Panic Alarm System for elderly

Introduction

This project is about making a hand mounted panic alarm system for elderly. The device has a Button that sends an alert alarm email to the receiving email whenever the button is pressed, indicating the Danger to the family members & an led light is turned on to indicate the message is sent. It uses ESP32 microcontroller as hardware. Thinger. io as a cloud platform, Arduino IDE as a software.

Requirements:

1. **Hardware**

   ESP32 Microcontroller
   LED
   Button
   PCB or Perfboard
   3 x 1.5 Volts battery
   Jumper Wires

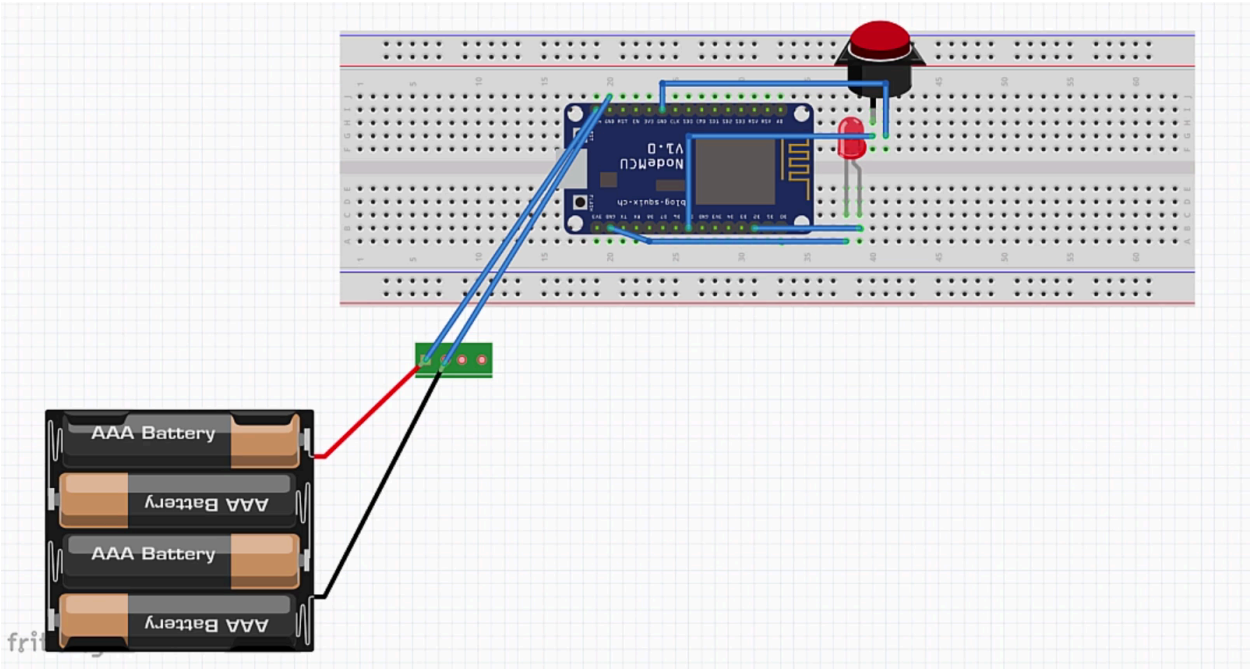
2. **Software**

   Arduino IDE

3. **Cloud Platforms**

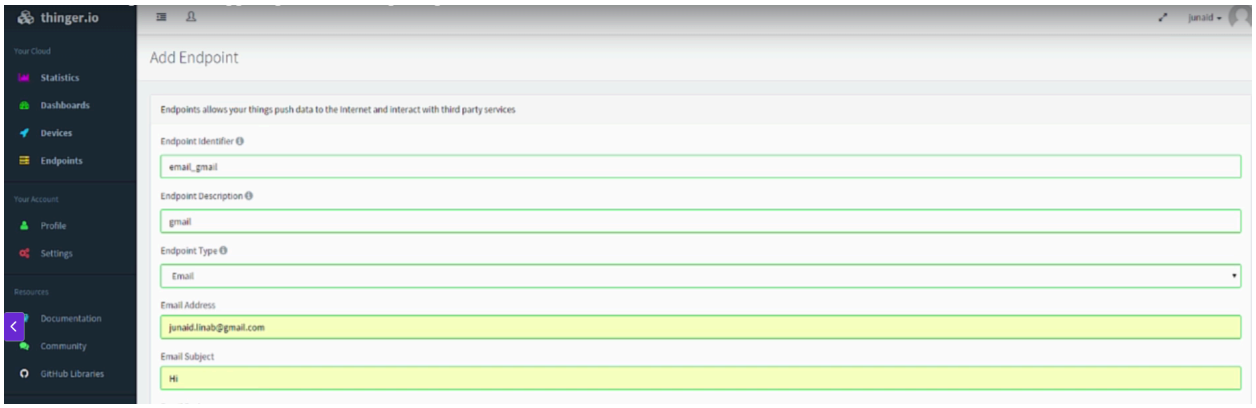
   Thinger. io

Circuit Diagram



Thinger . io Cloud platform

Do not forget to add the Trigger & email endpoint in cloud service



Code:

```
#include <SPI.h>
#include <ESP8266WiFi.h>
#include <ThingerWifi.h>

ThingerWifi thing("junaid", "nm1", "1234567");
int pushPin = 12; //  Pin 6 on Node MCU   //the digital pin connected to the PIR sensor's output
int ledPin = 4;  // Pin 2 on NodeMCU
int val = 0;     // variable for reading the pin status


void setup() {

   pinMode(ledPin, OUTPUT);  // declare LED as output
  pinMode(pushPin, INPUT_PULLUP);// declare pushbutton as input
  Serial.begin(9600);

    //connecting to WIFI
   thing.add_wifi("NETGEAR45", "curlybird210");
  Serial.println("entering the gates");
}

void loop(){

 val = digitalRead(pushPin);
  Serial.println(val);// read input value
  if (val == LOW) {        // check if the input is HIGH (button released)
    digitalWrite(ledPin, HIGH);  // turn LED OFF
    delay(1000);
        digitalWrite(ledPin, LOW);

      thing.handle();
          thing.call_endpoint("email");
          delay(5000);
   // digitalWrite(inPin, HIGH);
  } else {
    digitalWrite(ledPin, LOW);  // turn LED ON
  }

}
```