

Smart Home

Presentation

Presented by **Kelompok 6**

Anggota Kelompok 6

Naya Aghista

202332075

M. Kivlan Kusuma B

202332128

Marisa Yanuari S

202332099

Moch Wirangga S

202332134

Ade Nafila

202332115

Nixon Timothy L

202332152

Tugas Anggota Kelompok

Ade Nafila

Pimpinan Proyek

M. Kivlan Kusuma B

Marisa Yanuari S

Design

Naya Aghista

Moch Wirangga S

Nixon Timothy L

Programing
dan
Mechanical

SUMBER DATA

- **JEMURAN OTOMATIS**

PERANCANGAN SMART HOME JEMURAN OTOMATIS BERBASIS INTERNET OF THINGS

<https://ejurnal.unma.ac.id/index.php/infotech/article/view/5344>

- **PINTU OTOMATIS & SISTEM KEAMANAN**

SISTEM PINTU CERDAS MENGGUNAKAN SENSOR ULTRASONIC BERBASIS INTERNET OF THINGS

<https://pdfs.semanticscholar.org/dd5e/de4d4bleef68fa5762bb766d80c92ab63b09.pdf>

- **JAM REALTIME DAN MENDETEKSI KEBAKARAN**

RANCANG BANGUN SISTEM PEMADAM KEBAKARAN BERBASIS INTERNET OF THINGS

<https://journal.umg.ac.id/index.php/e-link/article/view/2956>

PEMAPARAN KONSEP

"Konsep Otomatisasi Rumah yang Cerdas, Aman, dan Nyaman"

Smart Home memanfaatkan sensor dan aktuator untuk otomatisasi rumah. Proyek kami fokus pada jemuran otomatis, pintu pintar, dan deteksi kebakaran.

1. Jemuran Otomatis

- **Sensor & Aktuator:** Rain Sensor dan Servo Motor

2. Pintu Otomatis & Sistem Keamanan

- **Sensor & Aktuator:**

Ultrasonic Distance Sensor, Keypad4x6, Servo Motor, LED Hijau, dan LED Merah

3. Jam Realtime dan Mendeteksi Kebakaran

- **Sensor & Aktuator:**

Gas Sensor MQ-2, RTC(RealTimeClock), DHT 22, Buzzer, dan LCD I2C



Rancangan

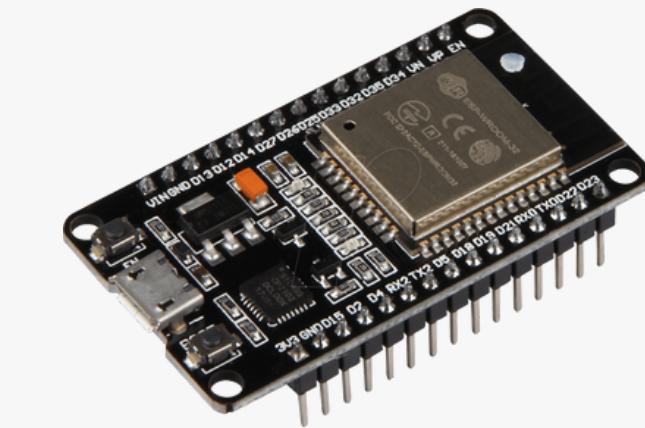
Anggaran Belanja



Sensor Ultrasonik
Rp 10.000



Sensor Gas
Rp 18.000



ESP32
Rp 64.500



Servo Motor
Rp 18.000



LCD 16x2 i2C
Rp 35.000



Rain Sensor
Rp 10.000



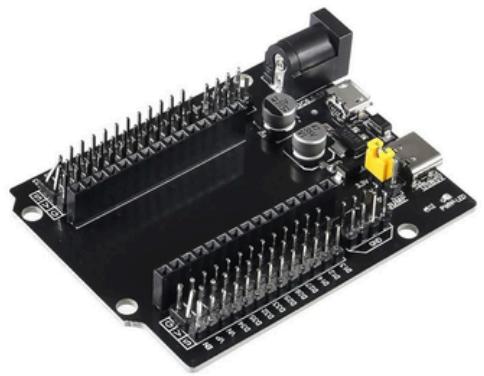
LED
Rp 3.000



Buzzer
Rp 2.000

Rancangan

Anggaran Belanja



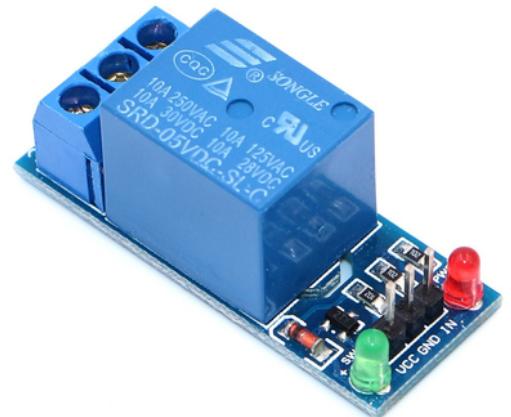
Base Board ESP32
Rp 21.500



DHT 22
Rp 35.000



Modul RTC
Rp 24.500



Relay 5V 1 Channel
Rp 8.000

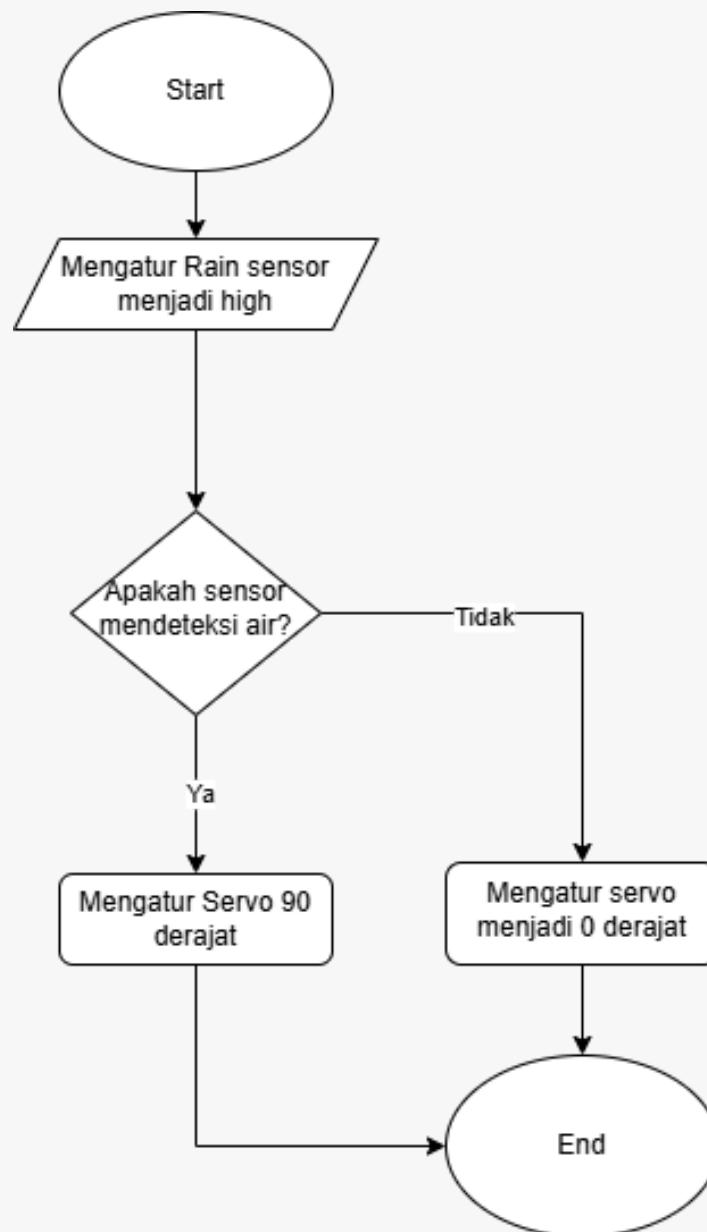


Resistor
Rp 2.000

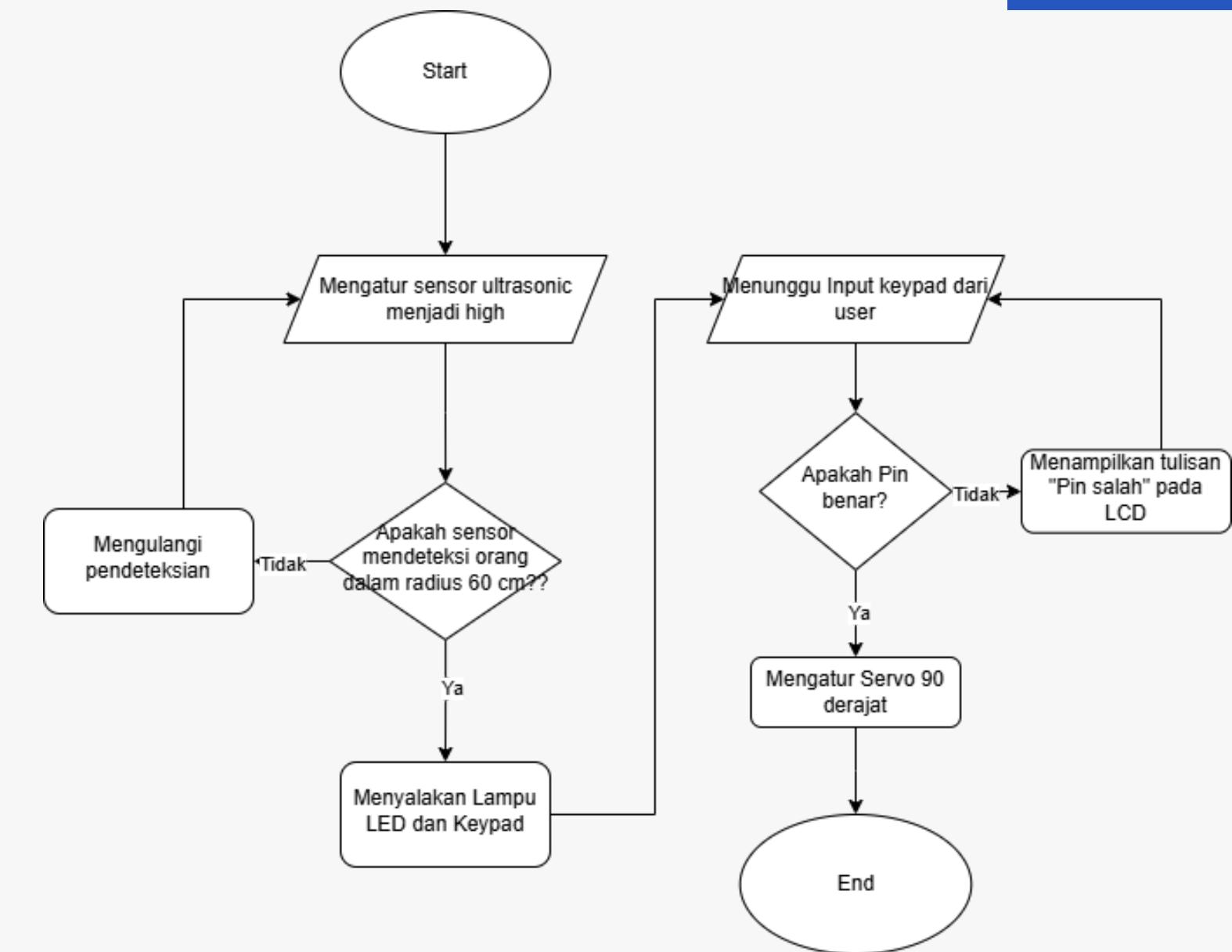


Keypad
Rp 7.500

FLOWCHART



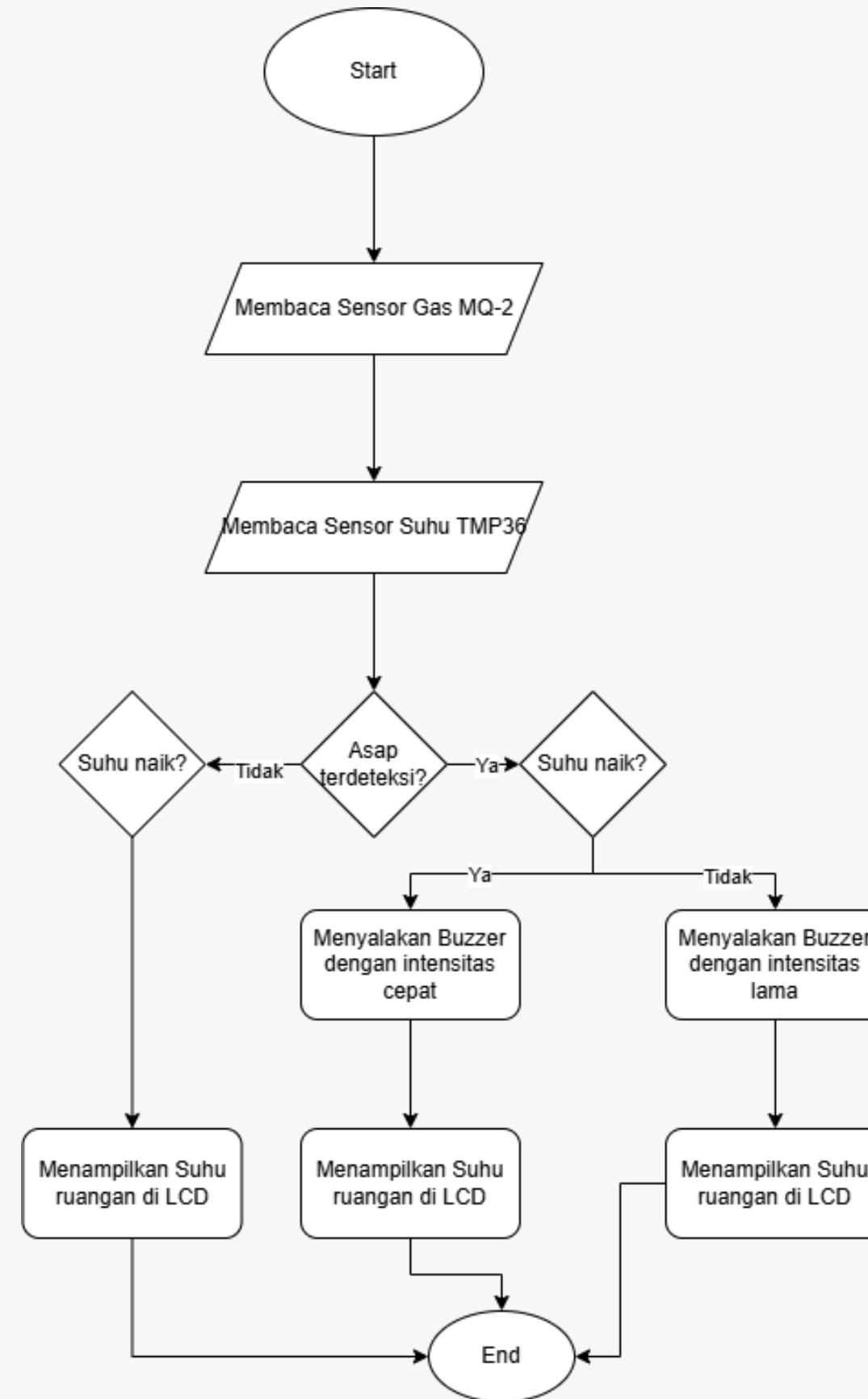
Pendeteksi Hujan



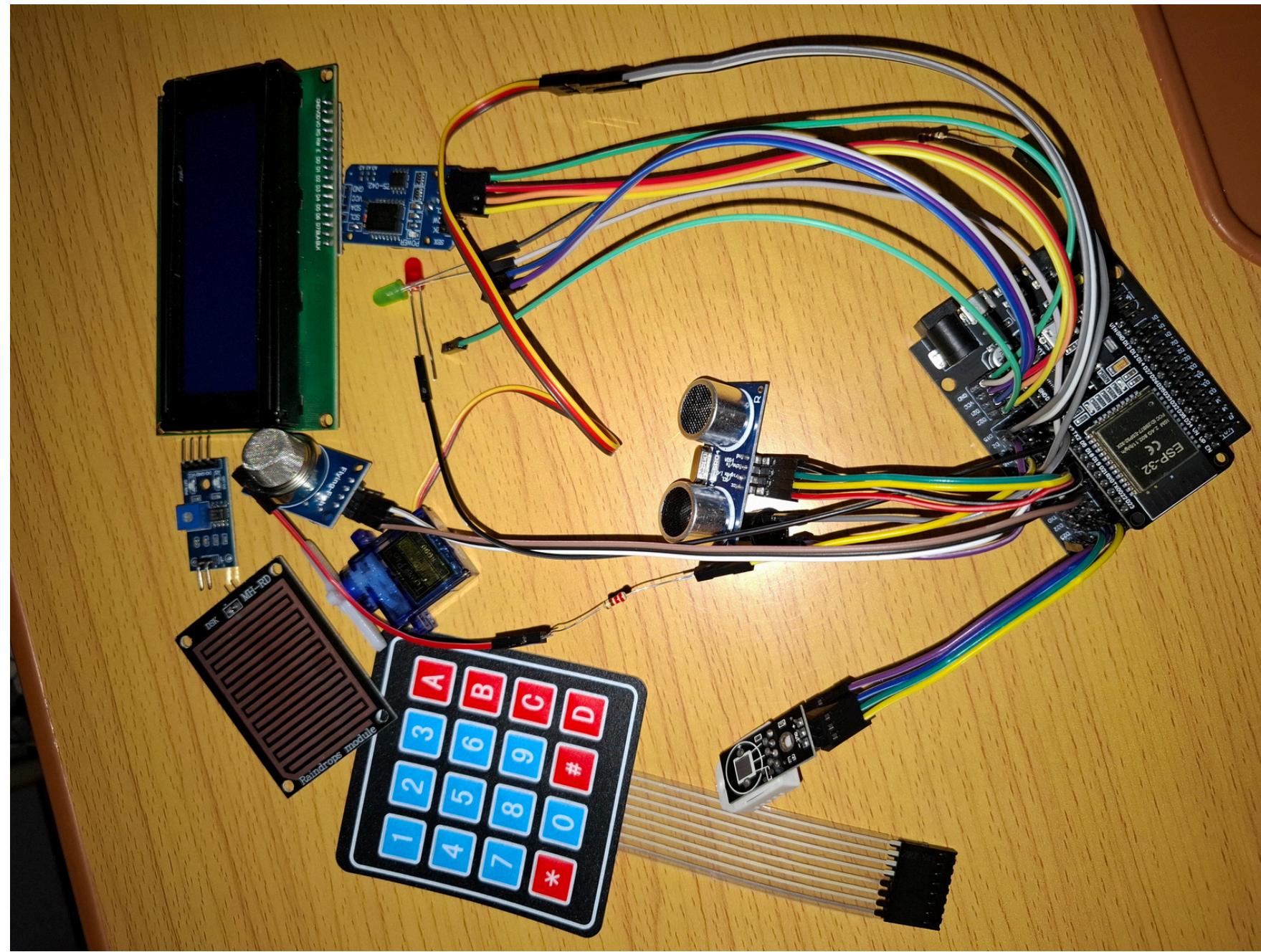
Pintu otomatis dan Sistem Keamanan

FLOW CHART

Pendeteksi
Kebakaran



GAMBAR RANGKAIAN



GAMBAR RUMAH



Thank You
So Much!

Kelompok 6