a panic button is pressed and the system is active		Triggers	1.panic button is pressed and the system is inactive 2.Any sensor (door, floor or window sensor) can be designated as always on. These sensors will trigger the alarm immediately even if the system is not active.	
ID	UC14		ID	UC15		ID	UC16		ID	UC17	
Actors	Floor sensor		Actors	Door sensors		Actors	Burglar alarm speaker		Actors	Flashing lights	
Name	Floor sensor is detected		Name	Door is opened		Name	Warning sound		Name	Flashing lights	
Description	The floor was trampled causes the window sensor to be activated		Description	The window being opened causes the window sensor to be activated		Description	When the alarm is activated, the system controls the burglar alarm speaker to emit a warning sound		Description	The system controls the light flashing when the alarm is triggered	
Pre-conditions	Floor sensors works		Pre-conditions	Door sensors works		Pre-conditions	Burglar alarm speaker works		Pre-conditions	Flashing lights works	
Event flow	1.The floor was trampled 2. The floor sensor is activated		Event flow	1.The door was opened 2. a number of the doors can be assigned as designated entry points. These doors are to allow entry to the building by authorised staff. If these doors are opened when the system is activated, the console issues an audio warning and a countdown begins 3. The window sensor is activated		Event flow	1.the alarm is activated 2.the burglar alarm speaker to emit a warning sound		Event flow	1.The alarm is activated 2.Flashing lights	
Post-condition	1.An alarm is triggered. 2.System enter the UC16, UC17,UC18 and UC19		Post-condition	1.An alarm is triggered. 2.System enter the UC16, UC17,UC18 and UC19		Post-condition	The system sounded an alarm		Post-condition	Flashing lights	
Includes	None		Includes	None		Includes	None		Includes	None	
Extensions	None		Extensions	None		Extensions	None		Extensions	None	
Triggers	The floor was trampled		Triggers	1.The door was opened 2. The door to the designated entrance of the building is opened when the system is turned on		Triggers	The security system is activated		Triggers	The security system is activated	
ID	UC18		ID	UC19		ID	UC18		ID	UC19	
Actors	1.Card readers 2.console		Actors	police man		Actors	1.Card readers 2.console		Actors	police man	
Name	To de-activate the alarm or disble the alarm		Name	Call the police		Name	To de-activate the alarm or disble the alarm		Name	Call the police	
Description	1.Employees can disalbert by swiping their cards 2.The operator enters the alarm code to reset the alarm system		Description	After the alarm system is triggered, the system automatically alarms		Description	1.Employees can disalbert by swiping their cards 2.The operator enters the alarm code to reset the alarm system		Description	After the alarm system is triggered, the system automatically alarms	
Pre-conditions	The card reader is available and the console is available		Pre-conditions	The alarm system works		Pre-conditions	The card reader is available and the console is available		Pre-conditions	The alarm system works	
Event flow	1.Employees can open doors controlled by sensors that are permanently open by swiping a card that disactivates the alarm for a short period of time 2.When an unauthorized person enters the designated entrance of the building, the system starts a countdown, and if the system is not disabled by the end of the countdown, an alarm is triggered 3.Entering a code in the alarm console and presenting a valid card can disarm or police the alarm, and the alarm code can be used by the operator to configure the burglar alarm		Event flow	1.The alarm is triggered 2.The system automatically alarms		Event flow	1.The alarm is activated 2.Flashing lights		Event flow	1.The alarm is triggered 2.The system automatically alarms	
Post-condition	1. The alarm system is disabled 2. The alarm system is reset		Post-condition	The system automatically alarms		Post-condition	Flashing lights		Post-condition	The system automatically alarms	
Includes	None		Includes	None		Includes	None		Includes	None	
Extensions	None		Extensions	None		Extensions	None		Extensions	None	
Triggers	1.The staff swiped the card 2.The operator enters the alarm code		Triggers	The alarm is triggered		Triggers	The security system is activated		Triggers	The alarm is triggered	