

## PROJECT DEVELOPMENT PHASE

### SPRINT-3

<b>DATE</b>	17-11-2022
<b>TEAM ID</b>	PNT2022TMID32019
<b>PROJECT TITTLE</b>	IoT Based Safety Gadget for ChildSafety Monitoring and Notification

#### PANIC BUTTON CODE:

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

```
#define WLAN_SSID "CircuitLoop"
```

```
#define WLAN_PASS "circuitdigest101"
```

```
char server[] = "mail.smtp2go.com";
```

```
WiFiClient Client;
```

```
const int button = 2;
```

```
void setup() {
```

```
    pinMode(button,INPUT);
```

```
    Serial.begin(9600);
```

```
    delay(10);
```

```
Serial.print("Connecting to ");
Serial.println(WLAN_SSID);
WiFi.mode(WIFI_STA);
WiFi.begin(WLAN_SSID, WLAN_PASS);
while (WiFi.status() != WL_CONNECTED) {
    delay(500);
    Serial.print(".");
}
Serial.println();
Serial.println("WiFi connected");
Serial.println("IP address: ");
Serial.println(WiFi.localIP());
}
```

```
void loop() {
    int pressed = digitalRead(button);
    Serial.println(pressed);
    if(pressed == 0)
    {
        sendEmail();
        Serial.print("Mail sent to:");
        Serial.println(" The recipient");
        Serial.println("");
    }
}
```

```

    }
}

byte sendEmail()
{
    if (Client.connect(server, 2525) == 1)    // connect to smtp server
with port address 2525
    {
        Serial.println(F("connected to server"));
    }
    else
    {
        Serial.println(F("connection failed"));
        return 0;
    }
    if (!emailResp())    // if connection failed return now
        return 0;
    //
    Serial.println(F("Sending EHLO"));
    Client.println("EHLO www.example.com");    // Send command
EHLO previosly it was HELO*****
    if (!emailResp())
        return 0;

```

```
Serial.println(F("Sending auth login"));
Client.println("AUTH LOGIN");
if (!emailResp())
    return 0;
//
Serial.println(F("Sending User"));
Client.println("c2VuZGVyQHh5ei5jb20="); //base64, ASCII encoded
SMTP Username
if (!emailResp())
    return 0;

Serial.println(F("Sending Password"));
Client.println("cGFzc3dvcmQ="); //base64, ASCII encoded SMTP
Password
if (!emailResp())
    return 0;

Serial.println(F("Sending From"));
Client.println(F("MAIL From: sender@xyz.com"));
if (!emailResp())
    return 0;
// change to recipient address
Serial.println(F("Sending To"));
Client.println(F("RCPT To: receiver@xyz.com"));
```

```
if (!emailResp())
```

```
    return 0;
```

```
Serial.println(F("Sending DATA"));
```

```
Client.println(F("DATA"));
```

```
if (!emailResp())
```

```
    return 0;
```

```
Serial.println(F("Sending email"));
```

```
Client.println(F("To: receiver@xyz.com "));
```

```
Client.println(F("From: sender@xyz.com "));
```

```
Client.println(F("Subject: Panic Button - Alert !!!\r\n"));
```

```
Client.println(F("This is a alert message from your grandfather."));
```

```
Client.println(F("He is not well. Please take him to hospital  
immediately"));
```

```
//Client.println(F("Third line of the test e-mail."));
```

```
//
```

```
Client.println(F("."));
```

```
if (!emailResp())
```

```
    return 0;
```

```
//
```

```
Serial.println(F("Sending QUIT"));
```

```
Client.println(F("QUIT"));
if (!emailResp())
    return 0;
//
Client.stop();
Serial.println(F("disconnected"));
return 1;
}

byte emailResp()
{
    byte responseCode;
    byte readByte;
    int loopCount = 0;

    while (!Client.available())
    {
        delay(1);
        loopCount++;
        // Wait for 20 seconds and if nothing is received, stop.
        if (loopCount > 20000)
        {
            Client.stop();
            Serial.println(F("\r\nTimeout"));
        }
    }
}
```

```
    return 0;
}
}
```

```
responseCode = Client.peek();
while (Client.available())
{
    readByte = Client.read();
    Serial.write(readByte);
}
```

```
if (responseCode >= '4')
{
    // efail();
    return 0;
}
return 1;
}
```