LAMPIRAN

Listing Program Arduino

//**Finger.ino**

```
#include <Adafruit_Fingerprint.h>
#include <SoftwareSerial.h>

#define buka  0
#define kunci 1

SoftwareSerial mySerial(10, 11);
Adafruit_Fingerprint finger = Adafruit_Fingerprint(&mySerial);

uint8_t id;
uint8_t getFingerprintEnroll();

String inputString = "";

boolean cek_finger = false;
boolean tambah = false;
boolean hapus = false;

uint8_t readnumber(void) {
  uint8_t num = 0;
  boolean validnum = false;
  while (1) {
    while (! Serial.available());
    char c = Serial.read();
    if (isdigit(c)) {
```

```
      num *= 10;
      num += c - '0';
      validnum = true;
    } else if (validnum) {
     return num;
    }
  }
}

void setup() {
  // put your setup code here, to run once:
  while (!Serial);  // For Yun/Leo/Micro/Zero/...

  Serial.begin(9600);
  Serial.println("Adafruit finger detect test");

  // set the data rate for the sensor serial port
  finger.begin(57600);

  if (finger.verifyPassword()) {
    Serial.println("Found fingerprint sensor!");
  } else {
    Serial.println("Did not find fingerprint sensor :(");
    while (1);
  }
  pinMode(2, OUTPUT);
  pinMode(3, OUTPUT);
```

```
  digitalWrite(2, HIGH);
  digitalWrite(3, LOW);
//  Serial.println("Waiting for valid finger...");
}

void loop() {
  // put your main code here, to run repeatedly:
//  add_finger();
//  scan_finger();
//  delete_finger();
  if(cek_finger)
  {
    scan_finger();
  }
  if(tambah)
  {
    add_finger();
  }
  if(hapus)
  {
    delete_finger();
  }
}
//****Finger_sensor.ino
int scan_finger() {
  uint8_t p = finger.getImage();
  if (p != FINGERPRINT_OK)  return -1;
```

```
  p = finger.image2Tz();
  if (p != FINGERPRINT_OK)  return -1;

  p = finger.fingerFastSearch();
  if (p == FINGERPRINT_OK) {
//    Serial.println("Data Tidak Ditemukan!");
  } else if (p == FINGERPRINT_PACKETRECIEVEERR) {
    Serial.println("Communication error");
    return p;
  } else if (p == FINGERPRINT_NOTFOUND) {
    Serial.println("Data Tidak Ditemukan");
    digitalWrite(2, HIGH);
    digitalWrite(3, HIGH);
    cek_finger = false;
    delay(500);
    digitalWrite(3, LOW);
    return p;
  } else {
    Serial.println("Unknown error");
    return p;
  }

  // found a match!
//  Serial.print("ID");
  Serial.print(finger.fingerID); Serial.println(",");
//  digitalWrite(2, LOW); delay(1000);
```

```
//  digitalWrite(2, HIGH);
//  Serial.print(" with confidence of "); Serial.println(finger.confidence);
  cek_finger = false;
  delay(200);
  return finger.fingerID;
}

void door_lock(int aksi)
{
  if(aksi == 0)
  {
    digitalWrite(2, LOW); delay(2000);   //WAKTU DOORLOCK
    digitalWrite(2, HIGH);
  }
  else{
    digitalWrite(2, HIGH); delay(1000);
    digitalWrite(2, HIGH);
  }
}
void delete_finger()
{
  Serial.println("Type in the ID # you want delete...");
  id = readnumber();
  Serial.print("deleting ID #");
  Serial.println(id);
  deleteFingerprint(id);
}
```

```
uint8_t deleteFingerprint(uint8_t id) {
  uint8_t p = -1;

  p = finger.deleteModel(id);

  if (p == FINGERPRINT_OK) {
    Serial.println("Deleted!");
  } else if (p == FINGERPRINT_PACKETRECIEVEERR) {
    Serial.println("Communication error");
    return p;
  } else if (p == FINGERPRINT_BADLOCATION) {
    Serial.println("Could not delete in that location");
    return p;
  } else if (p == FINGERPRINT_FLASHERR) {
    Serial.println("Error writing to flash");
    return p;
  } else {
    Serial.print("Unknown error: 0x"); Serial.println(p, HEX);
    return p;
  }
  hapus = false;
}

void add_finger()
{
```

```
  Serial.println("Ready to enroll a fingerprint! Please Type in the ID # you want to save this finger as...");
  id = readnumber();
  Serial.print("Enrolling ID #");
  Serial.println(id);

  while (!  getFingerprintEnroll() );
}
uint8_t getFingerprintEnroll() {

  int p = -1;
  Serial.print("Waiting for valid finger to enroll as #"); Serial.println(id);
  while (p != FINGERPRINT_OK) {
    p = finger.getImage();
    switch (p) {
    case FINGERPRINT_OK:
      Serial.println("Image taken");
      break;
    case FINGERPRINT_NOFINGER:
      Serial.println(".");
      break;
    case FINGERPRINT_PACKETRECIEVEERR:
      Serial.println("Communication error");
      break;
    case FINGERPRINT_IMAGEFAIL:
      Serial.println("Imaging error");
      break;
```

```
  default:
    Serial.println("Unknown error");
    break;
  }
}

// OK success!

p = finger.image2Tz(1);
switch (p) {
  case FINGERPRINT_OK:
    Serial.println("Image converted");
    break;
  case FINGERPRINT_IMAGEMESS:
    Serial.println("Image too messy");
    return p;
  case FINGERPRINT_PACKETRECIEVEERR:
    Serial.println("Communication error");
    return p;
  case FINGERPRINT_FEATUREFAIL:
    Serial.println("Could not find fingerprint features");
    return p;
  case FINGERPRINT_INVALIDIMAGE:
    Serial.println("Could not find fingerprint features");
    return p;
  default:
    Serial.println("Unknown error");
```

```
   return p;
}

Serial.println("Remove finger");
delay(2000);
p = 0;
while (p != FINGERPRINT_NOFINGER) {
  p = finger.getImage();
}
Serial.print("No_ID "); Serial.println(id);
p = -1;
Serial.println("Place same finger again");
while (p != FINGERPRINT_OK) {
  p = finger.getImage();
  switch (p) {
  case FINGERPRINT_OK:
    Serial.println("Image taken");
    break;
  case FINGERPRINT_NOFINGER:
    Serial.print(".");
    break;
  case FINGERPRINT_PACKETRECIEVEERR:
    Serial.println("Communication error");
    break;
  case FINGERPRINT_IMAGEFAIL:
    Serial.println("Imaging error");
    break;
```

```
  default:
    Serial.println("Unknown error");
    break;
  }
}

// OK success!

p = finger.image2Tz(2);
switch (p) {
  case FINGERPRINT_OK:
    Serial.println("Image converted");
    break;
  case FINGERPRINT_IMAGEMESS:
    Serial.println("Image too messy");
    return p;
  case FINGERPRINT_PACKETRECIEVEERR:
    Serial.println("Communication error");
    return p;
  case FINGERPRINT_FEATUREFAIL:
    Serial.println("Could not find fingerprint features");
    return p;
  case FINGERPRINT_INVALIDIMAGE:
    Serial.println("Could not find fingerprint features");
    return p;
  default:
    Serial.println("Unknown error");
```

```
   return p;
}

// OK converted!
Serial.print("Creating model for #");  Serial.println(id);

p = finger.createModel();
if (p == FINGERPRINT_OK) {
  Serial.println("Prints matched!");
} else if (p == FINGERPRINT_PACKETRECIEVEERR) {
  Serial.println("Communication error");
  return p;
} else if (p == FINGERPRINT_ENROLLMISMATCH) {
  Serial.println("Fingerprints did not match");
  return p;
} else {
  Serial.println("Unknown error");
  return p;
}

Serial.print("No_ID "); Serial.println(id);
p = finger.storeModel(id);
if (p == FINGERPRINT_OK) {
  Serial.println("Stored!");
} else if (p == FINGERPRINT_PACKETRECIEVEERR) {
  Serial.println("Communication error");
  return p;
```

```
  } else if (p == FINGERPRINT_BADLOCATION) {
    Serial.println("Could not store in that location");
    return p;
  } else if (p == FINGERPRINT_FLASHERR) {
    Serial.println("Error writing to flash");
    return p;
  } else {
    Serial.println("Unknown error");
    return p;
  }
  tambah = false;
}
```

//**Serial_data.ino**

```
void serialEvent() {
   while (Serial.available()) {
     char inChar = (char)Serial.read();
     inputString += inChar;
     if (inChar == '\n')
     {
      if(inputString.substring(0,3)=="cek"){
        cek_finger = true;
      }
      else if(inputString.substring(0,3)=="add"){
        tambah = true;
      }
      else if(inputString.substring(0,3)=="del"){
```

```
      hapus = true;
    }
    else if(inputString.substring(0,3)=="buk"){
      door_lock(buka);
    }
    else if(inputString.substring(0,3)=="kun"){
      door_lock(kunci);
    }
    inputString="";
   }
  }
}
```

Program VB

‘ Form1

```
Imports System
Imports System.IO
ImportsSystem.IO.Ports
ImportsSystem.Threading
ImportsSystem.ComponentModel
ImportsSystem.Text
ImportsSystem.Runtime.InteropServices
Imports Microsoft.Win32
ImportsSystem.Drawing.Imaging
ImportsSystem.Drawing.Drawing2D
'Imports System.Windows.Forms.DataVisualization.Charting
ImportsSystem.Data.OleDb
ImportsSystem.Text.RegularExpressions
ImportsSystem.Data
ImportsSystem.Data.Odbc
ImportsSystem.Data.DataTable

PublicClassForm1

DelegateSubMyMethodeDelegate(ByVal [text] AsString)
DimmydelegateAsNewMyMethodeDelegate(AddressOfShowString)

DimmyStringBuilderAsNewStringBuilder
Dimid_fingerAsString
Dim jam AsInteger
```

```
Dimmenit AsInteger

Dim provider AsString
DimdataFile AsString
DimconnString AsString
DimmyConnection AsOleDbConnection = NewOleDbConnection
PublicdrAsOleDbDataReader

PrivateSubcheck()
myConnection.Open()
        TextBox4.Clear()
        TextBox5.Clear()
        TextBox6.Clear()
DimstrAsString
str = "SELECT * FROM Finger WHERE (id = '"& TextBox3.Text &"')"
DimcmdAsOleDbCommand = NewOleDbCommand(str, myConnection)
dr = cmd.ExecuteReader
Whiledr.Read()
            TextBox4.Text = dr("Nama").ToString
            TextBox5.Text = dr("Nomor_ID").ToString
            TextBox6.Text = dr("Status").ToString
EndWhile
If TextBox6.Text = "Dosen"Then
            SerialPort1.WriteLine("buk")
ElseIf TextBox6.Text = "Mahasiswa"AndTimeOfDay.Hour>= 7 AndTimeOfDay.Hour<
18 Then
            SerialPort1.WriteLine("buk")
EndIf
myConnection.Close()
EndSub

PrivateSubGetSerialPortNames()
ForEach serialport1ort AsStringInMy.Computer.Ports.SerialPortNames
ComboBox1.Items.Add(serialport1ort)
Next
EndSub

PrivateSub Button2_Click(ByVal sender AsSystem.Object, ByVal e
AsSystem.EventArgs) Handles Button2.Click
OnErrorResumeNext
        SerialPort1.PortName = ComboBox1.Text
        SerialPort1.BaudRate = ComboBox2.Text
        SerialPort1.DataBits = 8
        SerialPort1.Parity = IO.Ports.Parity.None
        SerialPort1.StopBits = IO.Ports.StopBits.One
        SerialPort1.Open()
If SerialPort1.IsOpen = TrueThen
MsgBox("Commportsuksesdibuka", vbInformation)
            Button1.Enabled = True
            Button2.Enabled = False
            Button3.Enabled = True
            TextBox2.Text = ""
ElseIf SerialPort1.IsOpen = FalseThen
MsgBox("comport salah", vbCritical)
EndIf
EndSub
```

```
PrivateSub Button3_Click(ByVal sender AsSystem.Object, ByVal e
AsSystem.EventArgs) Handles Button3.Click
Try
            SerialPort1.Close()
'SerialPort1.Close()
            Button1.Enabled = False
            Button2.Enabled = True
            Button3.Enabled = False
'Timer2.Stop()
Catch
MessageBox.Show("Some kind of problem.")
EndTry
EndSub

PrivateSub Button4_Click(ByVal sender AsSystem.Object, ByVal e
AsSystem.EventArgs) Handles Button4.Click
        TextBox2.Text = ""
EndSub

PrivateSub Button1_Click(ByVal sender AsSystem.Object, ByVal e
AsSystem.EventArgs) Handles Button1.Click
        SerialPort1.WriteLine(TextBox1.Text)
EndSub

PrivateSub Form1_Load(ByVal sender AsSystem.Object, ByVal e
AsSystem.EventArgs) HandlesMyBase.Load
'TODO: This line of code loads data into the 'FingerDataSet2.Finger' table.
You can move, or remove it, as needed.
Me.FingerTableAdapter2.Fill(Me.FingerDataSet2.Finger)
'TODO: This line of code loads data into the 'FingerDataSet1.Finger' table.
You can move, or remove it, as needed.
Me.FingerTableAdapter1.Fill(Me.FingerDataSet1.Finger)
'TODO: This line of code loads data into the 'FingerDataSet.Finger' table.
You can move, or remove it, as needed.
Me.FingerTableAdapter.Fill(Me.FingerDataSet.Finger)
        provider = "Provider=Microsoft.ACE.OLEDB.12.0;Data Source ="
dataFile = Application.StartupPath&"\finger.accdb"
connString = provider &dataFile
myConnection.ConnectionString = connString

        SerialPort1.Close()

Dimbaudrate() AsString = {"1200", "2400", "4800", "9600", "19200", "38400",
"57600", "115200"}
ComboBox2.Items.AddRange(baudrate)
        ComboBox2.SelectedIndex = 3
        Button3.Enabled = False
Try
GetSerialPortNames()
            ComboBox1.SelectedIndex = 0
            TextBox2.Text = "Port Detection : "& ComboBox1.Text
Catch
            TextBox2.Text = "No Ports Detections"
For x = 1 To 16
ComboBox1.Items.Add("COM"& x)
Next
EndTry
```

```
        Timer1.Enabled = True
EndSub

PrivateSub Form1_Shown(ByVal sender AsObject, ByVal e AsSystem.EventArgs)
HandlesMe.Shown
Application.DoEvents()
EndSub

PrivateSub Button5_Click(ByVal sender AsSystem.Object, ByVal e
AsSystem.EventArgs) Handles Button5.Click
        SerialPort1.Close()
        SerialPort1.DtrEnable = False
End
EndSub

SubShowString(ByValmystringAsString)
OnErrorResumeNext
Dims() AsString = Split(mystring, ",")
        TextBox2.AppendText(mystring&vbNewLine)
id_finger = s(0)
        TextBox3.Text = s(0)
check()
'If id_finger(0) = "I" And id_finger(1) = "D" Then
'TextBox3.Text = s(0)
'End If
EndSub

PrivateSub SerialPort1_DataReceived(ByVal sender AsObject, ByVal e
AsSystem.IO.Ports.SerialDataReceivedEventArgs) Handles
SerialPort1.DataReceived
Try
DimstrAsString = SerialPort1.ReadLine()
BeginInvoke(mydelegate, str)
CatcheeAsException

EndTry
EndSub

PrivateSub Button7_Click(ByVal sender AsSystem.Object, ByVal e
AsSystem.EventArgs) Handles Button7.Click
If SerialPort1.IsOpen() Then
'SerialPort1.WriteLine("add")
add_data.Show()
EndIf
EndSub

PrivateSub Button8_Click(ByVal sender AsSystem.Object, ByVal e
AsSystem.EventArgs) Handles Button8.Click
If SerialPort1.IsOpen() Then
            SerialPort1.WriteLine("del")

DimsqlAsString
sql = "DELETE * FROM Finger WHERE (id = '"& TextBox3.Text &"')"
DimcmdAsOleDbCommand
Try
myConnection.Open()
cmd = NewOleDbCommand(sql, myConnection)
```

```
cmd.ExecuteNonQuery()
MessageBox.Show("Deleted Successfully")
myConnection.Close()
cmd.Dispose()
Catch ex AsOleDbException
MsgBox(ex.Message, MsgBoxStyle.Critical, "Oledb Error")
Catch ex AsException
MsgBox(ex.Message, MsgBoxStyle.Critical, "General Error")
EndTry
EndIf
EndSub


PrivateSub Timer1_Tick(ByVal sender AsSystem.Object, ByVal e
AsSystem.EventArgs) Handles Timer1.Tick
'check()
        Label3.Text = Now
        Label4.Text = TimeOfDay.Hour&":"&TimeOfDay.Minute
        jam = TimeOfDay.Hour
menit = TimeOfDay.Minute
If SerialPort1.IsOpen() Then
            SerialPort1.WriteLine("cek")
EndIf
EndSub

EndClass
```

‘Form add data

```
Imports System
Imports System.IO
ImportsSystem.IO.Ports
ImportsSystem.Threading
ImportsSystem.ComponentModel
ImportsSystem.Text
ImportsSystem.Runtime.InteropServices
Imports Microsoft.Win32
ImportsSystem.Drawing.Imaging
ImportsSystem.Drawing.Drawing2D
'Imports System.Windows.Forms.DataVisualization.Charting
ImportsSystem.Data.OleDb
ImportsSystem.Text.RegularExpressions

PublicClassadd_data

Dim provider AsString
DimdataFileAsString
DimconnStringAsString
DimmyConnectionAsOleDbConnection = NewOleDbConnection

PrivateSubdatabase()
        provider = "Provider=Microsoft.ACE.OLEDB.12.0;Data Source ="
dataFile = Application.StartupPath&"\finger.accdb"
connString = provider &dataFile
myConnection.ConnectionString = connString
```

```
myConnection.Open()
DimstrAsString
str = "insert into Finger ([Id], [Nama], [Nomor_ID], [Status]) values (?,
?, ?, ?)"
DimcmdAsOleDbCommand = NewOleDbCommand(str, myConnection)
cmd.Parameters.Add(NewOleDbParameter("Id", CType(TextBox1.Text, String)))
cmd.Parameters.Add(NewOleDbParameter("Nama", CType(TextBox2.Text, String)))
cmd.Parameters.Add(NewOleDbParameter("Nomor_ID", CType(TextBox3.Text,
String)))
cmd.Parameters.Add(NewOleDbParameter("Status", CType(ComboBox1.Text,
String)))
'cmd.Parameters.Add(New OleDbParameter("Yaw", CType(TextBox5.Text,
String)))
'cmd.Parameters.Add(New OleDbParameter("Yaw", CType(TextBox8.Text + "\" +
TextBox11.Text + ".png", String)))
Try
cmd.ExecuteNonQuery()
cmd.Dispose()
myConnection.Close()
Catch ex AsException
MsgBox(ex.Message)
EndTry
EndSub

PrivateSub Button1_Click(ByVal sender AsSystem.Object, ByVal e
AsSystem.EventArgs) Handles Button1.Click
        Form1.SerialPort1.WriteLine(TextBox1.Text)
database()
EndSub

PrivateSub Button3_Click(ByVal sender AsSystem.Object, ByVal e
AsSystem.EventArgs) Handles Button3.Click
        Form1.SerialPort1.WriteLine("add")
        TextBox1.Enabled = True
        TextBox2.Enabled = True
        ComboBox1.Enabled = True
EndSub

PrivateSubadd_data_Load(ByVal sender AsSystem.Object, ByVal e
AsSystem.EventArgs) HandlesMyBase.Load
        TextBox1.Enabled = False
        TextBox2.Enabled = False
        ComboBox1.Enabled = False
EndSub

PrivateSub Button2_Click(ByVal sender AsSystem.Object, ByVal e
AsSystem.EventArgs) Handles Button2.Click
Me.Hide()
EndSub
EndClass
```

KEMENTRIAN RISET, TEKNOLOGI DAN PENDIDIKAN TINGGI
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KESEPAKATAN BIMBINGAN LAPORAN AKHIR

Kami yang bertanda tangan di bawah ini,

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Pada hari ini Senin tanggal 3/4/2017 telah sepakat untuk melakukan komsultasi bimbingan Laporan Akhir.
Konsultasi bimbingan sekurang-kurangnya 1 (satu) kali dalam satu minggu. Pelaksanaan bimbingan pada setiap hari Selasa pukul 10.00, tempat di Politeknik Negeri Sriwijaya.
Demikianlah kesepakatan ini dibuat dengan penuh kesadaran guna kelancaran penyelesaian Laporan Akhir.

Palembang, 3 April 2017

Pihak Pertama,

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KESEPAKATAN BIMBINGAN LAPORAN AKHIR

Kami yang bertanda tangan di bawah ini,

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Program Studi	: Teknik Komputer

Pada hari ini ..Senin..... tanggal ..3../..9../..2017.. telah sepakat untuk melakukan komsultasi bimbingan Laporan Akhir.
Konsultasi bimbingan sekurang-kurangnya 1 (satu) kali dalam satu minggu. Pelaksanaan bimbingan pada setiap hari ..Selasa..... pukul ....10.00....., tempat di **Politeknik** Negeri Sriwijaya.
Demikianlah kesepakatan ini dibuat dengan penuh kesadaran guna kelancaran penyelesaian Laporan Akhir.

Palembang, 3 April 2017

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REKOMENDASI UJIAN LAPORAN AKHIR (LA)

Pembimbing Laporan Akhir memberikan Rekomendasi kepada,

Nama	: Akbar Prawira
NIM	: 061430701459
Jurusan/Program Studi	: Teknik Komputer
Judul Laporan	: Rancang Bangun Sistem Keamanan Pintu Pada Ruang Server Menggunakan *Fingerprint* Mikrokontroler

Mahasiswa tersebut telah memenuhi persyaratan dan dapat mengikuti Ujian Laporan Akhir (LA) pada tahun Akademik 2017.

Palembang, 5 - Juli - 2017

Pembimbing I,	Pembimbing II,
Adi Sutrisman, S.Kom., M.Kom.	Hartati Deviana, S.T., M.Kom.
NIP 197503052001121005	NIP 197405262008122001

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PELAKSANAAN REVISI LAPORAN AKHIR (LA)

Ruang : 4
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Jurusan/Program Studi : Teknik Komputer/ DIII
Judul Laporan Akhir : Rancang Bangun Sistem Keamanan Pintu Pada Ruang Server Menggunakan *Fingerprint* Berbasis Mikrokontroler

No	Nama Dosen Penguji *)	Revisi	Ket	Paraf yang Mengesahkan	
				Pembimbing I	Pembimbing II
1	Yulian Mirza,ST.,M.Kom	1. Pembahasan 2. Kesimpulan	ACC		
2	Ali Firdaus,S.Kom.,M.Kom	1. Cara Kerja Selenoid	ACC		
3	Alan Novi Tumpunu,ST.,MT	1. Library,Data Serial 2. Cara Rekam Data	ACC		
4	Meyi Darlies,M.Kom	-	ACC		

Palembang, Juli 2017
Mengetahui,
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LEMBAR KONSULTASI BIMBINGAN LAPORAN AKHIR

Nama Anggota : **Akbar Prawira**
NIM : **061430701459**
Jurusan : **Teknik Komputer**
Judul Laporan Akhir : **RANCANG BANGUN SISTEM KEAMANAN PINTU PADA RUANG SERVER MENGGUNAKAN *FINGERPRINT* BERBASIS MIKROKONROLER**

Dosen Pembimbing I*) : Adi Sutrisman, S.Kom.,M.Kom.

No.	Tanggal Konsultasi	Uraian Konsultasi	Paraf Pembimbing
1.	3/5/2017	Kesepakatan hari Bimbingan	
2.	17/5/2017	Konsultasi Bab I	
3.	6/6/2017	Bab I dan Bab II Revisi	
4.	13/6/2017	Acc Bab I Acc Bab II	
5.	14/6/2017	Revisi Bab III	

6.	21/6/2017	Revisi Bab III	
7	22/6/2017	Revisi Bab III	
8	3/7/2017	Bab III ACC Bab IV Revisi	
9.	5/7/2017	Bab IV ACC	
10	10/7/2017	Bab V ACC	

Mengetahui,
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LEMBAR KONSULTASI BIMBINGAN LAPORAN AKHIR

Nama Anggota : **Akbar Prawira**
NIM : **061430701459**
Jurusan : **Teknik Komputer**
Judul Laporan Akhir : **RANCANG BANGUN SISTEM KEAMANAN PINTU PADA RUANG SERVER MENGGUNAKAN *FINGERPRINT* BERBASIS MIKROKONROLER**

Dosen Pembimbing II*) : **Hartati Deviana, S.T.,M.Kom.**

No.	Tanggal Konsultasi	Uraian Konsultasi	Paraf Pembimbing
1.	31-05-2017	Bab I, Bab II } Revisi	
2.	7-06-2017	Bab I, Bab II } Revisi	
3.	8-06-2017	Bab II, Lanjutkan Bab I, Revisi (Latar Belakang)	
4.	9-06-2017	Bab I, lanjutkan	

5.	12-06-2017	Bab III, Flowchart, Diagram Blog	
6.	13-06-2017	Bab III, Flowchart Diagram Blog	
7	14-06-2017	Bab III, lanjutkan	
8.	19-06-2017	Bab IV, tambahkan Pengujian	
9.	20-06-2017	Bab IV, lanjutkan	
10	5-07-2017	Bab V, Selesai	

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