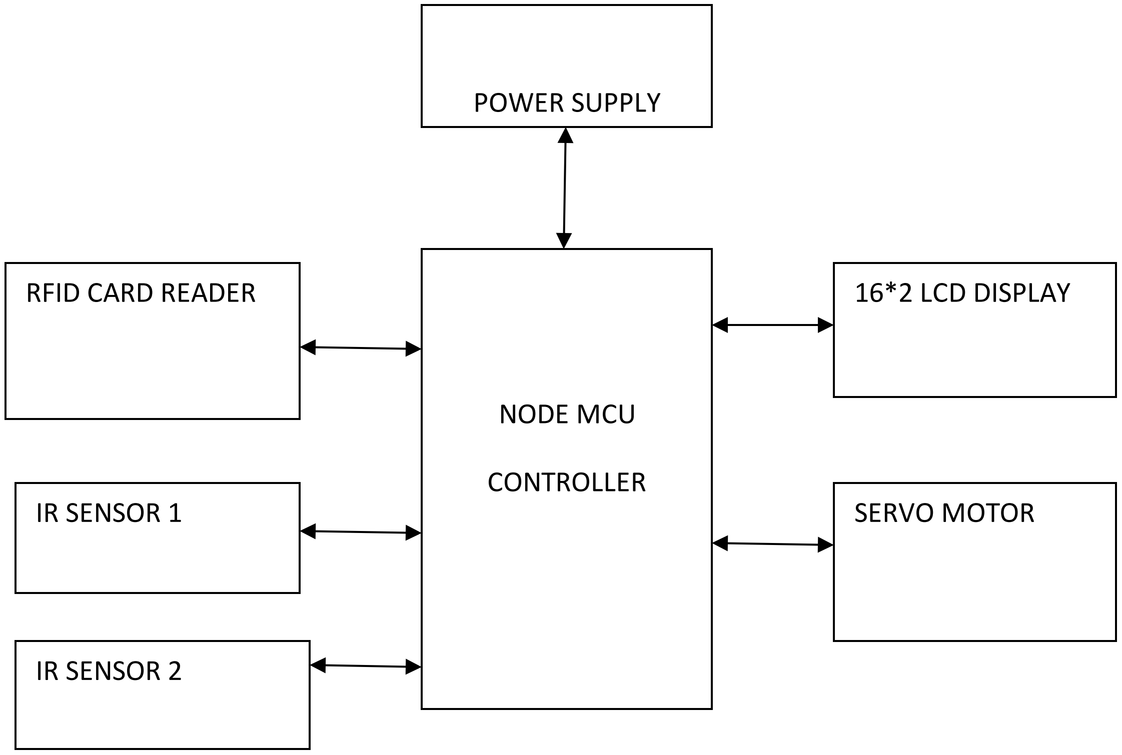

COMPONENTS:-

1. NODE MCU
2. IR SENSORS
3. RFID CARD READER
4. 16*2 LCD DISPLAY
5. SERVO MOTOR

CODE:-

```
#include <ESP8266WiFi.h>

#include <WiFiClientSecure.h>

#define WIFI_SSID "project"           // WIFI SSID here

#define WIFI_PASSWORD "1234567890"       // WIFI password here


const char* host = "script.google.com";

const int httpsPort = 443;

//---------------------------------------


WiFiClientSecure client; //--> Create a WiFiClientSecure object.

String GAS_ID = "AKfycby-dirlJ12SoQtS5MesKEV07L7IWYpi6jbtSilEPIZC2B9PH1d21QSGMs2IMneUuzDC";
//--> spreadsheet script ID




#include <Wire.h>

#include <LiquidCrystal_I2C.h>

LiquidCrystal_I2C lcd(0x27, 16, 2);


#include<Servo.h>

Servo s;


#include <SPI.h>

#include <MFRC522.h>


#define SS_PIN D4
```

```
#define RST_PIN D3
MFRC522 mfrc522(SS_PIN, RST_PIN);

int o = 0;
int o1 = 20;

String content= "";
  byte letter;

  int sen1 = 0;
  int sen2 = 0;
  int psg = 0;

void setup() {
 Serial.begin(9600);   // Initiate a serial communication
  SPI.begin();      // Initiate  SPI bus
  mfrc522.PCD_Init();   // Initiate MFRC522
  Serial.println("Approximate your card to the reader...");
  Serial.println();
  s.attach(D0);
  s.write(90);
  lcd.begin();   // initializing the LCD
  lcd.backlight();
  WiFi.mode(WIFI_STA);
WiFi.begin(WIFI_SSID, WIFI_PASSWORD);                                   //try to connect with wifi
```

```
//Serial.print("Connecting to ");

//Serial.print(WIFI_SSID);

while (WiFi.status() != WL_CONNECTED)

{ //Serial.print(".");

  lcd.clear();

  lcd.print("Connecting ...");

    delay(500); }


    client.setInsecure();


    pinMode(D8,INPUT);

}


void loop() {

sen1 = digitalRead(D8);

sen2 = analogRead(A0);


if(sen1 == HIGH){psg++; delay(500);}

if(sen2 > 500)  {psg--; delay(500);}

if(psg == -1){psg = 0;}

if(psg < 10){


if (o == 0){

  lcd.clear();

  lcd.print("Scan Ur Card");
  lcd.setCursor(0,1);

  lcd.print("PSG CNT: ");

  lcd.print(psg);

  read_card();

  if (content.substring(1) == "B3 11 CE 04" || content.substring(1) == "DC 4C D7 6D" || content.substring(1) == "0A EE 7A 19") //change here the UID of the card/cards that you want to give access

  {

    lcd.clear();

    lcd.print("SEL STATION");

    o = 1;

    content = "";

    delay(1000);

  }

}

  if(o == 1)

  {

    o1--;

     read_card();

    lcd.clear();

    lcd.setCursor(0,0);

    lcd.print("CBS STATION");

     lcd.setCursor(0,1);

    lcd.print("Rem Time:");

    lcd.print(o1);

    delay(300);
    if(o1 == 0)
    {
      o = 2;o1 = 20;
    }
    if (content.substring(1) == "B3 11 CE 04" || content.substring(1) == "DC 4C D7 6D" || content.substring(1) == "0A EE 7A 19") //change here the UID of the card/cards that you want to give access
  {
    lcd.clear();
    lcd.print("CBS Selected.");
    lcd.setCursor(0,1);
    lcd.print("Fair 20 Rs");
    o = 0;
    o1 = 20;
    delay(1000);
    s.write(0);
    delay(3000);
    s.write(90);
    delay(1000);
    String card = content.substring(1);
    content = "";
    card.replace(' ','-');
   sendData(card, "CBS","20RS");
   card="";

  }
```

```
 }

  if(o == 2)

 {

  o1--;

  read_card();

  lcd.clear();

  lcd.setCursor(0,0);

  lcd.print("KRANTI CHOWK");

   lcd.setCursor(0,1);

  lcd.print("Rem Time:");

  lcd.print(o1);

  delay(300);

  if(o1 == 0)

  {

    o = 3;o1 = 20;

  }

  if (content.substring(1) == "B3 11 CE 04" || content.substring(1) == "DC 4C D7 6D" ||
content.substring(1) == "0A EE 7A 19") //change here the UID of the card/cards that you want to give
access

 {

  lcd.clear();

  lcd.print("K.C. Selected.");

  lcd.setCursor(0,1);

  lcd.print("Fair 40 Rs");

  o = 0;

  o1 = 20;
  delay(1000);
  s.write(0);
  delay(1000);
  String card1 = content.substring(1);
  content = "";
  card1.replace(' ','-');
  sendData(card1, "KRANTI_CHOWK","40RS");
  card1="";
}
}
 if(o == 3)
{
  o1--;
  read_card();
  lcd.clear();
  lcd.setCursor(0,0);
  lcd.print("BABA PETROL P.");
   lcd.setCursor(0,1);
  lcd.print("Rem Time:");
  lcd.print(o1);
  delay(300);
  if(o1 == 0)
  {
    o = 0;o1 = 20;
  }
```

```
    if (content.substring(1) == "B3 11 CE 04" || content.substring(1) == "DC 4C D7 6D" || content.substring(1) == "0A EE 7A 19") //change here the UID of the card/cards that you want to give access
  {
    lcd.clear();
    lcd.print("BPP Selected.");
    lcd.setCursor(0,1);
    lcd.print("Fair 60 Rs");
    o = 0;
    o1 = 20;
    delay(1000);
    s.write(0);
    delay(3000);
    s.write(90);
    delay(1000);
    String card2 = content.substring(1);
    content = "";
    card2.replace(' ','-');
    sendData(card2, "BABA_PETROL_PUMP","60RS");
    card2="";
  }
  }
delay(100);
}
else
{
  }

  lcd.clear();
  lcd.print("bus if full");
  delay(200);
 }
 }

 void read_card()
 {
   if ( ! mfrc522.PICC_IsNewCardPresent())
  {
    return;
  }
  // Select one of the cards
  if ( ! mfrc522.PICC_ReadCardSerial())
  {
    return;
  }

  for (byte i = 0; i < mfrc522.uid.size; i++)
  {
     Serial.print(mfrc522.uid.uidByte[i] < 0x10 ? " 0" : " ");
     Serial.print(mfrc522.uid.uidByte[i], HEX);
     content.concat(String(mfrc522.uid.uidByte[i] < 0x10 ? " 0" : " "));
     content.concat(String(mfrc522.uid.uidByte[i], HEX));
  }
  Serial.println();
  Serial.print("Message : ");
  content.toUpperCase();
}

void sendData() {
  Serial.println("==========");
  Serial.print("connecting to ");
  Serial.println(host);

  //------------------------------------------Connect to Google host
  if (!client.connect(host, httpsPort)) {
    return;
  }
  else
  {
    Serial.println("Connected !!!");
  }

  String url = "/macros/s/" + GAS_ID + "/exec?value1=" + card + "&value2=" + station+ "&value3=" + fair;
  Serial.print("requesting URL: ");
  Serial.println(url);

  client.print(String("GET ") + url + " HTTP/1.1\r\n" +
          "Host: " + host + "\r\n" +
          "User-Agent: BuildFailureDetectorESP8266\r\n" +
          "Connection: close\r\n\r\n");

  Serial.println("request sent");
  //----------------------------------------

  //----------------------------------------Checking whether the data was sent successfully or not
  while (client.connected()) {
    String line = client.readStringUntil('\n');
    if (line == "\r") {
      Serial.println("headers received");
      break;
    }
  }
  String line = client.readStringUntil('\n');
  if (line.startsWith("{\"state\":\"success\"")) {
    Serial.println("esp8266/Arduino CI successfull!");
  } else {
    Serial.println("esp8266/Arduino CI has failed");
  }
  Serial.print("reply was : ");
  Serial.println(line);
  Serial.println("closing connection");
  Serial.println("==========");
  Serial.println();
```

```
  //------------------------------------------

}
```