HSI

for

Digital Elevator

Version 1.0 proposed

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Revision History

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | **Version** | **Author** | **Date** | **Change Description** | **Document Status** |
| HSI\_DIGITAL\_ELEVATOR | V\_1.0 | Ahmed Refaat,  Marcelle Samir | Jan 23, 2020 | Initial creation of the HSI Document. | Proposed |

# 1. Introduction

## Purpose

This project aims at developing a Digital Elevator with lock system to be more secure and have specific functionalities.

The purpose of this document is to present a detailed description of the Digital Elevator System. It will explain the purpose, scope and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate.

## Project Scope

This software system will be an Embedded System for a digital elevator. This system will be designed to secure the usage of the elevator and handle the movement of it. By having a limited number of resigned users with unique ID and entered password, we can secure the usage of the elevator. Using some developed buttons, the users can easily control the movement of the elevator.

2. Hardware/Software specification

## ****2.1 Req \_ DIGELV \_HSI\_01\_V1.0****

**{**

**Enter users data.**

**Hardware needed:**

**- keypad**

**it’s used as input device to enter user’s name and password**

**- LCD(2\*16)**

**It’s used as output device to display the user’s entered information**

**- Micro controller**

**The main component to write the software on**

**(2.1 Req \_ DIGELV \_CYRS\_01\_V1.0)**

**}**

## ****2.2 Req \_ DIGELV \_ HSI \_02\_V1.0****

**{**

**Display ok if the ID is correct, up and down buttons**

**- LCD**

**- 2 push buttons**

**(2.3 Req \_ DIGELV \_CYRS\_03\_V1.0)**

**}**

## ****2.3 Req \_ DIGELV \_ HSI \_03\_V1.0****

**{**

**Check if the ID or password isn’t correct**

**- LCD**

**- Keypad**

**- buzzer**

**(2.4 Req \_ DIGELV \_CYRS\_04\_V1.0)**

**}**

## ****2.4 Req \_ DIGELV \_ HSI \_04\_V1.0****

**{**

**reset functionality**

**- reset push button**

**(2.1 Req \_ DIGELV \_CYRS\_05\_V1.0)**

**}**