

DAFTAR PUSTAKA

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LAMPIRAN

Lampiran 1 kodeArduino RFID remote

```
#include <SPI.h>
#include <RFID.h>
#define SS_PIN 10
#define RST_PIN 9
RFID rfid(SS_PIN,RST_PIN);
char text[50];
#include <IRremote.h>
IRsend irsend;

void setup() {
  Serial.begin(9600);
  SPI.begin();
  rfid.init();
}

void loop() {

  if(rfid.isCard() && digitalRead(2) == HIGH){
    if(rfid.readCardSerial()){
      Serial.print(rfid.serNum[0]);
      Serial.print(" ");
      Serial.print(rfid.serNum[1]);
      Serial.print(" ");
      Serial.print(rfid.serNum[2]);
      Serial.print(" ");
      Serial.println(rfid.serNum[3]);
    }
  }
}
```

```

        irsend.sendSony(rfid.serNum[3], 12);

    }
    rfid.halt();
}
delay(500);
}

```

Lampiran 2. Tes esp8266 gerbang tol

```

#include <ESP8266WiFi.h>
#include <ESP8266HTTPClient.h>
#include <ArduinoJson.h>
#include <IRremoteESP8266.h>
#include <IRrecv.h>
#include <IRutils.h>
#include <Servo.h>
Servo servoku;

const char* ssid = "kepoya";
const char* password = "jangantanya";
char url[100];
int ir;

const uint16_t kRecvPin = 14;
IRrecv irrecv(kRecvPin);

decode_results results;

void setup () {

```

```

Serial.begin(115200);
WiFi.begin(ssid, password);
servoku.attach(2);
servoku.write(0);
irrecv.enableIRIn();
while (WiFi.status() != WL_CONNECTED) {
    delay(1000);
    Serial.print("Connecting..");
}
}

void loop() {
    if ((WiFi.status() == WL_CONNECTED)&&(irrecv.decode(&results))) { //Check
WiFi connection status
        serialPrintUint64(results.value, HEX);
        int ir = results.value;
        Serial.println(ir);
        // Receive the next value
        HTTPClient http; //Declare an object of class HTTPClient
        snprintf (url, 100, "http://fahmisyafudin.site/etoll/proses.php?id=%d", ir);
        Serial.println(url);
        http.begin(url); //Specify request destination
        int httpCode = http.GET();
        irrecv.resume();
        Serial.println("Result");
        if (httpCode > 0) {
            // Parsing
            const size_t bufferSize = JSON_OBJECT_SIZE(2) + JSON_OBJECT_SIZE(3)
+ JSON_OBJECT_SIZE(5) + JSON_OBJECT_SIZE(8) + 370;

```

```

DynamicJsonBuffer jsonBuffer(bufferSize);
JsonObject& root = jsonBuffer.parseObject(http.getString());
// Parameters
int RFID = root["RFID"]; // 1
const char* nama = root["Nama"]; //
int Saldo = root["Saldo"];
// Output to serial monitor
Serial.print("RFID:");
Serial.println(RFID);
Serial.print("Nama:");
Serial.println(nama);
Serial.print("Saldo:");
Serial.println(Saldo);
if(Saldo==0){
  Serial.println("Maaf Saldo Habis");
}else if(Saldo>0){
  servoku.write(90);
  delay(5000);
  servoku.write(0);
}

}

http.end();//Close connection

}

delay(100); //Send a request every 30 seconds
}

```

Lampiran 3 Kode proses data base

```
<?php
include_once("koneksi.php");
$id = isset($_GET['id']) ? $_GET['id'] : false;

$query = mysqli_query($koneksi, "SELECT * FROM user WHERE RFID='$id' "
);
if (mysqli_num_rows($query) == 0) {
    echo "Kartu Belum terdaftar";
    mysqli_query($koneksi, "INSERT INTO log VALUES(',$id', 'Kartu Belum
Terdaftar', now())" );
} else {
    $row = mysqli_fetch_assoc($query);
    $myObj = new stdClass();
    $myObj->RFID = $row['RFID'];
    $myObj->Nama = $row['Nama'];
    $nama = $row['Nama'];
    $Saldo = $row['Saldo'] - 10000;
    mysqli_query($koneksi, "UPDATE user SET Saldo='$Saldo' WHERE RFID='$id'
AND $Saldo>0");
    mysqli_query($koneksi, "INSERT INTO log VALUES(',$id', '$nama', now())"
);
    $myObj->Saldo = $Saldo;
    $myJSON = json_encode($myObj);

    echo $myJSON;
}

?>
```