**THE DOOR LOCK SECURITY**

**Description:**

The door lock security system is used to ensure security for rooms, houses, entrances, offices,.... Each lock security will have a different password and if you want to go throw, you must enter the correct password. If you enter the password more than 5 times, the system will alarm.

**FUNCTION REQUIREMENT**

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| Label | Description | Note |
| R-1.1 | Display words “please enter pass” |  |
| R-1.2 | Shall be able to enter the password from keypad |  |
| R-1.3 | Allow counting the number of password entries |  |
| R-1.4 | Check password, no more than 5 times not correct |  |
| R-1.5 | Can enter password again if it is not over 5 times |  |
| R-1.6 | If it is over 3 times, a buzzer will be activated |  |
| R-1.7 | If password is correct, turn on server motor and unlock |  |
| R-1.8 | Display “Successful access” or “Unsuccessful access” |  |

**NON - FUNCTIONAL REQUIREMENT**

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| Label | Description | Note |
| R-2.1 | Measure of device should be about 10 inches diagonally |  |
| R-2.2 | The device weight should be about 400 grams |  |
| R-2.3 | The shape of device must be suitable for its position |  |
| R-2.4 | Buzzer sound pressure at distance of 1m is 60dB |  |
| R-2.5 | Shall have LCD display, no smaller than 2 inch |  |
| R-2.6 | Led and buzzer turn off after 5 minutes |  |
| R-2.7 | Shall use voltage supply about 12V |  |