

## Lampiran

Lampiran 1 : program arduino

```
#include <Wire.h>
#include <LiquidCrystal_I2C.h>
#include <SoftwareSerial.h>

#define echo1 13
#define trig1 12
#define echo2 A0
#define trig2 A1
#define motor1 10
#define motor2 6

SoftwareSerial mySerial(3,2);
LiquidCrystal_I2C lcd(0x27, 16, 2);
int prox, pwm=100;
void setup()
{
  mySerial.begin(9600);
  Serial.begin(9600);
  lcd.begin();
  lcd.backlight();
  pinMode(motor1, OUTPUT);
  pinMode(motor2, OUTPUT);
  lcd.clear();
  lcd.setCursor(0,0);
  lcd.print("BCD:");
}

String data_barcode;
```

```

int a=0;
char data[7];

void loop()
{
  if (mySerial.available()) {
    uint16_t inByte = mySerial.read();
    data[a]=char(inByte);
    a++;
    Serial.write(inByte);
  }

  prox = digitalRead(A2);
  int jrk1 = get_ultra(trig1,echo1);
  int jrk2 = get_ultra(trig2,echo2);
  lcd.setCursor(0,0);
  lcd.print("BCD:");
  if (a<5){
    lcd.print(data);
    lcd.print(" ");
  }

  lcd.setCursor(0,1);
  lcd.print(jrk2);
  lcd.print("|");
  lcd.print(prox);
  lcd.print(" M=");
  lcd.print(pwm);
  lcd.print(" ");
  if (a>5){a=0;}
  analogWrite(motor1,pwm);
}

```

```

int get_ultra(int trigPin,int echoPin){
long duration, distance;
pinMode(trigPin, OUTPUT);
pinMode(echoPin, INPUT);
digitalWrite(trigPin, LOW);
delayMicroseconds(2);
digitalWrite(trigPin, HIGH);
delayMicroseconds(10);
digitalWrite(trigPin, LOW);
duration = pulseIn(echoPin, HIGH);
distance = (duration/2) / 29.1;
if (distance>200){distance=200;}
delayMicroseconds(200);
return distance;
}

```

Lampiran 2 : program esp8266

```

#include <ESP8266WiFi.h>

const char* ssid = "BES";
const char* password = "123454321";
const char* host = "192.168.43.150";
const int httpPort = 88;

String wilayah;
uint16_t barcode;
bool flag;
void setup()
{
  Serial.begin(9600);
  Serial.print("Connecting to ");

```

```

Serial.println(ssid);

WiFi.begin(ssid, password);

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()
{
    if (Serial.available()) {
        barcode = Serial.parseInt();
        Serial.println(barcode);
        if (barcode==61111){
            wilayah ="Gresik"; // 61111
            flag= true;
        }
        else if (barcode==61123){
            wilayah ="Kebomas"; //61123
            flag= true;
        }
        else if (barcode==61151){
            wilayah ="Manyar"; //61151
            flag= true;
        }
    }
}

```

```

else if (barcode==61152){
    wilayah ="Bungah"; //61152
    flag= true;
}
else if (barcode==61153){
    wilayah ="Sidayu"; //61153
    flag= true;
}else {
    if (barcode!=0){
        wilayah ="Return"; //0000
        flag= true;
    }
}
}

    if (flag==true){
Serial.print("connecting to ");
Serial.println(host);

WiFiClient client;

if (!client.connect(host, httpPort)) {
    Serial.println("connection failed");
    return;
}

String url =
"/sortir_barcode/connect.php?barcode="+String(barcode)+"&wilayah="+wilayah;

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");

unsigned long timeout = millis();
while (client.available() == 0) {
    if (millis() - timeout > 1000) {
        Serial.println(">>> Client Timeout !");
        client.stop();
        return;
    }
}

Serial.println();
Serial.println("Sukses Update");
flag=false;
barcode=0;
}

}
```

## DAFTAR RIWAYAT HIDUP

### A. Biodata Pribadi

1. Nama lengkap : Muhammad Miftahus Surur
2. Tempat/ tanggal lahir : Gresik, 23-06-1997
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### B. Riwayat Pendidikan

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