

DAFTAR PUSTAKA

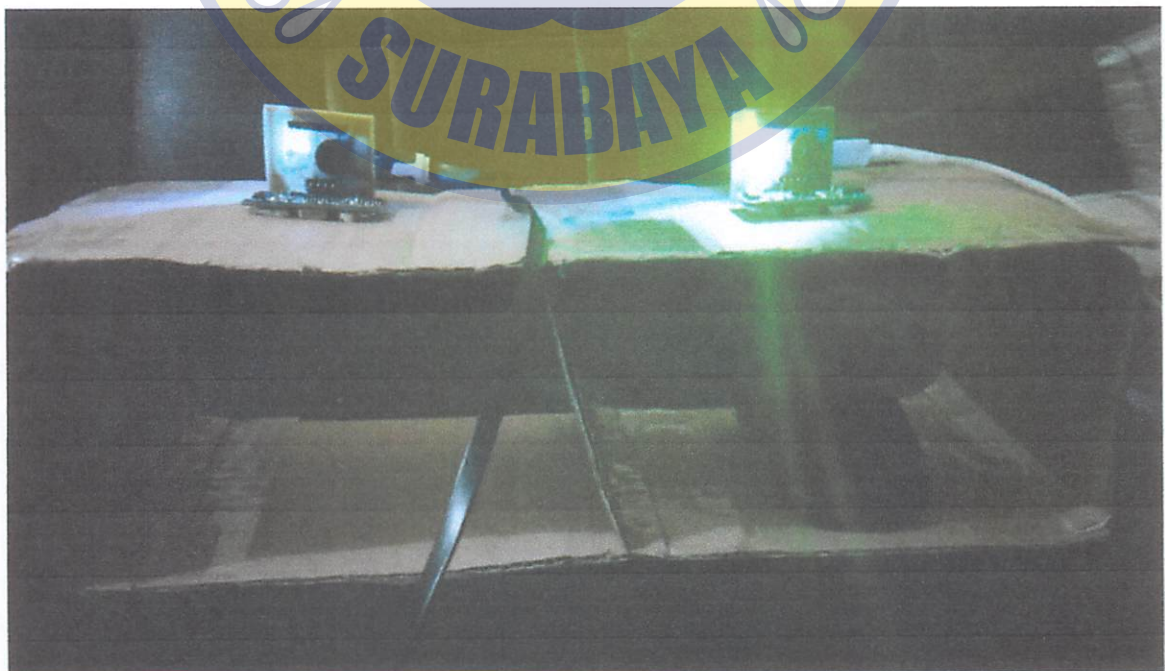
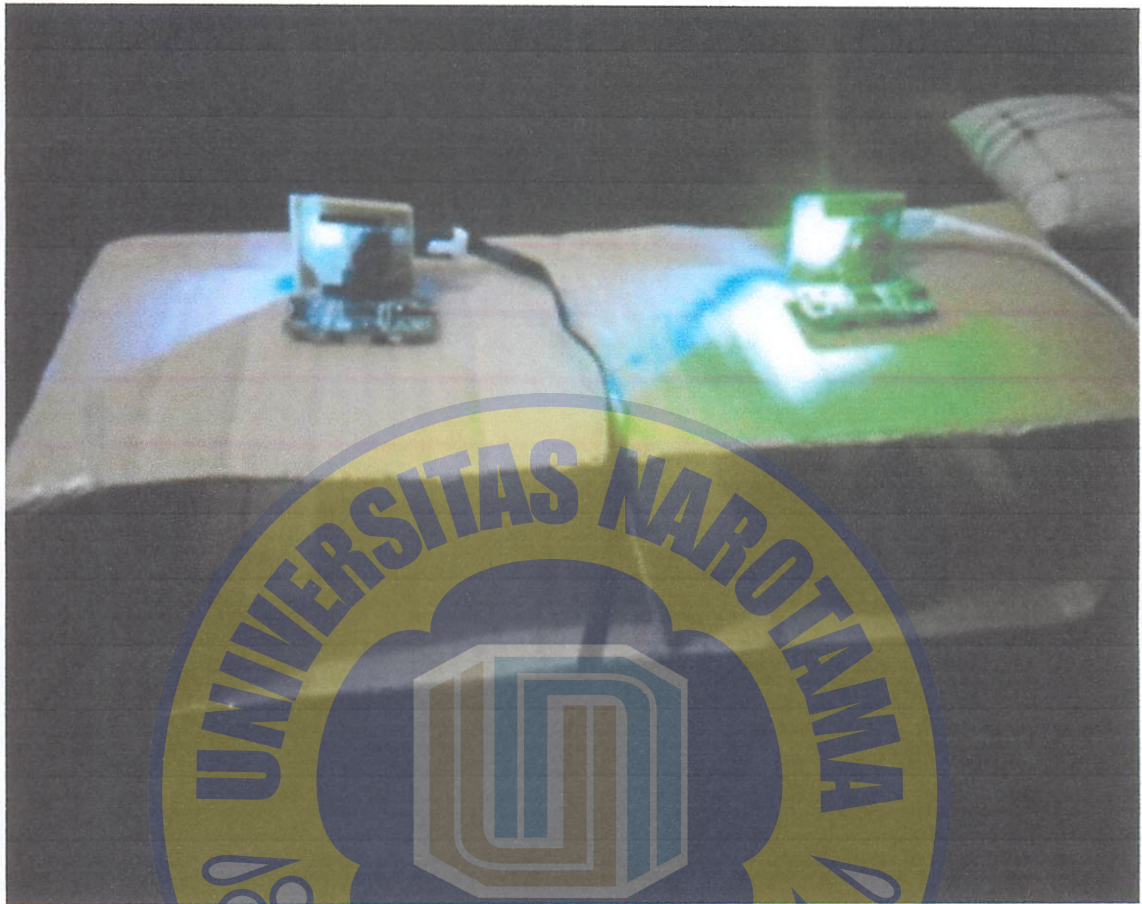
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Direktur Jendral Perhubungan Darat Nomor : 272/HK.105/DRJD/96 tentang
Pedoman Teknis Penyelenggaraan Parkir,” *Pedoman Park.*, pp. 0–3, 1996.



LAMPIRAN 1



LAMPIRAN 2

- Source form menu

```
?xml version="1.0" encoding="utf-8"?>
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:orientation="vertical"

tools:context="parkir.pesan.program.programparkir.MainActivity">

    <TextView
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:textAlignment="center"
        android:textStyle="bold"
        android:textSize="30dp"
        android:text="Aplikasi Pesan Parkir" />

    <TextView
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:text="Username"
        />
    <EditText
        android:layout_height="wrap_content"
        android:layout_width="fill_parent"
        android:id="@+id/etUsername"
        />

    <TextView
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:text="Password"
        />
    <EditText
        android:layout_height="wrap_content"
        android:layout_width="fill_parent"
        android:id="@+id/etPassword"
        android:inputType="textPassword"
        />

    <Button
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:text="Login"
        android:onClick="login"
        />
    <Button
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:text="Register"
        android:onClick="register"
        />
</LinearLayout>
```

LAMPIRAN 3

• Source menu utama

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context="parkir.pesan.program.programparkir.MenuUtamaActivity">
    <TextView
        android:layout_height="wrap_content"
        android:layout_width="fill_parent"
        android:textStyle="bold"
        android:text="Menu Utama"
        android:textAlignment="center"
        android:textSize="20dp"
        android:layout_marginBottom="10dp"
    />
    <TextView
        android:layout_height="wrap_content"
        android:layout_width="fill_parent"
        android:id="@+id/tvUser"
        android:textAlignment="center"
        android:textStyle="bold"
    />
    <TextView
        android:layout_height="wrap_content"
        android:layout_width="fill_parent"
        android:id="@+id/saldo"
        android:text="Saldo anda Rp 150,000.-"
    />
    <Button
        android:layout_height="wrap_content"
        android:layout_width="fill_parent"
        android:text="Pesanan Baru"
        android:onClick="pesananbaru"
    />
    <Button
        android:layout_height="wrap_content"
        android:layout_width="fill_parent"
        android:text="Daftar Order"
        android:onClick="daftarorder"
    />
    <Button
        android:layout_height="wrap_content"
        android:layout_width="fill_parent"
        android:text="History Pesanan"
    />
    <Button
        android:layout_height="wrap_content"
        android:layout_width="fill_parent"
        android:text="Profile"
    />
    <Button
        android:layout_height="wrap_content"
        android:layout_width="fill_parent"
        android:text="Top Up Saldo"
    />
</LinearLayout>
```

LAMPIRAN 4

- Source pilih tempat

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context="parkir.pesan.program.programparkir.PesanTempatActivity">
    <TextView
        android:layout_height="wrap_content"
        android:layout_width="fill_parent"
        android:textAlignment="center"
        android:textStyle="bold"
        android:text="Pesan Tempat Parkir"
        android:layout_marginBottom="20dp"
    />
    <TextView
        android:layout_height="wrap_content"
        android:layout_width="fill_parent"
        android:text="Tanggal Pesan"
    />
    <LinearLayout
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:weightSum="2"
    >
    <EditText
        android:layout_height="wrap_content"
        android:layout_width="0dp"
        android:layout_weight="1"
        android:id="@+id/tglPesan"
        android:enabled="false"
    />
    <Button
        android:layout_height="wrap_content"
        android:layout_width="0dp"
        android:layout_weight="1"
        android:text="Set Tanggal"
        android:onClick="setTanggal"
    />
</LinearLayout>

<TextView
    android:layout_height="wrap_content"
    android:layout_width="fill_parent"
    android:text="Jam Mulai"
/>
<LinearLayout
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
```

```

        android:weightSum="2"
    >
        <EditText
            android:layout_height="wrap_content"
            android:layout_width="0dp"
            android:layout_weight="1"
            android:id="@+id/jamMulai"
            android:enabled="false"
        />
        <Button
            android:layout_height="wrap_content"
            android:layout_width="0dp"
            android:layout_weight="1"
            android:text="Set Jam"
            android:onClick="setJam"
        />
    </LinearLayout>

    <TextView
        android:layout_height="wrap_content"
        android:layout_width="fill_parent"
        android:text="Jam Selesai"
    />
    <LinearLayout
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:weightSum="2"
    >
        <EditText
            android:layout_height="wrap_content"
            android:layout_width="0dp"
            android:layout_weight="1"
            android:id="@+id/jamSelesai"
            android:enabled="false"
        />
        <Button
            android:layout_height="wrap_content"
            android:layout_width="0dp"
            android:layout_weight="1"
            android:text="Set Jam"
            android:onClick="setJam2"
        />
    </LinearLayout>

    <TextView
        android:layout_height="wrap_content"
        android:layout_width="fill_parent"
        android:text="Lantai"
    />
    <Spinner
        android:layout_height="wrap_content"
        android:layout_width="fill_parent"
        android:id="@+id/spLantai"
    />

    <TextView
        android:layout_height="wrap_content"
        android:layout_width="fill_parent"
        android:text="Posisi"
        android:textStyle="bold"

```

```

/>
<TextView
    android:layout_height="wrap_content"
    android:layout_width="fill_parent"
    android:id="@+id/lt"
/>

<TextView
    android:layout_height="wrap_content"
    android:layout_width="fill_parent"
    android:text="Plat"
    android:textStyle="bold"
/>
<TextView
    android:layout_height="wrap_content"
    android:layout_width="fill_parent"
    android:id="@+id/plat"
/>
<Button
    android:layout_height="wrap_content"
    android:layout_width="fill_parent"
    android:text="Pilih Tempat"
    android:onClick="pilihtempat"
/>
<Button
    android:layout_height="wrap_content"
    android:layout_width="fill_parent"
    android:text="Pesan"
    android:onClick="pesan"
/>
</LinearLayout>

```




```

<?xml version="1.0" encoding="utf-8" ?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context="parkir.pesan.program.pilihTanggap" >
    <DatePicker
        android:layout_height="wrap_content"
        android:layout_width="fill_parent"
        android:id="@+id/dtPicker"
    />
    <Button
        android:layout_height="wrap_content"
        android:layout_width="fill_parent"
        android:onClick="pilih"
        android:text="pilih"
    />
</LinearLayout>

<?xml version="1.0" encoding="utf-8" ?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context="parkir.pesan.program.pilihJam" >
    <DatePicker
        android:layout_height="wrap_content"
        android:layout_width="fill_parent"
        android:id="@+id/tm"
    />
    <Button
        android:layout_height="wrap_content"
        android:layout_width="fill_parent"
        android:onClick="pilih"
        android:text="pilih"
    />
</LinearLayout>

```

● Source pilih tanggal

● Source Pilih Jam

LAMPIRAN 5



LAMPIRAN 6

- Source pilih tempat

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:weightSum="10"
    >
    <TextView
        android:layout_height="wrap_content"
        android:layout_width="fill_parent"
        android:id="@+id/lantai"
        android:textAlignment="center"
    />
    <LinearLayout
        android:layout_height="wrap_content"
        android:layout_width="fill_parent"
        android:orientation="horizontal"
        android:weightSum="2"
    >
    <Button
        android:layout_height="wrap_content"
        android:layout_width="0dp"
        android:layout_weight="1"
        android:text="Pesan"
        android:onClick="simpan"
    />
    <Button
        android:layout_height="wrap_content"
        android:layout_width="0dp"
        android:layout_weight="1"
        android:text="Batal"
        android:onClick="batal"
    />
</LinearLayout>
<LinearLayout
    android:layout_height="0dp"
    android:layout_width="fill_parent"
    android:layout_weight="8"
    android:orientation="vertical"
    android:id="@+id/l1Container"
    android:padding="5dp">

    </LinearLayout>
</LinearLayout>
```

LAMPIRAN 7

- **Source register**

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:padding="5dp">
    <TextView
        android:layout_height="wrap_content"
        android:layout_width="fill_parent"
        android:text="Register"
        android:textAlignment="center"
        android:textStyle="bold"
    />
    <TextView
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:text="Username"
    />
    <EditText
        android:layout_height="wrap_content"
        android:layout_width="fill_parent"
        android:id="@+id/etUsername"
    />
    <TextView
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:text="Password"
    />
    <EditText
        android:layout_height="wrap_content"
        android:layout_width="fill_parent"
        android:id="@+id/etPassword"
        android:inputType="textPassword"
    />
    <TextView
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:text="Konfirmasi Password"
    />
    <EditText
        android:layout_height="wrap_content"
        android:layout_width="fill_parent"
        android:id="@+id/etPassword2"
        android:inputType="textPassword"
    />

    <TextView
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:text="Nama"
    />
    <EditText
        android:layout_height="wrap_content"
        android:layout_width="fill_parent"
        android:id="@+id/etNama"
    />
```

```

<TextView
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:text="Alamat"
/>
<EditText
    android:layout_height="wrap_content"
    android:layout_width="fill_parent"
    android:id="@+id/etAlamat"
/>
<TextView
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:text="Telepon"
/>
<EditText
    android:layout_height="wrap_content"
    android:layout_width="fill_parent"
    android:id="@+id/etTelepon"
/>
<Button
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:text="Kirim"
    android:onClick="kirim"
/>
</LinearLayout>

```



LAMPIRAN 8

- Source Daftar orderan

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
  xmlns:android="http://schemas.android.com/apk/res/android"
  android:layout_width="match_parent"
  android:layout_height="wrap_content"
  android:orientation="vertical"
  >
  <LinearLayout
    android:layout_height="wrap_content"
    android:layout_width="fill_parent"
    android:weightSum="2"
    android:orientation="horizontal"
    >
    <TextView
      android:layout_height="wrap_content"
      android:layout_width="0dp"
      android:layout_weight="1"
      android:text="Kode"
      android:textStyle="bold"
      />
    <TextView
      android:layout_height="wrap_content"
      android:layout_width="0dp"
      android:layout_weight="1"
      android:id="@+id/kode"
      />
  </LinearLayout>
  <LinearLayout
    android:layout_height="wrap_content"
    android:layout_width="fill_parent"
    android:weightSum="2"
    android:orientation="horizontal"
    >
    <TextView
      android:layout_height="wrap_content"
      android:layout_width="0dp"
      android:layout_weight="1"
      android:text="Lantai"
      android:textStyle="bold"
      />
    <TextView
      android:layout_height="wrap_content"
      android:layout_width="0dp"
      android:layout_weight="1"
      android:id="@+id/lantai"
      />
  </LinearLayout>
  <LinearLayout
    android:layout_height="wrap_content"
    android:layout_width="fill_parent"
    android:weightSum="2"
    android:orientation="horizontal"
    >
    <TextView
      android:layout_height="wrap_content"
      android:layout_width="0dp"
      android:layout_weight="1"
      android:text="Tanggal"
      />
  </LinearLayout>
</LinearLayout>
```

```

        android:textStyle="bold"
    />
    <TextView
        android:layout_height="wrap_content"
        android:layout_width="0dp"
        android:layout_weight="1"
        android:id="@+id/tanggal"
    />
</LinearLayout>
<LinearLayout
    android:layout_height="wrap_content"
    android:layout_width="fill_parent"
    android:weightSum="2"
    android:orientation="horizontal"
>
    <TextView
        android:layout_height="wrap_content"
        android:layout_width="0dp"
        android:layout_weight="1"
        android:text="Jam Mulai"
        android:textStyle="bold"
    />
    <TextView
        android:layout_height="wrap_content"
        android:layout_width="0dp"
        android:layout_weight="1"
        android:id="@+id/jammulai"
    />
</LinearLayout>
<LinearLayout
    android:layout_height="wrap_content"
    android:layout_width="fill_parent"
    android:weightSum="2"
    android:orientation="horizontal"
>
    <TextView
        android:layout_height="wrap_content"
        android:layout_width="0dp"
        android:layout_weight="1"
        android:text="Jam Selesai"
        android:textStyle="bold"
    />
    <TextView
        android:layout_height="wrap_content"
        android:layout_width="0dp"
        android:layout_weight="1"
        android:id="@+id/jamselesai"
    />
</LinearLayout>
<LinearLayout
    android:layout_height="wrap_content"
    android:layout_width="fill_parent"
    android:weightSum="2"
    android:orientation="horizontal"
>
    <TextView
        android:layout_height="wrap_content"
        android:layout_width="0dp"
        android:layout_weight="1"
        android:text="Posisi"
        android:textStyle="bold"
    />
    <TextView

```

```

        android:layout_height="wrap_content"
        android:layout_width="0dp"
        android:layout_weight="1"
        android:id="@+id/posisi"
    />
</LinearLayout>
<LinearLayout
    android:layout_height="wrap_content"
    android:layout_width="fill_parent"
    android:weightSum="2"
    android:orientation="horizontal"
    >
    <TextView
        android:layout_height="wrap_content"
        android:layout_width="0dp"
        android:layout_weight="1"
        android:text="Plat"
        android:textStyle="bold"
    />
    <TextView
        android:layout_height="wrap_content"
        android:layout_width="0dp"
        android:layout_weight="1"
        android:id="@+id/plat"

```



LAMPIRAN 9

- Source code Wemos *SCAN*

```
#include <SPI.h> // protokol komunikasi serial data

#include <ESP8266WiFi.h>

#include <WiFiClient.h>

#include <MySQL_Connection.h>

#include <MySQL_Cursor.h>

const int ledPin=14; //D5

const int buzzerPin=4; //D2

/*-----*/

// koneksi ke SSID WiFi

char ssid[] = "Andromax-M3Y";

char pass[] = "bintoro6";

byte mac[6];

/*-----*/

// setting wemos server

WiFiServer server(80); // port server (Apache)

IPAddress host(192, 168, 1, 102); // IP Wemos D1 as Server

IPAddress gateway(192, 168, 1, 1); // gateway network

IPAddress subnet(255, 255, 255, 0); // subnet mask network

/*-----*/

// koneksi ke server MySQL
```



```

IPAddress IPserver(192, 168, 1, 101); // IP laptop

int portSQL = 3306;

char userDB[] = "akses";

char passDB[] = "akses";

bool sql = false;

/*-----*/

// setting wemos client

WiFiClient client;

MySQL_Connection conn((Client *)&client);

MySQL_Cursor cursor(&conn);

/*-----*/

// Sensor Ultrasonik

const int trigPin = 12; // D6

const int echoPin = 13; // D7

long durasi;

int jarak;

bool deteksi = false; // jika jarak antara 1 - 10 cm, variabel "deteksi" akan

TRUE

/*-----*/

char *cekUser(String plat) {

    char query[300]; // panjang max karakter query

    strcpy(query, "SELECT plat FROM parkir.user WHERE Plat = '");
```

```

    bool user = false;
    bool userExists(String plat) {
    }

    return query;

    strcat(query, "");
    strcat(query, plat_c_str()); // konversi concat
    strcpy(query, "UPDATE parkir.parkir SET masuk = ("");
    char query[300]; // panjang max karakter query
    char *updateQuery(String plat) {
    }

    return query;

    strcat(query, "");
    strcat(query, plat_c_str()); // konversi concat
    strcpy(query, "SELECT masuk FROM parkir.parkir WHERE masuk =
    char query[300]; // panjang max karakter query
    char *selectQuery(String plat) {
    }

    return query;

    strcat(query, "");
    strcat(query, plat_c_str()); // konversi concat

```

```

Serial.println(cekUser(plat));

Serial.println("\r");

if (conn.connect(IPserver, portSQL, userDB, passDB)) {

    MySQL_Cursor cursor(&conn);

    cursor.execute(cekUser(plat));

    cursor.get_columns();

    if (cursor.get_next_row() != NULL) {

        user = true;

        Serial.println("User Terdaftar. \r\n");

        digitalWrite(buzzerPin,LOW);

    } else {

        digitalWrite(buzzerPin,HIGH);

        delay(10);

        Serial.println("User Tidak Ditemukan !! \r\n");\

    }

} else {

    Serial.println("Koneksi Database Error !! \r\n");

} return user;

}

bool dataExist(String plat) {

    bool exist = false;

```

```

Serial.println(selectQuery(plat));

Serial.println("\r");

if (conn.connect(IPserver, portSQL, userDB, passDB)) {

    MySQL_Cursor cursor(&conn);

    cursor.execute(selectQuery(plat));

    cursor.get_columns();

    if (cursor.get_next_row() != NULL) {

        exist = true;

    }

} else {

    Serial.println("Koneksi Database Error !! \r");

} return exist;

}

bool dataUpdate(String plat) {

    bool success = false;

    if (conn.connect(IPserver, portSQL, userDB, passDB)) {

        if (dataExist(plat) != true) {

            MySQL_Cursor cursor(&conn);

            Serial.println(updateQuery(plat));

            Serial.println("\r");

            cursor.execute(updateQuery(plat));

        } else {

            Serial.println("User sudah parkir !! \r\n");

```

```

    digitalWrite(buzzerPin, HIGH);

    delay(3000);

    digitalWrite(buzzerPin, LOW);

}

} else {

    Serial.println("Koneksi Database Error !! \r\n");

} return success;

}

bool cekJarak() {

    digitalWrite(trigPin, LOW);

    delayMicroseconds(2);

    digitalWrite(trigPin, HIGH);

    delayMicroseconds(10);

    digitalWrite(trigPin, LOW);

    durasi = pulseIn(echoPin, HIGH);

    jarak = (durasi / 2) / 29.1; // Calculating the distance in cm

    Serial.print("Jarak : "); // Print Jarak

    Serial.print(jarak);

    Serial.println(" cm");

    if (jarak <= 0 || jarak >= 7) {

        Serial.println("Kendaraan Tidak Terdeteksi\r\n");

        digitalWrite(LED_BUILTIN, LOW);

```

```

digitalWrite(ledPin, LOW);

delay(1000);

} else {

Serial.println("Kendaraan Terdeteksi\r\n");

digitalWrite(ledPin, HIGH);

delay(1000);

return true;

} return false;

}

bool querySQL() {
WiFiClient client = server.available();
if (client) {
if (client.connected()) {
digitalWrite(LED_BUILTIN, LOW);
Serial.println(".");

String plat = client.readStringUntil('\r'); // receives message from client

Serial.println("Data dari Client : ");

Serial.println(plat);

client.flush();

client.println("Hi client! Selamat Datang.. \r"); // sends answer to client

digitalWrite(LED_BUILTIN, HIGH);

if (userExist(plat) == true) {

```

```

    if (dataUpdate(plat) == true) {
        Serial.println("Data Berhasil Disimpan.. \r");
    }
}
}
}
}
}

void setup() {
    Serial.begin(115200);
    SPI.begin(); // Init SPI bus
    pinMode(buzzerPin,OUTPUT);
    pinMode(ledPin,OUTPUT);
    pinMode(trigPin, OUTPUT); // trigPin as an Output Ultrasonic
    pinMode(echoPin, INPUT); // echoPin as an Input Ultrasonic

    Serial.printf("\nMenghubungkan ke %s", ssid);

    WiFi.begin(ssid, pass);

    WiFi.config(host, gateway, subnet); // set static IP

    while (WiFi.status() != WL_CONNECTED) {
        Serial.print(".");
        delay(500);
    }
}

```

```

Serial.print("\nTerhubung ke : ");

Serial.println(ssid);

server.begin(); // start the server

pinMode(LED_BUILTIN, OUTPUT);

Serial.println("Menghubungkan ke Server...");

Serial.print("STATUS : ");

if (conn.connect(IPserver, portSQL, userDB, passDB)) {

Serial.println("Koneksi ke Server SUKSES.\r\n");

} else {

Serial.println("Koneksi ke Server GAGAL\r\n.");

}

}

void loop() {

deteksi = cekJarak(); // jika jarak antara 1 - 10 cm, variabel "deteksi" akan
TRUE

if (deteksi) {

sql = querySQL();

Serial.println("Data Sukses Disimpan..\r\n");

}

}

```


LAMPIRAN 10

```
#include <SPI.h> // protokol komunikasi serial data

#include <ESP8266WiFi.h>

char ssid[] = "ASUS_X00TD";

char pass[] = "muhamad08";

byte mac[6];

IPAddress host(192,168,43,181); //ip wemos portal masuk & keluar

WiFiClient client;

void setup() {

Serial.begin(115200);

Serial.printf("\nMenghubungkan ke %s", ssid);

WiFi.begin(ssid, pass); // connect ke WiFi

while (WiFi.status() != WL_CONNECTED) {

Serial.print(".");

delay(500);

}

Serial.print("\nTerhubung ke : "); // print out info koneksi

Serial.println(ssid);

pinMode(LED_BUILTIN, OUTPUT);

}

void loop() {

client.connect(host, 80); // Connection to the server

digitalWrite(LED_BUILTIN, LOW);
```

```
Serial.println(".");  
  
// kirim data nomor plat ke server  
  
client.println("L 1237 MW");  
  
String answer = client.readStringUntil('\r'); // terima balasan dari server  
  
Serial.println("Server : " + answer);  
  
client.flush();  
  
digitalWrite(LED_BUILTIN, HIGH);  
  
delay(2000); // client will trigger the communication after two seconds  
  
}
```

