

# LAPORAN PRAKTIKUM INTERNET OF THINGS (IoT)

Fakultas Vokasi, Universitas Brawijaya

## **Praktik Pembuatan Akun Wokwi dan Github**

> (Font: Times New Roman, Bold, 14pt, Centered)

Contoh: Praktik Pembuatan Akun Wokwi dan Github

## **Najwa Firdaus Azkiyah**

> (Font: Times New Roman, 12pt, Centered, Italicized)

Contoh:

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## **Abstract (Abstrak)**

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Tuliskan ringkasan eksperimen yang dilakukan, hasil utama, dan kesimpulan singkat.

Contoh:

> This experiment aims to analyze the implementation of the MQTT protocol in a smart home IoT system. The system consists of temperature sensors and actuators controlled via an ESP8266 microcontroller. The results show that MQTT-based communication is more efficient in terms of latency and power consumption compared to HTTP-based communication.

Keywords—Internet of Things, MQTT, Smart Home, ESP8266 (maksimal 5 kata kunci, font 10pt, italic)

## **1. Introduction (Pendahuluan)**

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### **1.1 Latar belakang praktikum IoT yang dilakukan**

### **1.2 Tujuan eksperimen**

## **2. Methodology (Metodologi)**

### **2.1 Tools & Materials (Alat dan Bahan)**

> Mikrokontroler (ESP8266, Arduino, Raspberry Pi, dll.), sensor (DHT11, PIR, dsb.), software (Arduino IDE, MQTT Broker, dsb.)

### **2.2 Implementation Steps (Langkah Implementasi)**

> Langkah-langkah dalam menyusun sistem, pengkodean, dan pengujian

## **3. Results and Discussion (Hasil dan Pembahasan)**

### **3.1 Experimental Results (Hasil Eksperimen)**

> Data yang diperoleh (bisa dalam bentuk tabel, grafik, atau gambar/screenshoot)

## **4. Appendix (Lampiran, jika diperlukan)**

> Kode program, diagram skematik, dokumentasi tambahan

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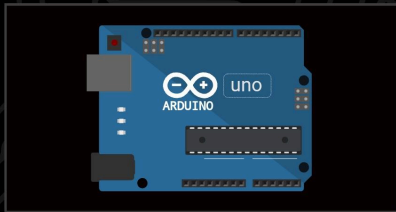


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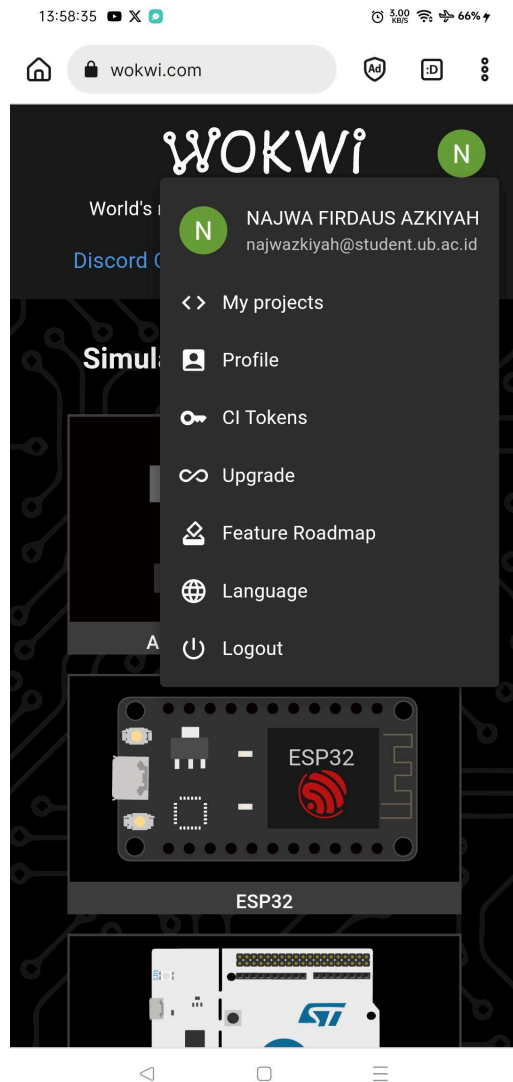


Arduino (Uno, Mega, Nano)

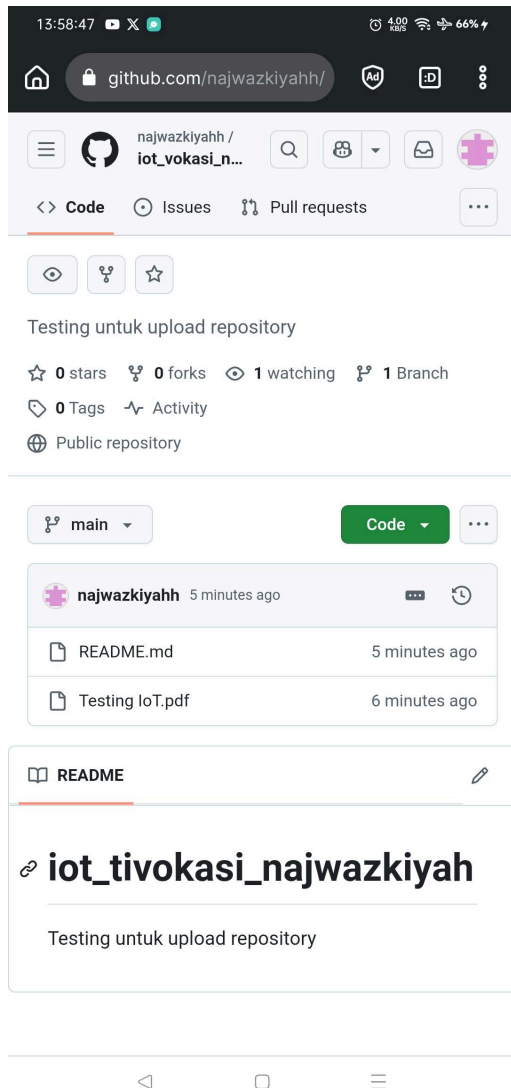


ESP32

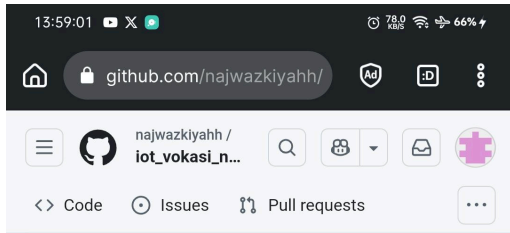




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## Commits

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Commits on Feb 10, 2025

**Update README.md**  
Verified  
najwazkiyahh authored 6 minutes ago

**Add files via upload**  
Verified  
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**Initial commit**  
Verified  
najwazkiyahh authored 12 minutes ago