/\* Arduino Code which sends data to google spreadsheet \*/

#include<SPI.h>

#include<MFRC522.h>

#include <Ethernet.h>

#include <LiquidCrystal.h>

#define SS\_PIN 4 //FOR RFID SS PIN BECASUSE WE ARE USING BOTH ETHERNET SHIELD AND RS-522

#define RST\_PIN 9

#define No\_Of\_Card 3

const int rs =19 , en =18 , d4 = 17, d5 = 16, d6 = 15, d7 = 14;

LiquidCrystal lcd(rs, en, d4, d5, d6, d7);

byte mac[] = { 0x00, 0xAA, 0xBB, 0xCC, 0xDE, 0x02 }; //00:AA:BB:CC:DE:02

char server[] = "api.pushingbox.com"; //YOUR SERVER

IPAddress ip(192, 168, 43, 87);

EthernetClient client;

MFRC522 rfid(SS\_PIN,RST\_PIN);

MFRC522::MIFARE\_Key key;

byte id[No\_Of\_Card][4]={

{253,89,83,67}, //RFID NO-1

{114,82,205,46}, //RFID NO-2

{114,180,43,46} //RFID NO-3

};

byte id\_temp[3][3];

byte i;

int j=0;

int buzzer=7;

// the setup function runs once when you press reset or power the board

void setup(){

Serial.begin(9600);

lcd.begin(16, 2);

pinMode(buzzer,OUTPUT);

SPI.begin();

rfid.PCD\_Init();

for(byte i=0;i<6;i++)

{

key.keyByte[i]=0xFF;

}

if (Ethernet.begin(mac) == 0) {

Serial.println("Failed to configure Ethernet using DHCP");

Ethernet.begin(mac, ip);

}

delay(1000);

Serial.println("connecting...");

}

// the loop function runs over and over again forever

void loop(){

digitalWrite(buzzer,HIGH);

lcd.setCursor(0, 0);

int m=0;

if(!rfid.PICC\_IsNewCardPresent())

return;

if(!rfid.PICC\_ReadCardSerial())

return;

for(i=0;i<4;i++)

{

id\_temp[0][i]=rfid.uid.uidByte[i];

delay(50);

}

digitalWrite(buzzer,LOW);

delay(10);

for(i=0;i<No\_Of\_Card;i++)

{

if(id[i][0]==id\_temp[0][0])

{

if(id[i][1]==id\_temp[0][1])

{

if(id[i][2]==id\_temp[0][2])

{

if(id[i][3]==id\_temp[0][3])

{

Serial.print("your card no :");

lcd.write(1);

for(int s=0;s<4;s++)

{

Serial.print(rfid.uid.uidByte[s]);

lcd.print(rfid.uid.uidByte[s]);

Serial.print(" ");

lcd.print(" ");

}

Serial.println("\nValid Person");

lcd.setCursor(0, 1);

lcd.print("\nValid Person");

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j=0;

rfid.PICC\_HaltA(); rfid.PCD\_StopCrypto1(); return;

}

}

}

}

else

{j++;

if(j==No\_Of\_Card)

{

Serial.println("Invalid Person");

lcd.clear();

lcd.print("InValid Person");

Sending\_To\_spreadsheet();

j=0;

}

}

}

// Halt PICC

rfid.PICC\_HaltA();

// Stop encryption on PCD

rfid.PCD\_StopCrypto1();

}

void Sending\_To\_spreadsheet() //CONNECTING WITH MYSQL

{

if (client.connect(server, 80)) {

Serial.println("connected");

// Make a HTTP request:

client.print("GET /pushingbox?devid=v37EE162D7B974EA&allowed\_members="); //YOUR URL

if(j!=No\_Of\_Card)

{

client.print('1');

// Serial.print('1');

}

else

{

client.print('0');

}

client.print("&Member\_ID=");

for(int s=0;s<4;s++)

{

client.print(rfid.uid.uidByte[s]);

}

client.print(" "); //SPACE BEFORE HTTP/1.1

client.print("HTTP/1.1");

client.println();

client.println("Host: api.pushingbox.com");

client.println("Connection: close");

client.println();

} else {

// if you didn't get a connection to the server:

Serial.println("connection failed");

}

}