**Digital Elevator PO4\_DGELV**

**Definition :**

This project aims to have a digital Elevator with lock system

**Features:**

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

**Key Elements :**

* You have 10 users for this Elevator
* 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
* 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.
* When the Pass of the given ID is wrong the system should display NOK with Buzz sound
* The user has 3 trials then blocked for 5 sec
* Calling the ELEV is done by Up/Down switches
* A reset for the whole system is done when pressing On/Of button for 2 sec

Note : simulate the Movement up and down by a motor