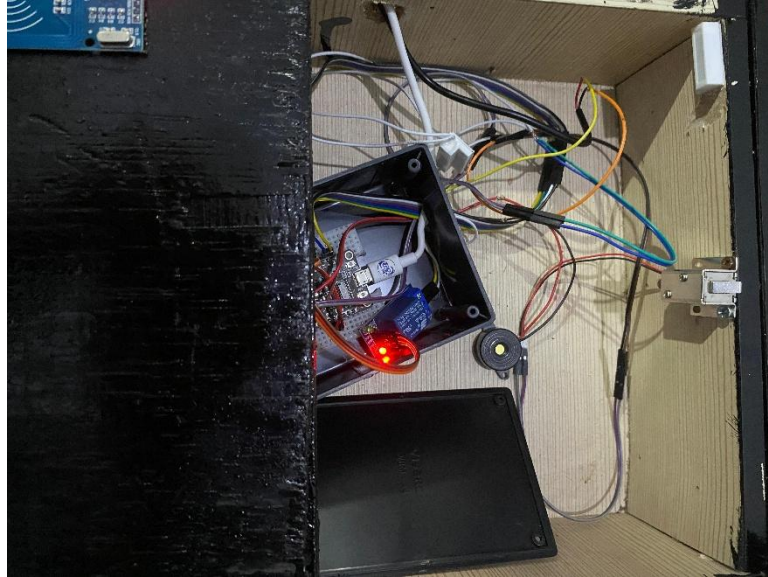


LAMPIRAN

Dokumentasi Penelitian



Perancangan *Internet of Things* (IoT)



Code Program Cash Drawer Arduino

```
sketch_aug27a | Arduino IDE 2.3.8
File Edit Sketch Tools Help

Select Board

sketch_aug27a.ino
1 #include <ESP8266WiFi.h>
2 #include <ESP8266HTTPClient.h>
3 #include <WiFiClientSecureBearSSL.h>
4 #include <SPI.h>
5 #include <MFRC522.h>
6
7 // =====
8 // KONFIGURASI WIFI
9 // =====
10 const char* WIFI_SSID = "ABC";
11 const char* WIFI_PASSWORD = "abc12345";
12
13 const char* API_URL = "https://cash-drawer-security-api.vercel.app/api/events";
14 const char* DEVICE_API_KEY = "59d1bc306bf826f8834db3b953aa64ab788125c5bf6fbd4bd8e8895d47a56310";
15 const int DEVICE_ID = 1;
16
17 #define RFID_SS_PIN 15
18 #define RFID_RST_PIN 0
19
20 #define RELAY_PIN 5
21 #define BUZZER_PIN 16
22 #define MAGNETIC_SWITCH_PIN 4
23
24 // Ubah menjadi true jika relay aktif LOW.
25 const bool RELAY_ACTIVE_LOW = true;
26
27 // Ubah menjadi false jika magnetic switch belum dipasang.
28 const bool USE_MAGNETIC_SWITCH = true;
```

```
sketch_aug27a.ino
30 // Durasi relay membuka kunci laci.
31 const unsigned long UNLOCK_DURATION_MS = 5000UL;
32
33 // Jeda pengiriman peringatan pembukaan paksa.
34 const unsigned long FORCED_OPEN_COOLDOWN_MS = 15000UL;
35
36 MFRC522 rfid(RFID_SS_PIN, RFID_RST_PIN);
37
38 // =====
39 // UID RFID YANG DIIZINKAN
40 // =====
41 String AUTHORIZED_UIDS[] = {
42   "1643DC06"
43 };
44
45 const int AUTHORIZED_UID_COUNT =
46   sizeof(AUTHORIZED_UIDS) / sizeof(AUTHORIZED_UIDS[0]);
47
48 unsigned long lastAuthorizedOpenAt = 0;
49 unsigned long lastForcedOpenSentAt = 0;
50
51 bool drawerUnlocked = false;
52
53 // =====
54 // DEKLARASI FUNGSI
55 // =====
56 void connectWifi();
57 void readRfidCard();
```