**Use Case Description Template**

**Adopted with some modifications:** [**https://www.projectmanagementdocs.com/**](https://www.projectmanagementdocs.com/)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of Use Case:** | Detecting smoke in the home | | | |
| **Created By:** | SLS | | **Last Updated By:** | M.Davies |
| **Date Created:** | 02/27/2023 | | **Last Revision Date:** | 02/27/2023 |
|  | |  | | |
| **Description:** | | If the smoke alarm in the home sounds, the senior has the option to declare it as a false alarm, otherwise 911 will be called and the doors in the house will be unlocked automatically. Immediate family members and neighbours will also be notified of the situation. | | |
| **Actors:** | | The senior who lives in the home, immediate family members, neighbours local fire department, smoke detector, main doors. | | |
| **Preconditions:** | | 1. A smoke alarm is installed in the home and connected to the smart home control panel. 2. The senior’s phone number is linked to the system. 3. Immediate family members’ phone numbers are linked to the system. 4. The senior’s neighours’ phone numbers are linked to the system 5. The senior has not declared the alarm as false via control panel, satellite device or by voice | | |
| **Postconditions:** | | 1. The local fire department quickly arrives at the home. 2. Immediate family members are notified of the situation. 3. The senior is notified if/when it is safe to re-enter the home. | | |
| **Activity Diagram representing main flow, alternative flows and exceptions (red blocks are exceptions)** | |  | | |
| **Non-Functional Requirements:** | | The following requirements must be met before execution of the use case   1. The system must be installed properly by an SLS employee, and a set of tests are run in order to ensure the installation was successful. | | |