LAMPIRAN

Lampiran 1

```
#define BLYNK_PRINT
#define BLYNK_TEMPLATE_ID "TMPLgh9HyVCK5"
#define BLYNK_DEVICE_NAME "Alat Kontrol Pengairan Sawah ABCD"
#define BLYNK_AUTH_TOKEN "nKJyA9mQqjtZjFKNQdtJMZyHaSFd2tiPs"

#include <ESP8266_Lib.h>
#include <BlynkSimpleShieldEsp8266.h>

// You should get Auth Token in the Blynk App.
char auth[] = BLYNK_AUTH_TOKEN;

// Your WiFi credentials.
// Set password
char ssid[] = "Republik Indonesia";
char pass[] = "88888888";

// Hardware Serial on Mega
//#define EspSerial Serial1

// or Software Serial on Uno
#include "SoftwareSerialMod.h"
SoftwareSerial EspSerial(2, 3);

// Your ESP8266 baud rate:
#define ESP8266_BAUD 9600
```

```
ESP8266 wifi(&EspSerial);

#include <Servo.h>

// create servo objects
Servo servo_pintu_A;
Servo servo_pintu_B;
Servo servo_pintu_C;
Servo servo_pintu_D;

#define relay_pompa_A   8
#define relay_pompa_B   7
#define relay_pompa_C   5
#define relay_pompa_D   4

#include "PinChangeInterrupt.h"

// Modify these at your leisure.
#define pin_flow_meter_A   A0
#define pin_flow_meter_B   A1
#define pin_flow_meter_C   A2
#define pin_flow_meter_D   A3

LYNK_WRITE(V0)
{
 int state = param.asInt();

 if (state == 0)
 {
```

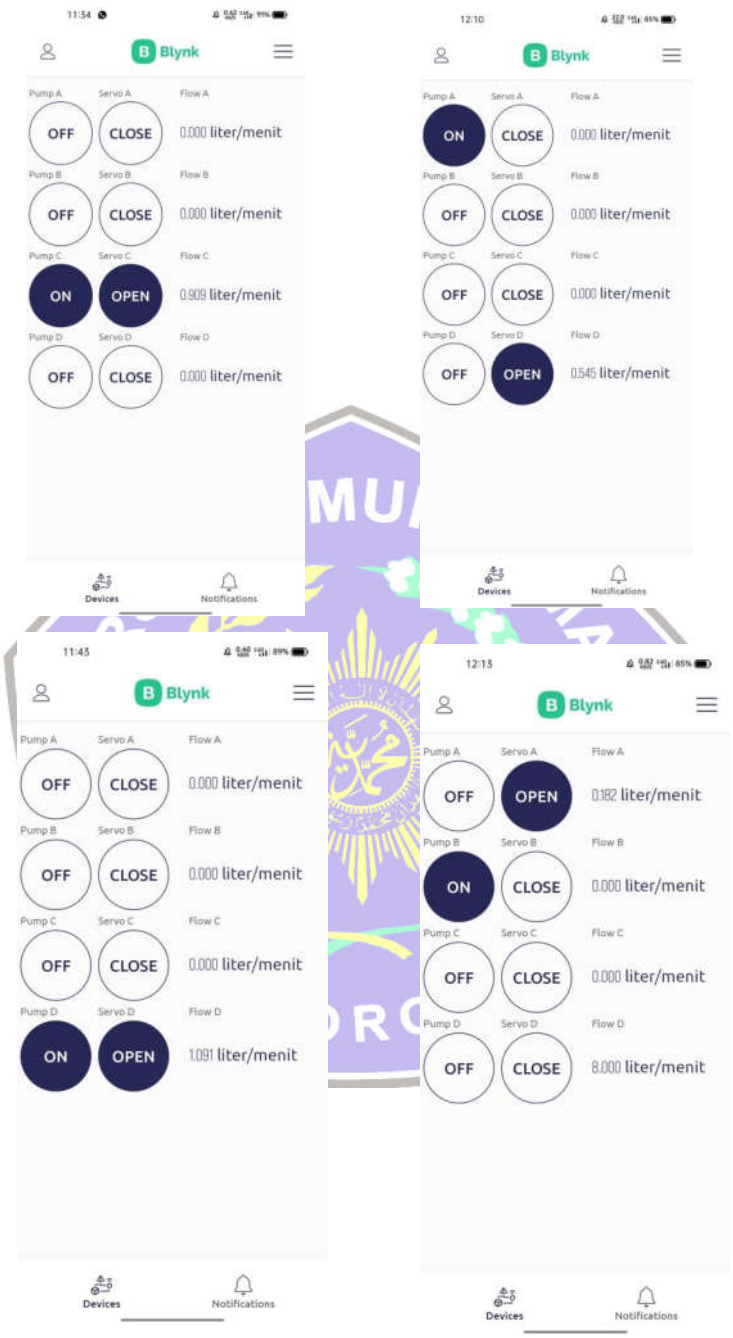
```
   servo_pintu_A.write(74);
   Serial.println("Servo A Tertutup");
  }
  if (state == 1)
  {
   servo_pintu_A.write(135);
   Serial.println("Servo A Terbuka");
  }
}
servo_pintu_A.attach(11);
 servo_pintu_B.attach(10);
 servo_pintu_C.attach(9);
 servo_pintu_D.attach(6);

 servo_pintu_A.write(74);
 servo_pintu_B.write(125);
 servo_pintu_C.write(70);
 servo_pintu_D.write(131);
 delay(2000);
}
}
void setup()
{
 pinMode(relay_pompa_A, OUTPUT);
 pinMode(relay_pompa_B, OUTPUT);
 pinMode(relay_pompa_C, OUTPUT);
 pinMode(relay_pompa_D, OUTPUT);
 digitalWrite(relay_pompa_A, HIGH);
 digitalWrite(relay_pompa_B, HIGH);
```

```
digitalWrite(relay_pompa_C, HIGH);
digitalWrite(relay_pompa_D, HIGH);

// set pins to input
pinMode(pin_flow_meter_A, INPUT_PULLUP);
pinMode(pin_flow_meter_B, INPUT_PULLUP);
pinMode(pin_flow_meter_C, INPUT_PULLUP);
pinMode(pin_flow_meter_D, INPUT_PULLUP);
```

Lampiran 2


11:54
Blynk
Pump A
Servo A
Flow A
OFF
CLOSE
0.000 liter/menit
Pump B
Servo B
Flow B
OFF
CLOSE
0.000 liter/menit
Pump C
Servo C
Flow C
ON
OPEN
0.909 liter/menit
Pump D
Servo D
Flow D
OFF
CLOSE
0.000 liter/menit
Devices
Notifications
12:10
Blynk
Pump A
Servo A
Flow A
ON
CLOSE
0.000 liter/menit
Pump B
Servo B
Flow B
OFF
CLOSE
0.000 liter/menit
Pump C
Servo C
Flow C
OFF
CLOSE
0.000 liter/menit
Pump D
Servo D
Flow D
OFF
OPEN
0.545 liter/menit
Devices
Notifications
11:45
Blynk
Pump A
Servo A
Flow A
OFF
CLOSE
0.000 liter/menit
Pump B
Servo B
Flow B
OFF
CLOSE
0.000 liter/menit
Pump C
Servo C
Flow C
OFF
CLOSE
0.000 liter/menit
Pump D
Servo D
Flow D
ON
OPEN
1.091 liter/menit
Devices
Notifications
12:15
Blynk
Pump A
Servo A
Flow A
OFF
OPEN
0.182 liter/menit
Pump B
Servo B
Flow B
ON
CLOSE
0.000 liter/menit
Pump C
Servo C
Flow C
OFF
CLOSE
0.000 liter/menit
Pump D
Servo D
Flow D
OFF
CLOSE
8.000 liter/menit
Devices
Notifications