**Use Cases for *SoSafe* Home Security System:**

***Use Case 1:***

**Actors:** User (i.e., home owner)

**Type:** Primary, Essential

**Description:** User activates motion and/or temperature sensors in rooms of his/her choice in his/her house.

**Scenario Details** (Typical course of events)

|  |  |
| --- | --- |
| **Actor Action**  *1. User logs into the system using his/her username and password.*  *3. User selects and saves rooms in which he/she wants to activate motion sensors and temperature sensors.*  *5. User sets/ changes schedule during which the selected sensors should remain active.*  *7. User logs out.* | **System Response**  *2. System checks log in information and if correct, logs user in.*  *4. System saves information and indicates user’s choice on GUI.*  *6. System saves schedule and activates sensors in the selected rooms according to schedule.* |

Alternative scenario:

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| --- | --- |
| **Actor Action**  *1. User logs into the admin panel using wrong username and password.* | **System Response**  *2. System displays error message and does not log user in.* |

***Use Case 2:***

**Actors:** Fire/ Intruder

**Type:** Primary, Essential

**Description:** System responds to a fire/ break in.

**Scenario Details** (Typical course of events)

In case of fire:

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| **Actor Action**  *1. A fire starts in a room where the temperature sensor is on.* | **System Response**  *2. The temperature sensor senses it. The system:*   * *sounds the fire alarm.* * *calls the fire department* * *sends an email to the user.* * *logs this information in the panel.* |

In case of break-in:

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| --- | --- |
| **Actor Action**  *1. An intruder breaks into a room where the motion sensor is ON.* | **System Response**  *2. The motion sensor senses it. The system:*   * *calls the police.* * *sends an email to the user.* * *logs this information in the panel.* |
|  |  |

Alternative Scenario:

|  |  |
| --- | --- |
| **Actor Action**  *1. A fire starts/intruder breaks into a room where the respective sensor is OFF.* | **System Response**  *2. As sensor does not sense it, the system does nothing.* |
|  |  |

***Use Case 3:***

**Actors**: User

**Type:** Primary, Essential

**Description:** User viewsbill for current month

**Scenario Details** (Typical course of events)

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| --- | --- |
| **Actor Action**  *1. User logs into the system using his/her username and password.*  *3. User views the bill page.*  *5. User logs out.* | **System Response**  *2. System checks log in information and if correct, logs user in.*  *4. System generates bill for current month depending on the number of sensors configured, number of hours used and charge per sensor.* |