

LAMPIRAN 3 TEMPAT STUDI KASUS







LAMPIRAN 4 SOURCE CODE ARDUINO IDE TEMPAT SAMPAH

```
#include <Wire.h>
#include <LiquidCrystal_I2C.h>
LiquidCrystal_I2C lcd(0x27, 20, 4);
#include <WiFi.h>
#include <HTTPClient.h>
const char* ssid = "Ugiii";    // your network SSID (name)
const char* password = "ugi220201";    // your network password
String HOST_NAME = "http://trashmonitoring.my.id"; // change to
your PC's IP address
String PATH_NAME = "/monitoringsampah/";
String queryString;

#include <HardwareSerial.h>
HardwareSerial SerialPort(1); // use UART2
#include <TinyGPS++.h>

TinyGPSPlus    gps;

#include <Ultrasonic.h>

Ultrasonic ultrasonic1(32);
Ultrasonic ultrasonic2(33);
Ultrasonic ultrasonic3(25);

int distance1, distance2, distance3;

#include <Stepper.h>
const int stepsPerRevolution = 512;

const int IN1 = 19;
const int IN2 = 18;
const int IN3 = 4;
const int IN4 = 0;

const int IN11 = 26;
const int IN22 = 27;
const int IN33 = 14;
const int IN44 = 12;
Stepper myStepper(stepsPerRevolution, IN1, IN3, IN2, IN4);
Stepper myStepper2(stepsPerRevolution, IN11, IN33, IN22, IN44);
int baca = 5;

const int I = 36;
const int C = 34;
const int IR1 = 39;
const int IR2 = 35;
const int buzzer = 5;

int s1, s2, s3, ir1, ir2, h1, h2, induktif, kapasitif, k1, k2;
String sts1, sts2, sts3;
String keterangan = "-", notif, stinfo = "-";
float latt, longg;

void setup() {
    Serial.begin(115200);
```

```

Serial2.begin(9600);
SerialPort.begin(115200, SERIAL_8N1, 15, 2);
lcd.begin();
lcd.backlight();
lcd.setCursor(0, 0);
lcd.print("Selamat Datang. ");

lcd.setCursor(6, 1);
lcd.print("Helooo");

while (!Serial);
myStepper.setSpeed(15); // Speed in RPM
myStepper2.setSpeed(15); // Speed in RPM

// setWifi(ssid, pass);
pinMode(I, INPUT);
pinMode(C, INPUT);
pinMode(IR1, INPUT);
pinMode(IR2, INPUT);
pinMode(buzzer, OUTPUT);

Serial.println(ssid);
WiFi.begin(ssid, password);
while (WiFi.status() != WL_CONNECTED) {
    delay(500);
    Serial.print('.');
}

llcd();
}
unsigned long timerDelay = 30000;
unsigned long lastTime = 0;
void loop() {

    if ((millis() - lastTime) > timerDelay) {
        if (WiFi.status() != WL_CONNECTED) {
            Serial.print("Attempting to connect");
            while (WiFi.status() != WL_CONNECTED) {
                WiFi.begin(ssid, password);
                delay(5000);
            }
            Serial.println("\nConnected.");
        }
        lastTime = millis();
    }

    while (Serial2.available() > 0)
        if (gps.encode(Serial2.read()))
            displayInfo();

    if (millis() > 5000 && gps.charsProcessed() < 10)
    {
        Serial.println("No GPS detected: check wiring.");
        while (true);
    }

    if (runEvery(1000)) { // repeat every 5000 millis
        // Pass INC as a parameter to get the distance in inches

```

```

s1 = 19 - ultrasonic1.read();
s2 = 19 - ultrasonic2.read();
s3 = 19 - ultrasonic3.read();

induktif = digitalRead(I);
kapasitif = digitalRead(C);
ir1 = digitalRead(IR1);
ir2 = digitalRead(IR2);

if (s1 <= 0) {
    s1 = 0;
}
if (s2 <= 0) {
    s2 = 0;
}
if (s3 <= 0) {
    s3 = 0;
}

if (ir1 == LOW) {
    h1++;
    if (h1 >= baca) {
        if (induktif == 0) {
            keterangan = "Besi";
            llcd();
            Serial.println("Besi");
            myStepper.step(stepsPerRevolution);
            delay(500);
            myStepper.step(-stepsPerRevolution);
            k1 = 1;
            delay(500);
        }
        else {
            keterangan = "Nonbesi";
            llcd();
            Serial.println("Nonbesi");
            myStepper.step(-stepsPerRevolution);
            delay(500);
            myStepper.step(stepsPerRevolution);
            delay(500);
        }
        h1 = 0;
    }
}
else {
    h1 = 0;
}

if (ir2 == LOW) {
    h2++;
    if (h2 >= baca) {
        if (kapasitif == 1) {
            keterangan = "Organik";
            llcd();
            Serial.println("organik");
            myStepper2.step(-stepsPerRevolution);
            delay(500);
            myStepper2.step(stepsPerRevolution);

```

```

        delay(500);

    }
    else {
        keterangan = "anorganik";
        llcd();
        Serial.println("anorganik");
        myStepper2.step(stepsPerRevolution);
        delay(500);
        myStepper2.step(-stepsPerRevolution);
        delay(500);
    }
    k2 = 1;
    h2 = 0;
}

else {
    h2 = 0;
}

if (s1 >= 15) {
    sts1 = "Besi_Penuh";
    digitalWrite(buzzer, HIGH);
    delay(500);
    digitalWrite(buzzer, LOW);
} else {
    sts1 = "Besi_Aman";
    digitalWrite(buzzer, LOW);
}

if (s2 >= 15) {
    digitalWrite(buzzer, HIGH);
    delay(500);
    digitalWrite(buzzer, LOW);
    sts2 = "Anorganik_Penuh";
} else {
    digitalWrite(buzzer, LOW);
    sts2 = "Anorganik_Aman";
}

if (s3 >= 15) {
    digitalWrite(buzzer, HIGH);
    delay(500);
    digitalWrite(buzzer, LOW);
    sts3 = "Organik_Penuh";
} else {
    digitalWrite(buzzer, LOW);
    sts3 = "Organik_Aman";
}

notif = String(sts1) + "-" + String(sts2) + "-" +
String(sts3);

queryString = "save.php?t1=" + String(s1) + "&t2=" +
String(s2) + "&t3=" + String(s3) + "&kat=" + String(keterangan)
+ "&notif=" + String(notif) + "&latitude=" + String(latt, 6) +
"&longitude=" + String(longg, 6);

```

```

if (k1 == 1 || k2 == 1) {
    Serial.println("kirim data");
    SerialPort.print(1);

    // save.php ? t1 = 30 & t2 = 63 & t3 = 80.01 & kat = box 3
    penuh cuy & notif = 1 & latitude = -6.356438231828608 &
    longitude = 106.8261227172679 & ket = ok

    Serial.println(queryString);
    HTTPClient http;

    String serverPath = HOST_NAME + PATH_NAME + queryString;
    Serial.println(serverPath);
    http.begin(serverPath.c_str());
    int httpResponseCode = http.GET();

    if (httpResponseCode > 0) {
        Serial.print("HTTP Response code: ");
        Serial.println(httpResponseCode);
        String payload = http.getString();
        Serial.println(payload);
    }
    else {
        Serial.print("Error code: ");
        Serial.println(httpResponseCode);
    }
    // Free resources
    http.end();
    k1 = 0;
    k2 = 0;
}
lcd.setCursor(0, 0);
lcd.print("Ketinggian Sampah");
lcd.setCursor(0, 1);
lcd.print("Anorganik=");
lcd.print(s2);
lcd.print("cm ");
lcd.setCursor(0, 2);
lcd.print("Organik=");
lcd.print(s3);
lcd.print("cm ");
lcd.setCursor(0, 3);
lcd.print("Besi=");
lcd.print(s1);
lcd.print("cm ");

Serial.println("distance1 = " + String (distance1));
Serial.println("distance2 = " + String (distance2));
Serial.println("distance3 = " + String (distance3));
Serial.println("s1 = " + String (s1));
Serial.println("s2 = " + String (s2));
Serial.println("s3 = " + String (s3));
Serial.println("ir1 = " + String (ir1));
Serial.println("ir2 = " + String (ir2));
Serial.println("h1 = " + String (h1));
Serial.println("h2 = " + String (h2));

```

```

        Serial.println("sts1 = " + String (sts1));
        Serial.println("sts2 = " + String (sts2));
        Serial.println("sts3 = " + String (sts3));
        Serial.println("induktif = " + String (induktif));
        Serial.println("kapasitif = " + String (kapasitif));
        Serial.println("notif = " + String (notif));
        Serial.println("queryString = " + String (queryString));

    }

}

void llcd() {
    lcd.setCursor(0, 0);
    lcd.print(keterangan);
    lcd.print("                ");
}

void displayInfo()
{
    Serial.print("Lokasi: ");
    if (gps.location.isValid())
    {
        Serial.print(gps.location.lat(), 6);
        Serial.print(",");
        Serial.print(gps.location.lng(), 6);
        latt = gps.location.lat(), 6;
        longg = gps.location.lng(), 6;
    }
    else
    {
        Serial.print("Masi Mencari Lokasi");
        latt = 0;
        longg = 0;
    }
    Serial.println();
}

boolean runEvery(unsigned long interval)
{
    static unsigned long previousMillis = 0;
    unsigned long currentMillis = millis();
    if (currentMillis - previousMillis >= interval)
    {
        previousMillis = currentMillis;
        return true;
    }
    return false;
}

```

LAMPIRAN 5 SOURCE CODE ARDUINE IDE ESP32 CAM

```
#include <Arduino.h>
#include <WiFi.h>
#include "soc/soc.h"
#include "soc/rtc_cntl_reg.h"
#include "esp_camera.h"

const char* ssid = "Ugiii";
const char* password = "ugi220201";

String serverName = "trashmonitoring.my.id";    // REPLACE WITH
YOUR IP ADDRESS
//String serverName = "example.com";    // OR REPLACE WITH YOUR
DOMAIN NAME

String serverPath = "/monitoringsampah/gambar.php";    // The
default serverPath should be upload.php

const int serverPort = 80;

WiFiClient client;

#include <HardwareSerial.h>

HardwareSerial SerialPort(1); // use UART2

// CAMERA_MODEL_AI_THINKER
#define PWDN_GPIO_NUM    32
#define RESET_GPIO_NUM   -1
#define XCLK_GPIO_NUM     0
#define SIOD_GPIO_NUM    26
#define SIOC_GPIO_NUM    27

#define Y9_GPIO_NUM       35
#define Y8_GPIO_NUM       34
#define Y7_GPIO_NUM       39
#define Y6_GPIO_NUM       36
#define Y5_GPIO_NUM       21
#define Y4_GPIO_NUM       19
#define Y3_GPIO_NUM       18
#define Y2_GPIO_NUM        5
#define VSYNC_GPIO_NUM    25
#define HREF_GPIO_NUM     23
#define PCLK_GPIO_NUM     22

const int timerInterval = 10000;    // time between each HTTP
POST image
unsigned long previousMillis = 0;    // last time image was sent
const int LED_FLASHLIGHT = 4;

void setup() {
  WRITE_PERI_REG(RTC_CNTL_BROWN_OUT_REG, 0);
  Serial.begin(115200);
  SerialPort.begin(115200, SERIAL_8N1, 14, 15);
  WiFi.mode(WIFI_STA);
  Serial.println();
  Serial.print("Connecting to ");
```

```

Serial.println(ssid);
WiFi.begin(ssid, password);
while (WiFi.status() != WL_CONNECTED) {
    Serial.print(".");
    delay(500);
}
Serial.println();
Serial.print("ESP32-CAM IP Address: ");
Serial.println(WiFi.localIP());

camera_config_t config;
config.grab_mode = CAMERA_GRAB_LATEST;
config.ledc_channel = LEDC_CHANNEL_0;
config.ledc_timer = LEDC_TIMER_0;
config.pin_d0 = Y2_GPIO_NUM;
config.pin_d1 = Y3_GPIO_NUM;
config.pin_d2 = Y4_GPIO_NUM;
config.pin_d3 = Y5_GPIO_NUM;
config.pin_d4 = Y6_GPIO_NUM;
config.pin_d5 = Y7_GPIO_NUM;
config.pin_d6 = Y8_GPIO_NUM;
config.pin_d7 = Y9_GPIO_NUM;
config.pin_xclk = XCLK_GPIO_NUM;
config.pin_pclk = PCLK_GPIO_NUM;
config.pin_vsync = VSYNC_GPIO_NUM;
config.pin_href = HREF_GPIO_NUM;
config.pin_sscb_sda = SIOD_GPIO_NUM;
config.pin_sscb_scl = SIOC_GPIO_NUM;
config.pin_pwdn = PWDN_GPIO_NUM;
config.pin_reset = RESET_GPIO_NUM;
config.xclk_freq_hz = 20000000;
config.pixel_format = PIXFORMAT_JPEG;

// init with high specs to pre-allocate larger buffers
if (psramFound()) {
    config.frame_size = FRAMESIZE_SVGA;
    config.jpeg_quality = 10; //0-63 lower number means higher
quality
    config.fb_count = 2;
} else {
    config.frame_size = FRAMESIZE_CIF;
    config.jpeg_quality = 12; //0-63 lower number means higher
quality
    config.fb_count = 1;
}

// camera init
esp_err_t err = esp_camera_init(&config);
if (err != ESP_OK) {
    Serial.printf("Camera init failed with error 0x%x", err);
    delay(1000);
    ESP.restart();
}

}

void loop() {
    if (SerialPort.available())
    {

```

```

        char number = SerialPort.read();
        Serial.println("kirim foto");
        if (number == '1') {
            digitalWrite(LED_FLASHLIGHT, HIGH);
            sendPhoto();
            digitalWrite(LED_FLASHLIGHT, LOW);
        }
        Serial.println(number);
        number = ' ';
    }
}

String sendPhoto() {
    String getAll;
    String getBody;
    camera_fb_t * fb = NULL;
    fb = esp_camera_fb_get();
    if (!fb) {
        Serial.println("Camera capture failed");
        delay(1000);
        ESP.restart();
    }

    Serial.println("Connecting to server: " + serverName);

    if (client.connect(serverName.c_str(), serverPort)) {
        Serial.println("Connection successful!");
        String head = "--RandomNerdTutorials\r\nContent-Disposition:
form-data; name=\"imageFile\"; filename=\"esp32-
cam.jpg\" \r\nContent-Type: image/jpeg\r\n\r\n";
        String tail = "\r\n--RandomNerdTutorials--\r\n";

        uint32_t imageLen = fb->len;
        uint32_t extraLen = head.length() + tail.length();
        uint32_t totalLen = imageLen + extraLen;

        client.println("POST " + serverPath + " HTTP/1.1");
        client.println("Host: " + serverName);
        client.println("Content-Length: " + String(totalLen));
        client.println("Content-Type: multipart/form-data;
boundary=RandomNerdTutorials");
        client.println();
        client.print(head);

        uint8_t *fbBuf = fb->buf;
        size_t fbLen = fb->len;
        for (size_t n = 0; n < fbLen; n = n + 1024) {
            if (n + 1024 < fbLen) {
                client.write(fbBuf, 1024);
                fbBuf += 1024;
            }
            else if (fbLen % 1024 > 0) {
                size_t remainder = fbLen % 1024;
                client.write(fbBuf, remainder);
            }
        }
        client.print(tail);
    }
}

```

```

esp_camera_fb_return(fb);

int timeoutTimer = 10000;
long startTimer = millis();
boolean state = false;

while ((startTimer + timeoutTimer) > millis()) {
    Serial.print(".");
    delay(100);
    while (client.available()) {
        char c = client.read();
        if (c == '\n') {
            if (getAll.length() == 0) {
                state = true;
            }
            getAll = "";
        }
        else if (c != '\r') {
            getAll += String(c);
        }
        if (state == true) {
            getBody += String(c);
        }
        startTimer = millis();
    }
    if (getBody.length() > 0) {
        break;
    }
}
Serial.println();
client.stop();
Serial.println(getBody);
}
else {
    getBody = "Connection to " + serverName + " failed.";
    Serial.println(getBody);
}
return getBody;
}

```

LAMPIRAN 6 SOURCE CODE SAVE PADA WEB

```

<?php
//INI YG DIKIRIM OLEH IOT=
//save.php?t1=30&k1=1&t2=63&k2=2&t3=29.01&k3=3&kat=1&notif=1&lat
itude=-6.356438231828608&longitude=106.8261227172679&ket=ok
//save.php?t1=30&t2=63&t3=29.01&t3=50&kat=Besi&notif=1&latitude=
-6.356438231828608&longitude=106.8261227172679&ket=ok
if(isset($_GET["t1"])){
require_once "konmysqli.php";
$tanggal = date("Y-m-d");
$jam = date("H:i:s");
$BATAS=15;
$sada=0;
    $t1= $_GET["t1"];
    $t2= $_GET["t2"];

```

```

$t3= $_GET["t3"];
$kat= $_GET["kat"];
$notif= $_GET["notif"];

$longitude= $_GET["longitude"];
$latitude= $_GET["latitude"];

$k1="Tersedia";
$k2="Tersedia";
$k3="Tersedia";

$status= "Status ";
$ST1="";$ST2="";$ST3="";
if($t1>=$BATAS){$status.= "Box1
Full,";$k1="Penuh";$ST1="Status1";$ada++;}
if($t2>=$BATAS){$status.= "Box2
Full,";$k2="Penuh";$ST2="Status2";$ada++;}
if($t3>=$BATAS){$status.= "Box3
Full,";$k3="Penuh";$ST3="Status3";$ada++;}
$status.= " $ada info";
$keterangan = "$notif / $status";
$gambar="avatar.jpg";

$sql = "INSERT INTO `tb_monitoring` (`idm`,
`kategori`, `tanggal`, `jam`, `ketinggian1`, `ketinggian2`,
`ketinggian3`, `latitude`, `longitude`, `gambar`,
`status1`, `status2`, `status3`, `status`, `keterangan`)
VALUES ('', '$kat', '$tanggal', '$jam', '$t1', '$t2', '$t3',
'$latitude', '$longitude', '$gambar', '$k1', '$k2',
'$k3', '$ada', '$keterangan')";
$simpan = process($conn, $sql);
if($simpan){echo"1";}
else{echo"0";}

$sql = "SELECT * FROM `tb_wa` where tanggal='$tanggal' and
status='$ST1'";
$jum = getJum($conn, $sql);
if($jum<1){
$sql2 = "SELECT nama_admin,id_admin,telepon FROM `tbadmin`
where status='Aktif'";
$arr = getData($conn, $sql2);
foreach ($arr as $d) {
$id_admin = $d["id_admin"];
$nama_admin = ucwords($d["nama_admin"]);
$telepon = $d["telepon"];

$pesan="Yth $nama_admin, Kotak Sampah Nomor
1(Besi) Sudah Penuh,
https://maps.google.com/q=$latitude,$longitude";
    kirimWA($telepon,$pesan);
    $sq="INSERT INTO `tb_wa` (`idw`, `tanggal`, `jam`,
`pesan`, `status`, `id_admin`, `telepon`) VALUES
('', '$tanggal', '$jam', '$pesan', 'Status1',
'$id_admin', '$telepon')";
    process($conn, $sq);

} //for admin
} //jum

```

```

//=====

$sql = "SELECT * FROM `tb_wa` where tanggal='$tanggal' and
status='$ST2'";
$jum = getJum($conn, $sql);
if($jum<1){
$sql2 = "SELECT nama_admin,id_admin,telepon FROM `tbadmin`
where status='Aktif'";
$arr = getData($conn, $sql2);
foreach ($arr as $d) {
$id_admin = $d["id_admin"];
$nama_admin = ucwords($d["nama_admin"]);
$telepon = $d["telepon"];
$pesan="Yth $nama_admin, Kotak Sampah Nomor
2(AnOrganik) Sudah Penuh,
https://maps.google.com/q=$latitude,$longitude";
    kirimWA($telepon,$pesan);
    $sq="INSERT INTO `tb_wa` (`idw`,`tanggal`,`jam`,`
pesan`,`status`,`id_admin`,`telepon`) VALUES
('','$tanggal','$jam','$pesan','Status2',
'$id_admin','$telepon')";
    process($conn, $sq);

} //for admin
} //jum
//==
//=====

$sql = "SELECT * FROM `tb_wa` where tanggal='$tanggal' and
status='$ST3'";
$jum = getJum($conn, $sql);
if($jum<1){
$sql2 = "SELECT nama_admin,id_admin,telepon FROM `tbadmin`
where status='Aktif'";
$arr = getData($conn, $sql2);
foreach ($arr as $d) {
$id_admin = $d["id_admin"];
$nama_admin = ucwords($d["nama_admin"]);
$telepon = $d["telepon"];
$pesan="Yth $nama_admin, Kotak Sampah Nomor
3(Organik) Sudah Penuh,
https://maps.google.com/q=$latitude,$longitude";
    kirimWA($telepon,$pesan);
    $sq="INSERT INTO `tb_wa` (`idw`,`tanggal`,`jam`,`
pesan`,`status`,`id_admin`,`telepon`) VALUES
('','$tanggal','$jam','$pesan','Status3',
'$id_admin','$telepon')";
    process($conn, $sq);

} //for admin
} //jum

} //GET isset
?>

```

LAMPIRAN 7 SOURCE CODE MONITORING PADA WEB

```

<link type="text/css" href="<?php echo "$PATH/base/";
?>ui.all.css" rel="stylesheet" />
<script type="text/javascript" src="<?php echo "$PATH/";
?>jquery-1.3.2.js"></script>
<script type="text/javascript" src="<?php echo "$PATH/";
?>ui/ui.core.js"></script>
<script type="text/javascript" src="<?php echo "$PATH/";
?>ui/ui.datepicker.js"></script>
<script type="text/javascript" src="<?php echo "$PATH/";
?>ui/il8n/ui.datepicker-id.js"></script>

<script type="text/javascript">
    function PRINT(pk) {
        win = window.open('monitoring/monitoring_print.php?pk='
+ pk, 'win', 'width=1000, height=400, menubar=0, scrollbars=1,
resizable=0, location=0, toolbar=0, status=0');
    }
</script>

<link rel="stylesheet" href="assets/jsacordeon/jquery-ui.css">
<link rel="stylesheet" href="resources/demos/style.css">
<script src="assets/jsacordeon/jquery-1.12.4.js"></script>
<script src="assets/jsacordeon/jquery-ui.js"></script>
<script>
    $(function() {
        $("#accordion").accordion({
            collapsible: true
        });
    });
</script>

<div id="accordion">
<?php

$sql = "Update `$tbmonitoring` set tag='1' where `tag`='0'";
process($conn, $sql);

$no=0;
$sqlc = "select distinct(`tanggal`) from `$tbmonitoring`
order by `tanggal` desc";
$jumc = getJum($conn, $sqlc);
if ($jumc < 1) {
    echo "<h1>Maaf data Monitoring belum tersedia</h1>";
}
$arrc = getData($conn, $sqlc);
foreach ($arrc as $dc) {
    $tanggal = $dc["tanggal"];

    $sql = "select * from `$tbmonitoring`
where `tanggal`='$tanggal' order by `jam` desc";
    $jum = getJum($conn, $sql);
    ?>
    <h3>Data Monitoring <?php echo WKT($tanggal). " ($jum
Data)" ?>:</h3>
</div>

```

```

Cetak | <img src='ypathicon/print.png' title='PRINT'
OnClick="PRINT('<?php echo $tanggal; ?>')"> |
    <div style="overflow-x:auto;">
        <table class="table table-bordered">
<tr bgcolor="#cccccc">
<th width="3%"><small>No</small></th>
<th width="5%"><small>Gambar</small></th>
<th width="5%"><small>Jam</small></th>
<th width="5%"><small><label title='Trash
Box1'>Besi</label></small></th>
<th width="5%"><small><label title='Trash
Box2'>Anorganik</label></small></th>
<th width="5%"><small><label title='Trash
Box3'>Organik</label></small></th>
<th width="15%"><small><label
title='Catatan'>Koordinat</label></th>

<th width="5%"><small><label
title='Status'>Status</label></th>

<th width="35%"><small><label
title='Catatan'>Catatan</label></th>
        <th width="5%"><small><label title='Hapus
Data'>Aksi</label></th>
    </tr>
    <?php
    if ($jum > 0) {
        //-----
        $batas = 10;
        $page = 1;
        if (isset($_GET['page'])) {
            $page = $_GET['page'];
        }
        if (empty($page)) {
            $posawal = 0;
            $page = 1;
        } else {
            $posawal = ($page - 1) * $batas;
        }

        $sql2 = $sql . " LIMIT $posawal,$batas";
        $no = $posawal + 1;
        //-----

        -

        $arr = getData($conn, $sql2);
        foreach ($arr as $d) {

            $idm = $d["idm"];
            $jam = $d["jam"];
            $ketinggian1 = $d["ketinggian1"];
            $status1 = $d["status1"];
            $ketinggian2 = $d["ketinggian2"];
            $status2 = $d["status2"];
            $ketinggian3 = $d["ketinggian3"];
            $status3 = $d["status3"];
            $status = $d["status"];

```

```

$gambar = $d["gambar"];
$keterangan= $d["keterangan"];
$latitude= $d["latitude"];
$longitude= $d["longitude"];
    $keterangan=str_replace("/", "<br>", $keterangan
an);

$info="$tanggal Jam $jam Wib";
    $clr="green";
    if($status==3){$clr="red";}
    else if($status==2){$clr="yellow";}
    $color = "#fff";

    if ($no % 2 == 0) {
        $color = "#eeeeee";
    }

echo "<tr bgcolor='$color'>
<td><small>$no</small>
<td align='center'><small><a href='ypathfile/$gambar'
target='_blank'>
<img src='ypathfile/$gambar' width='30' height='30'></a></td>
<td><small>$jam</small>
<td><small><label title='$status1'>$ketinggian1</label></td>
<td><small><label title='$status2'>$ketinggian2</label></td>
<td><small><label title='$status3'>$ketinggian3</label></td>
<td><small><label title='Lokasi Map Trash Box'>
    <a
href='https://maps.google.com?q=$latitude,$longitude'
target='_blank'>
        $latitude,$longitude</a>
    </label></td>
<td align='center'><font
color='$clr'><b><big># $status</big></b></font></td>
<td><small><small><i><font
color='#00ff00'>$keterangan</font></td>
    <td><div align='center'>
<a href='?mnu=monitoring&pro=hapus&kode=$idm&info=$info'><img
src='ypathicon/ha.png' title='Hapus data $info'
onClick='return confirm(\"Apakah Anda benar-benar akan menghapus
$info pada data Monitoring ?..\")'></a></div></td>
    </tr>";
        $no++;
    } //for dalam
} //if
else {
    echo "<tr><td colspan='6'><blink>Maaf, Data
Monitoring belum tersedia...</blink></td></tr>";
}
?>
</table>
</div>

<?php
$jmldata = $jum;
if ($jmldata > 0) {
    if ($batas < 1) {
        $batas = 1;
    }
    $jmlhal = ceil($jmldata / $batas);

```

```

        echo "<div class=paging>";
        if ($page > 1) {
            $prev = $page - 1;
            echo "<span class=prevnext><a
href='$_SERVER[PHP_SELF]?page=$prev&mnu=monitoring'>«
Prev</a></span> ";
        } else {
            echo "<span class=disabled>« Prev</span> ";
        }

        for ($i = 1; $i <= $jmlhal; $i++)
            if ($i != $page) {
                echo "<a
href='$_SERVER[PHP_SELF]?page=$i&mnu=monitoring'>$i</a> ";
            } else {
                echo " <span class=current>$i</span> ";
            }

            if ($page < $jmlhal) {
                $next = $page + 1;
                echo "<span class=prevnext><a
href='$_SERVER[PHP_SELF]?page=$next&mnu=monitoring'>Next
>></a></span>";
            } else {
                echo "<span class=disabled>Next >></span>";
            }
            echo "</div>";
        } //if jmldata

        $jmldata = $jum;
        echo "<p align=center>Total data <b>$jmldata</b>
item</p>";

        echo "</div>";
    } //for atas
?>
</div>

<?php
    if (isset($_GET["pro"]) && $_GET["pro"] == "hapus") {
        $idm = $_GET["kode"];
        $info = $_GET["info"];
        $sql = "delete from `stbmonitoring` where
`idm`='$idm'";
        $hapus = process($conn, $sql);
        if ($hapus) {
            echo "<script>alert('Data $info berhasil dihapus
!');document.location.href='?mnu=monitoring';</script>";
        } else {
            echo "<script>alert('Data $info gagal
dihapus...');document.location.href='?mnu=monitoring';</script>"
;
        }
    }
}

```

LAMPIRAN 8 SOURCE CODE MONITORING APLIKASI MOBILE

```
package com.skripsi.trashboxmonitoring;

import android.app.AlertDialog;
import android.app.ListActivity;
import android.app.ProgressDialog;
import android.content.DialogInterface;
import android.content.Intent;
import android.os.AsyncTask;
import android.os.Bundle;
import android.util.Log;
import android.view.KeyEvent;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.Button;
import android.widget.ImageView;
import android.widget.ListAdapter;
import android.widget.ListView;
import android.widget.SimpleAdapter;
import android.widget.TextView;
import android.widget.Toast;

import androidx.cardview.widget.CardView;

import com.google.firebase.crashlytics.buildtools.reloc.org.apache.http
.NameValuePair;
import com.google.firebase.crashlytics.buildtools.reloc.org.apache.http
.message.BasicNameValuePair;

import org.json.JSONArray;
import org.json.JSONException;
import org.json.JSONObject;

import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;

public class ListMonitoring extends ListActivity {
    String ip="";

    private ProgressDialog pDialog;
    JSONParser jParser = new JSONParser();
    JSONParser jsonParser = new JSONParser();
    JSONArray myJSON = null;
    Button btnTake;
    ArrayList<HashMap<String, String>> arrayList;
    private static final String TAG_SUKSES = "sukses";
    private static final String TAG_record = "record";

    private static final String TAG_idm = "idm";
    private static final String TAG_atas = "atas";
```

```

private static final String TAG_bawah = "bawah";

@Override
public void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.view_list);
    arrayList = new ArrayList<HashMap<String, String>>();
    ip=jParser.getIP();

    btnTake =(Button)findViewById(R.id.btnTake);
    btnTake.setOnClickListener(new View.OnClickListener() {
        public void onClick(View arg0) {
            ambilyN();
        }
    });
    new load().execute();

    ListView lv = getListView();
    lv.setOnItemClickListener(new OnItemClickListener() {
        @Override
        public void onItemClick(AdapterView<?> parent, View
view,int position, long id) {
            String pk = ((TextView)
view.findViewById(R.id.kode_k)).getText().toString();
            Intent i = new Intent(getApplicationContext(),
DetailMonitoring.class);
            i.putExtra("pk", pk);
            startActivityForResult(i, 100);
        }
    });

    @Override
    protected void onActivityResult(int requestCode, int
resultCode, Intent data) {
        super.onActivityResult(requestCode, resultCode, data);
        if (resultCode == 100) { // jika result code 100
            Intent intent = getIntent();
            finish();
            startActivity(intent);
        }
    }

    int sukses=0;
    class setTake extends AsyncTask<String, String, String> {
        @Override
        protected void onPreExecute() {
            super.onPreExecute();
            pDialog = new ProgressDialog(ListMonitoring.this);
        }

        protected String doInBackground(String... params) {
            try {
                List<NameValuePair> params1 = new
ArrayList<NameValuePair>();
                String url=ip+"monitoring/monitoring_set.php";
                Log.v("detail",url);
                JSONObject json = jsonParser.makeHttpRequest(url,
"GET", params1);
                sukses = json.getInt(TAG_SUKSES);
            } catch (JSONException e) {

```

```

        e.printStackTrace();
    }
    return null;
}
protected void onPostExecute(String file_url)
{pDialog.dismiss();
    if (sukses == 1) {
        Trimks();
    }
}
}
public void Trimks() {
    new AlertDialog.Builder(this)
        .setTitle("Terimakasih Om")
        .setMessage("Makasih Anda Telah Menjaga kebersihan
Lingkungan")
        .setNeutralButton("Tutup", new
DialogInterface.OnClickListener() {
            public void onClick(DialogInterface dlg, int
sumthin) {
                finish();
            }
        })
        .show();
}

public void ambilyN() {
    AlertDialog.Builder ad=new
AlertDialog.Builder(ListMonitoring.this);
    ad.setTitle("Konfirmasi");
    ad.setMessage("Apakah benar ingin Membersihkan Tong
Sampah?");

    ad.setPositiveButton("OK", new
DialogInterface.OnClickListener() {
        @Override
        public void onClick(DialogInterface dialog, int which)
        {
            new setTake().execute();
        }
    });

    ad.setNegativeButton("No", new
DialogInterface.OnClickListener() {
        public void onClick(DialogInterface arg0, int arg1) {
            Toast.makeText(getApplicationContext(), "Jangan
Males bro...", Toast.LENGTH_SHORT).show();

        }
    });
    ad.show();
}
class load extends AsyncTask<String, String, String> {
    @Override
    protected void onPreExecute() {
        super.onPreExecute();
        pDialog = new ProgressDialog(ListMonitoring.this);
    }
    protected String doInBackground(String... args) {
        List<NameValuePair> params = new
ArrayList<NameValuePair>();
        JSONObject json =

```

```

jParser.makeHttpRequest(ip+"monitoring/monitoring_show.php",
"GET", params);
    Log.d("show: ", json.toString());
    try {
        int sukses = json.getInt(TAG_SUKSES);
        if (sukses == 1) {
            myJSON = json.getJSONArray(TAG_record);
            for (int i = 0; i < myJSON.length(); i++) {
                JSONObject c = myJSON.getJSONObject(i);
                String idm= c.getString(TAG_idm);
                String atas = c.getString(TAG_atas);
                String bawah = c.getString(TAG_bawah);

                HashMap<String, String> map = new
HashMap<String, String>();
                map.put(TAG_idm, idm);
                map.put(TAG_atas, atas);
                map.put(TAG_bawah, bawah);

                arrayList.add(map);
            }
        }
        catch (JSONException e) {e.printStackTrace();}
        return null;
    }

    protected void onPostExecute(String file_url) {
        pDialog.dismiss();
        runOnUiThread(new Runnable() {
            public void run() {
                ListAdapter adapter = new
SimpleAdapter(ListMonitoring.this,
arrayList,R.layout.desain_listmonitoring, new String[] {
TAG_idm,TAG_atas, TAG_bawah},new int[] { R.id.kode_k,
R.id.txtNamalkp ,R.id.txtDeskripsilkp});
                setListAdapter(adapter);
            }
        });
    }

    public boolean onKeyDown(int keyCode, KeyEvent event) {
        if (keyCode == KeyEvent.KEYCODE_BACK) {
            finish();
            return true;
        }
        return super.onKeyDown(keyCode, event);
    }
}

```