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# Document Version

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| --- | --- | --- | --- | --- |
| No | Update | Name | Date | Version |
| 1. | Initial version |  |  | 1.0 |

# 1. Purpose

* 1. Intended Audience

This SRS document describes the System Requirements and Software Design for a Smart fire alert system, and the target audience are System and Software Engineers working on the development of this project.

1.2 Intended Use

The SRS defines the overall System Architecture and Requirements as well as the Software Architecture and Design. This document is also containing the definition of the System Requirements which shall be used as the input for System Test cases and Software Unit Test cases

## 1.4. Definitions and Acronyms

|  |  |
| --- | --- |
| **Acronym** | **Description** |
| IR | Infra-Red |
| LED | Light Emitting Diode |
| NFC | Near Field Communication |
| SW | Software |
| HW | Hardware |

# 2. Overall System Description

## 2.3. Functional Requirements

|  |  |
| --- | --- |
| **REQ\_ID** | **Requirement** |
| REQ-01 | **Check sensors for changes.**   * Temperature sensors * Visual sensors * Light sensors * Smoke detectors |
| REQ-02 | If one of the sensors detect a change (etc increase in temp/smoke/light).   * Enable Alarm. |
| REQ-03 | If two of the sensors detect a change.   * Enable Fire Suppression * Notify SCDF |