CYRS

for

Digital Elevator

|  |  |
| --- | --- |
| Version | Status |
| V1.2 | Proposed |

Prepared by /   
- Moustafa Ghareeb  
- Donia Mohamed

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Revision History

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| --- | --- | --- | --- | --- |
| **Name** | **Version** | **Author** | **Date** | **Change Description** |
| CYRS\_DIGITAL\_ELEVATOR | V\_1.0 | Moustafa Ghareeb,  Donia Mohamed | Jan 21, 2020 | Initial creation of the CYRS Document. |
| CYRS\_DIGITAL\_ELEVATOR | V\_1.1 | Moustafa Ghareeb,  Donia Mohamed | Jan 23, 2020 | Different format of the CYRS Document. |
| CYRS\_DIGITAL\_ELEVATOR | V\_1.2 | Moustafa Ghareeb,  Donia Mohamed | Jan 24, 2020 | Some changes according to customer |

1. Introduction

## 1.1 project description

**This project aims to have a digital elevator and will be more secured by lock system and it can support many features as:**

* **Lock system at calling the elevator**
* **Up and Down movement**
* **On / Off for the elevator and reset.**

## 1.2 Flow Chart

Micro controller

Two bush buttons

LCD

Keypad

Buzzer

Motor to simulate movement

2. CYRS specification

## ****2.1 DIGELV \_CYRS\_01\_V1.0****

**{**

|  |  |
| --- | --- |
| ****REQ ID**** | ****DIGELV \_CYRS\_01\_V1.0**** |
| ****Title**** | **Number of users** |
| ****Description**** | **The supported maximum number of users are 10** |

**}**

## ****2.2 DIGELV \_CYRS\_02\_V1.0****

**{**

|  |  |
| --- | --- |
| ****REQ ID**** | ****DIGELV \_CYRS\_02\_V1.0**** |
| ****Title**** | **Limitation for each User** |
| ****Description**** | **by setting your username and password for the first time**  **1) User name must be First name by max 10 characters**  **2) The new password must be 4 digits**  **3) When the user enter setting the ID is already taken system will ask him about another one** |

## ****2.3 DIGELV \_CYRS\_03\_V1.0****

**{**

|  |  |
| --- | --- |
| ****REQ ID**** | ****DIGELV \_CYRS\_03\_V1.0**** |
| ****Title**** | **The behavior of elevator when the user enter the ID correct** |
| ****Description**** | **1) The LCD will display OK**  **2) He can access the elevator by using two buttons up/down** |

**}**

## ****2.4 DIGELV \_CYRS\_04\_V1.0****

**{**

|  |  |
| --- | --- |
| ****REQ ID**** | ****DIGELV \_CYRS\_04\_V1.0**** |
| ****Title**** | **The behavior of elevator when the user enter ID not correct** |
| ****Description**** | **1) The user has max 3 trials**  **2) If the 3 trails not correct the LCD will display NOK and buzzer will fire** |

**}**

## ****2.5 DIGELV \_CYRS\_05\_V1.0****

**{**

|  |  |
| --- | --- |
| ****REQ ID**** | ****DIGELV \_CYRS\_05\_V1.0**** |
| ****Title**** | **The reset functionality** |
| ****Description**** | **A reset for whole system is done when pressing on/off button for 2 sec** |

**}**

3. The relation between CRS and CYRS

|  |  |
| --- | --- |
| CYRS | CRS |
| ****Req \_ DIGELV \_CYRS\_01\_V1.0**** | ●You have 10 users for this elevator |
| ****Req \_ DIGELV \_CYRS\_02\_V1.0**** | **●Each user has a Username and password.** **●When the user calling the elevator for the first time , the system will acquire him to enter New ID “First name ” by max 10 character and a new password “\*\*\*\*” 4 digits then he is OK to use the Elevator** |
| ****Req \_ DIGELV \_CYRS\_03\_V1.0**** | ●When the user is calling the Elevator for the second time , the system will request him to enter his ID and pass to use the ELEV.●when user is setting the ID is it already taken system has to ask for another one.●When pass for the given ID is correct the system should give display OK and start moving up / Down as the request from the user. |
| ****Req \_ DIGELV \_CYRS\_04\_V1.0**** | ●When the Pass of the given ID is wrong the system should display NOK with Buzz soundThe user has 3 trials then blocked for 5 sec |
| ****Req \_ DIGELV \_CYRS\_05\_V1.0**** | ●A reset for the whole system is done when pressing On/Of button for 2 sec |

3. The Reference Document table

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| Version | Status |
| V1.0 | Draft |
| V1.1 | Draft |
| V1.2 | Proposed |