Open API

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01

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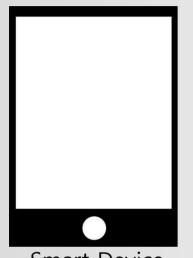
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01. 상세 일정

구분	단계	내용	비고
UUID	1	bluetooth 장치의 UUID를 군집화	
	2	bluetooth connect LIB	0
ADD	3	bluetooth list LIB	Δ
APP	4	wifi connect LIB	0
	5	wifi list LIB	Δ
UNO	6	bluetooth connect	
UNO	7	wifi connect	
WEB	8	Log print	

02

최 종 목 적



Smart Device

- 1. Bluetooth_connect
- 2. Bluetooth_list
- 3. WIFI_connect
- 4. WIFI_list
- 5. WEB_connect
- + Module_search
- + Voice_record_cmd
- + SNS_share



WEB SERVER

- 1. LOG_time
- + Module_list





IoT Platform

- 1. Bluetooth_connect
- 2. WIFI_connect
- 3. wire_PIN
- + LED_controll
- + Voice_record

Home Automation 02. 최종 목적

function

Bluetooth_connect

Bluetooth_list

WIFI_connect

WIFI_list

WEB_connect

LOG_time

Module_search

Voice_record_cmd

SNS_share

Module_list

LED_controll

Voice_record

Action

App과 IoT의 bluetooth 연결 요청

Device에 연결된 bluetooth 장비 목록 읽기

App과 IoT의 WIFI 연결 요청

Device에 연결 가능한 WIFI 목록 읽기

App 실행시 Web 연결

시간형식에 맞는 log data 읽기

Bluetooth와 wifi로 연결된 Module 탐색

녹음 기능 및 녹음 명령 전송

SNS 공유기능

APP 에 연결된 Module을 WEB에 출력

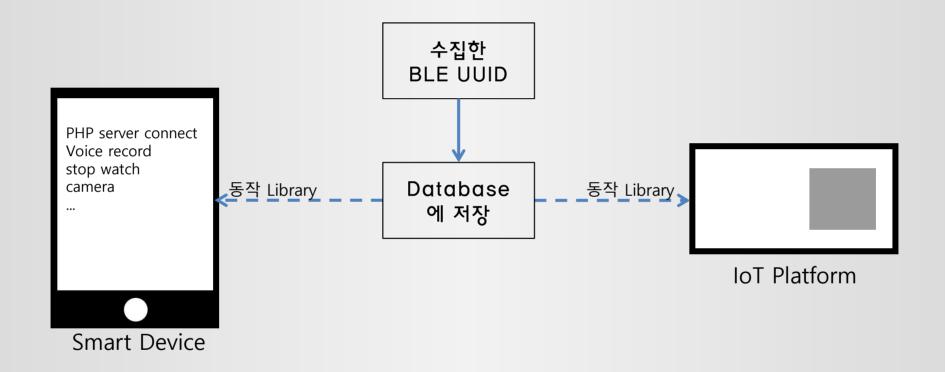
LED 제어

녹음 기능

03

UUID Data Collect

Home Automation 03. UUID Data Collect



→ 수집한 UUID를 기반으로 UUID.fromString("---"); 으로 기능 동작

Home Automation 03. UUID Data Collect

안드로이드 BLE UUID data

BrowseGroupDescriptorServiceClassID	00001001-0000-1000-8000-00805F9B34FB
PublicBrowseGroupServiceClass	00001002-0000-1000-8000-00805F9B34FB
SerialPortServiceClass	00001101-0000-1000-8000-00805F9B34FB
LANAccessUsingPPPServiceClass	00001102-0000-1000-8000-00805F9B34FB
DialupNetworkingServiceClass	00001103-0000-1000-8000-00805F9B34FB
IrMCSyncServiceClass	00001104-0000-1000-8000-00805F9B34FB
OBEXObjectPushServiceClass	00001105-0000-1000-8000-00805F9B34FB
OBEXFileTransferServiceClass	00001106-0000-1000-8000-00805F9B34FB
IrMCSyncCommandServiceClass	00001107-0000-1000-8000-00805F9B34FB
HeadsetServiceClass	00001108-0000-1000-8000-00805F9B34FB
CordlessTelephonyServiceClass	00001109-0000-1000-8000-00805F9B34FB
AudioSourceServiceClass	0000110A-0000-1000-8000-00805F9B34FB
AudioSinkServiceClass	0000110B-0000-1000-8000-00805F9B34FB

```
public static class Basic {
    public static UUID service = UUID.fromString("0000fee0-0000-1000-8000-00805f9b34fb");
    public static UUID batteryCharacteristic = UUID.fromString("00000006-0000-3512-2118-0009af100700");
}

public static class AlertNotification {
    public static UUID service = UUID.fromString("00001802-0000-1000-8000-00805f9b34fb");
    public static UUID alertCharacteristic = UUID.fromString("00002a06-0000-1000-8000-00805f9b34fb");
}

public static class HeartRate {
    public static UUID service = UUID.fromString("0000180d-0000-1000-8000-00805f9b34fb");
    public static UUID measurementCharacteristic = UUID.fromString("00002a037-0000-1000-8000-00805f9b34fb");
    public static UUID descriptor = UUID.fromString("00002a039-0000-1000-8000-00805f9b34fb");
}

public static class Information {
    public static class Information {
        public static UUID service = UUID.fromString("00006e0-0000-1000-8000-00805f9b34fb");
        public static UUID service = UUID.fromString("00006e0-0000-1000-8000-00805f9b34fb");
        public static UUID service = UUID.fromString("00000e000-1000-8000-00805f9b34fb");
        public static UUID descriptor = UUID.fromString("000000007-0000-3512-2118-0009af100700");
        public static UUID descriptor = UUID.fromString("000002902-0000-1000-8000-00805f9b34fb");
}
```