

Open API

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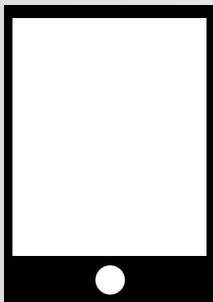
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	Bluetooth API clustering					
22	23	24	25 APP connect	26	27	28
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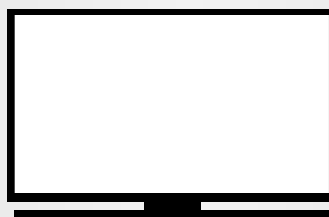
Home Automation							01. 상세 일정
5	6	7	8	9	10	11	
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12	13	14	15	16	17	18	
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			connect(~9/3)				
26	27	28	29	30	31	9/1	
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Home Automation							01. 상세 일정
구분	단계	내용				비고	
UUID	1	bluetooth 장치의 UUID를 수집화				△	
APP	2	bluetooth connect LIB				○	
	3	bluetooth list LIB				△	
	4	wifi connect LIB				○	
	5	wifi list LIB				△	
UNO	6	bluetooth connect				△	
	7	wifi connect					
WEB	8	Log print				△	



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

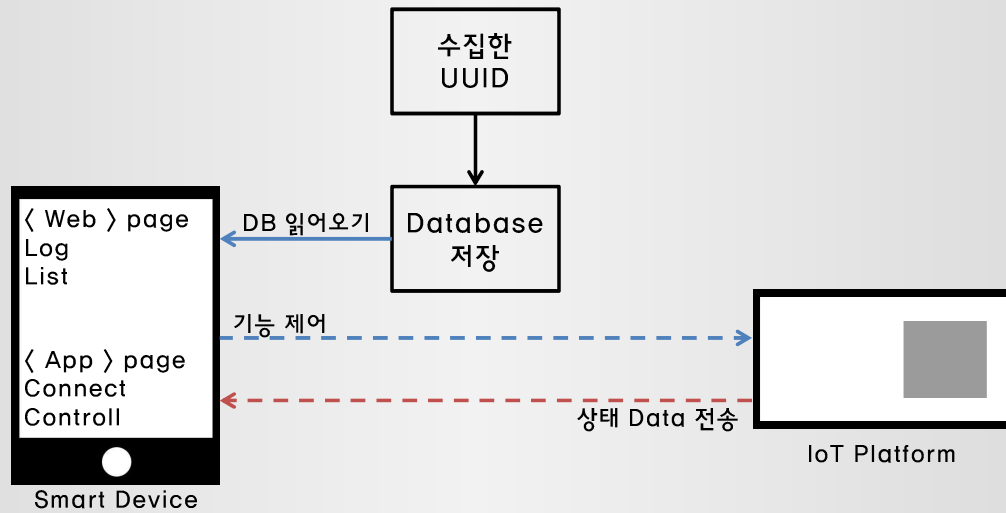


IoT Platform

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

» 편리한 개발 환경

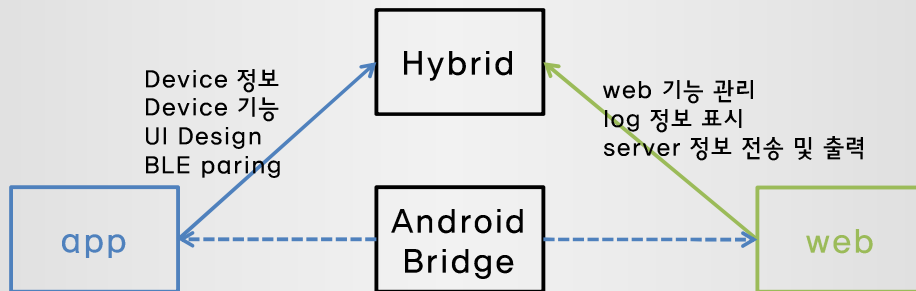
function	Action
Bluetooth_connect	App과 IoT의 bluetooth 연결 요청
Bluetooth_list	Device에 연결된 bluetooth 장비 목록 읽기
WIFI_connect	App과 IoT의 WIFI 연결 요청
WIFI_list	Device에 연결 가능한 WIFI 목록 읽기
WEB_connect	App 실행시 Web 연결
LOG_time	시간형식에 맞는 log data 읽기
Module_search	Bluetooth와 wifi로 연결된 Module 탐색
Voice_record_cmd	녹음 기능 및 녹음 명령 전송
SNS_share	SNS 공유기능
Module_list	APP 에 연결된 Module을 WEB에 출력
LED_controll	LED 제어
Voice_record	녹음 기능



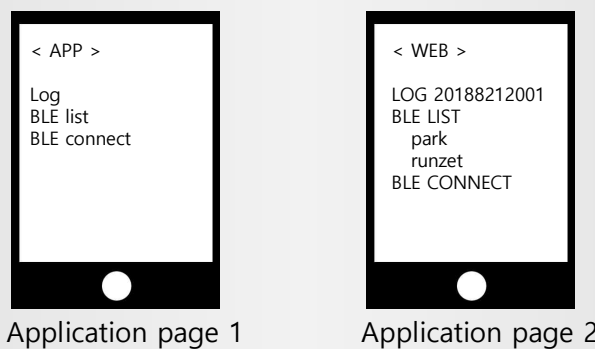
➤ 수집한 UUID를 기반으로 WebApp을 통해 IoT Controll

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12



➤ Android Bridge class 를 통해 app과 web의 데이터 교환



➤ App 하나만으로 web 기능을 사용, 관리 가능

UUID collect

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

```

12 public static class Basic {
13     public static UUID service = UUID.fromString("0000fee0-0000-1000-8000-00805f9b34fb");
14     public static UUID batteryCharacteristic = UUID.fromString("00000000-0000-3512-2118-0009af100700");
15 }
16
17 public static class AlertNotification {
18     public static UUID service = UUID.fromString("00001802-0000-1000-8000-00805f9b34fb");
19     public static UUID alertCharacteristic = UUID.fromString("00002a06-0000-1000-8000-00805f9b34fb");
20 }
21
22 public static class HeartRate {
23     public static UUID service = UUID.fromString("0000180d-0000-1000-8000-00805f9b34fb");
24     public static UUID measurementCharacteristic = UUID.fromString("00002a37-0000-1000-8000-00805f9b34fb");
25     public static UUID descriptor = UUID.fromString("00002902-0000-1000-8000-00805f9b34fb");
26     public static UUID controlCharacteristic = UUID.fromString("00002a39-0000-1000-8000-00805f9b34fb");
27 }
28
29 public static class Information {
30     public static UUID service = UUID.fromString("0000fee0-0000-1000-8000-00805f9b34fb");
31     public static UUID Characteristic = UUID.fromString("00000007-0000-3512-2118-0009af100700");
32     public static UUID descriptor = UUID.fromString("00002902-0000-1000-8000-00805f9b34fb");
33 }
34

```