

Extract product line from Smart Home specifications

asmb3

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1 Scenario SC01

1.1 Description:

Register inhabitant

1.2 Related feature

Smart Home

1.3 Flow of events

Code	Feature	User Action	System Response
SC01.1	None	The home owner selects the register inhabitant option in the security configuration menu.	The inhabitant personal form is displayed.
SC01.2	None	The home owner fills in the inhabitant personal form and selects the proceed option.	The system asks the inhabitant to capture her fingerprint.
SC01.3	None	The new inhabitant put her finger in the fingerprint reader.	The system captures the mark of the inhabitant fingerprint and asks the home owner to proceed
SC01.4	None	The home owner selects the proceed option.	The system asks the home owner her configuration password.
SC01.5	None	The home owner fills in the configuration password and selects the proceed option.	The system register the new inhabitant, allowing she to get access to the smart house.

2 Scenario SC02

2.1 Description:

Request access to the smart home

2.2 Related feature

Inhabitant Authorization

2.3 Flow of events

Code	Feature	User Action	System Response
S2.4B	Fingerprint	-	The system opens the front door and register the occurrence.
SC02.1A	Password	The inhabitant request access to the home at the main entrance.	The system requests to the user to pass the smart card.
SC02.2A	Password	The inhabitant inserts the smart card into the card reader.	The system asks the inhabitant's password, in order to authorize her access to the smart home.
SC2.1B	Fingerprint	The inhabitant request access to the home at the main entrance.	The system asks the inhabitant to capture her fingerprint.
SC2.2B	Fingerprint	The new inhabitant put her finger in the fingerprint reader.	The system recognizes the fingerprint impression.
SC2.3A	None	The inhabitant informs her password.	The system verifies that the password is valid for the registered inhabitant.
SC2.3B	Fingerprint	-	The system displays the message of successful authorization.
SC2.4A	Password	-	The system displays the message of successful authorization.
SC2.5A	Password	-	The system opens the front door and register the occurrence.
SC2.5B	sixty seconds	-	After sixty seconds, the front door is closed.
SC2.6A	thirty seconds	-	After thirty seconds, the front door is closed.

3 Scenario SC03

3.1 Description:

Guest request access to the smart home

3.2 Related feature

Guest Authorization

3.3 Flow of events

Code	Feature	User Action	System Response
3.6	Guest Authorization	-	The system opens the front door and register the occurrence.
SC3.1	Guest Authorization	The guest request access to the home at the main entrance.	The system asks the guest name and the reason for requesting access to the house.
SC3.2	Guest Authorization	The guest fills in the requested information.	The system takes a guest photograph and sends one message to the home owner mobile device.
SC3.3	Guest Authorization	-	The system asks for the guest to wait a few minutes
SC3.4	Guest Authorization	The home sends an authorization allowing the guest to enter into the house.	The system receives the authorization message.
SC3.5	Guest Authorization	-	The system displays the message of successful authorization.
SC3.7	thirty seconds	-	After <i>TimetoClose</i> , the front door is closed

4 Scenario SC04

4.1 Description:

Detect an attempt to intrude the house

4.2 Related feature

Intrusion Detection

4.3 Flow of events

Code	Feature	User Action	System Response
SC4.1A	Emit Sound Alarm	The presence sensor identifies that someone (or something) is trying to intrude into the smart home. This might be deduced by observing any suspect event (forcing or braking) in the external doors and windows	The system emits the configured internal sound alarm.
SC4.1B	Emit Sound Alarm	The presence sensor identifies that someone (or something) is trying to intrude into the smart home. This might be deduced by observing any suspect event (forcing or braking) in the external doors and windows	The system emits the configured internal sound alarm.
SC4.2A	Place a Phone Call	-	The system places a call to the police department.
SC4.2B	Place a Phone Call	-	The system places a call to the police department.
SC4.3A	Lock Doors	-	The system locks the access to the bedrooms.
SC4.4A	Switch the lights on	-	The system turns on the external and internal lights.

5 Scenario SC05

5.1 Description:

Detect smoke or high variances of temperature inside the smart home

5.2 Related feature

Fire Detection

5.3 Flow of events

Code	Feature	User Action	System Response
SC5.1	Emit Sound Alarm	The fire sensor identifies a possible fire occurrence (based on smoke or temperature variation).	The system emits the configured internal sound alarm.
SC5.2	Place a Phone Call	-	The system places a call to the fire guard department.