

## 智慧居家安全系統

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## 壹、主旨

本企劃整合三個月所學，更深入了解如何應用所學知識，做出一個可使用的系統。其目的是為了增進自助上班族與租屋族家居的便利性與安全性，期望能將該企劃之所學應用於未來的工作與學業上。

## 貳、目標

將Arduino與後端Python連結，存儲資料並分析，再將結果傳送至手機端顯示。達成能以手機實現房間內的多樣功能操作。

## 參、工作範圍與內容

### 一、應用端

- 1.溫溼度感測
- 2.播放音樂
- 3.分貝儀
- 4.人體感測
- 5.示警

### 二、手機端

- 1.會員系統&裝置設定
- 2.即時數據
- 3.歷史圖表顯示
- 4.語音輸入&按鈕操控介面

### 三、後端

- 1.資料存儲
- 2.數據分析
- 3.示警介面+推播

### 四、整合

### 五、成果報告

## 肆、工作項目與時程



## 伍、團隊

賴宏哲:手機APP開發

王稚鈇:後端Python開發

莊鎮榕、張皓程:Arduino開發

## 陸、預算

新台幣貳千元整

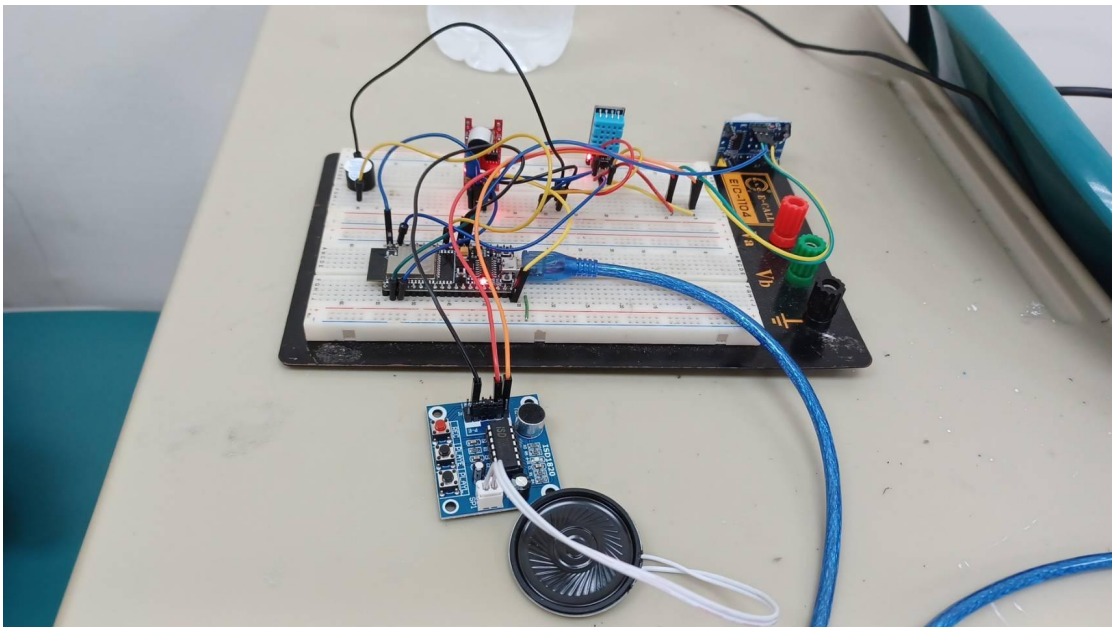
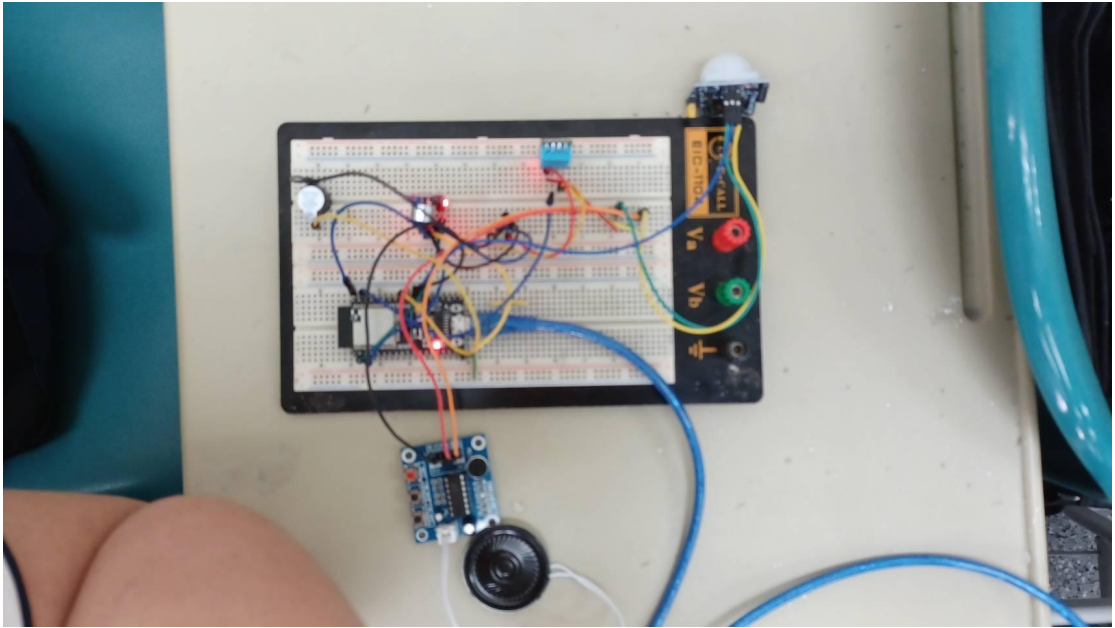
## 柒、預期效果

能做到偵測房間內溫溼度、分貝，並可以透過手機操控房間內音響，偵測到非允許人員進入時播放音效示警。

## 捌、實際支出

皆課程所提供材料無實際花費

## 玖、實際效果



```

49.217.202.82 - - [22/Sep/2022 05:52:15] "POST /sensor/addData HTTP/1.1" 200 -
163.17.133.148 - - [22/Sep/2022 05:52:19] "POST /sensor/getRealData HTTP/1.1" 200 -
49.217.202.82 - - [22/Sep/2022 05:52:31] "POST /sensor/addData HTTP/1.1" 200 -
163.17.133.148 - - [22/Sep/2022 05:52:39] "POST /sensor/getRealData HTTP/1.1" 200 -
49.217.202.82 - - [22/Sep/2022 05:52:48] "POST /sensor/addData HTTP/1.1" 200 -
163.17.133.148 - - [22/Sep/2022 05:52:59] "POST /sensor/getRealData HTTP/1.1" 200 -
49.217.202.82 - - [22/Sep/2022 05:53:04] "POST /sensor/addData HTTP/1.1" 200 -
163.17.133.148 - - [22/Sep/2022 05:53:19] "POST /sensor/getRealData HTTP/1.1" 200 -
49.217.202.82 - - [22/Sep/2022 05:53:19] "POST /sensor/addData HTTP/1.1" 200 -
49.217.202.82 - - [22/Sep/2022 05:53:35] "POST /sensor/addData HTTP/1.1" 200 -
163.17.133.148 - - [22/Sep/2022 05:53:39] "POST /sensor/getRealData HTTP/1.1" 200 -
49.217.202.82 - - [22/Sep/2022 05:53:52] "POST /sensor/addData HTTP/1.1" 200 -
163.17.133.148 - - [22/Sep/2022 05:53:59] "POST /sensor/getRealData HTTP/1.1" 200 -
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163.17.133.148 - - [22/Sep/2022 05:54:19] "POST /sensor/getRealData HTTP/1.1" 200 -
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163.17.133.148 - - [22/Sep/2022 05:55:59] "POST /sensor/getRealData HTTP/1.1" 200 -
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```

LIE

SIGN IN

SIGN UP

Account

Password

SIGN IN

Forget Password?

LIE

SIGN IN

SIGN UP

Username

E-mail

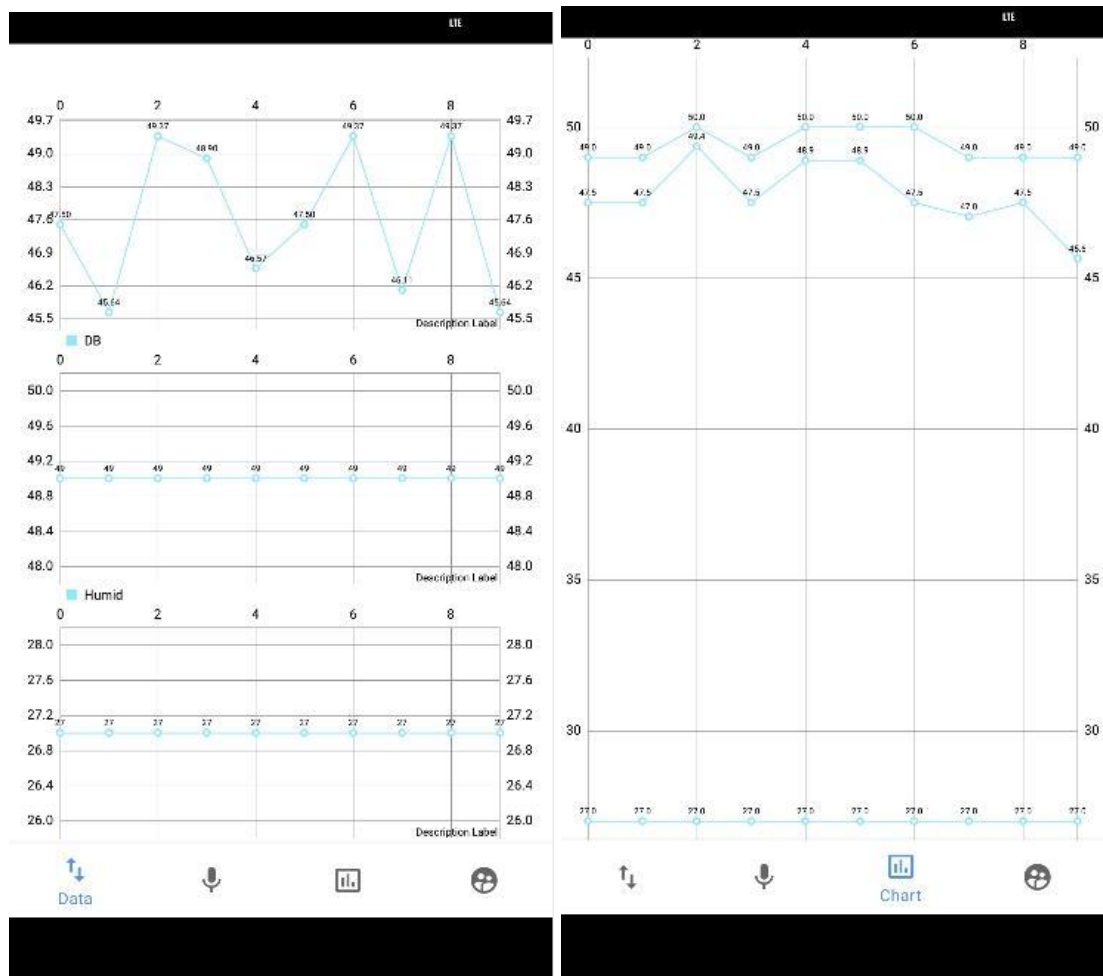
Account

Password

Password

☐ I am not a robot.

SIGN UP



## 拾、未來發展

可做到電燈操控、門禁管控、示警及截圖入侵者影像並即時傳送至手機端通知使用者或是傳送至LINE BOT。