

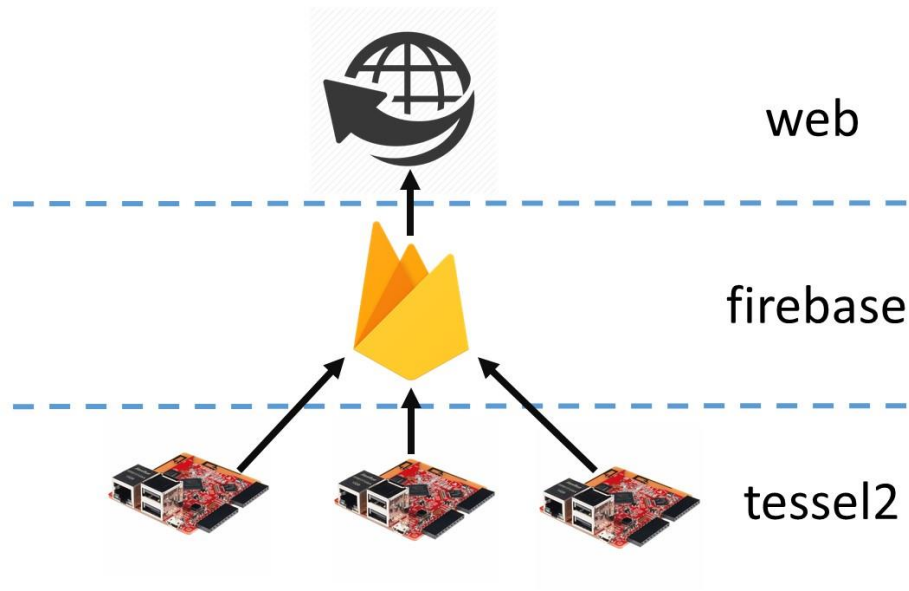
Lab2-Tessel

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Github Repo: <https://github.com/jason841226/ESLab2>

系統架構：



程式碼說明：

Client(ambient.js)

紀錄 sensor 所得到的聲光等級，顯示紀錄於畫面

同時將資料傳送到資料庫

```

C:\WINDOWS\system32\cmd.exe - t2 run ambient.js...
WARN Try to npm install --force the affected module, then rerun your deployment command.
WARN 3. The binary may be platform specific and impossible to compile for OpenWRT.
INFO Writing project to RAM on DoGoodThing (152.576 kB)...
INFO Deployed.
INFO Running ambient.js...
(node:2303) DeprecationWarning: pin.rawWrite is deprecated. Use .high() or .low()
Light level: 0.04589844 Sound Level: 0.01660156
Light level: 0.04492188 Sound Level: 0.01562500
Light level: 0.04394531 Sound Level: 0.01757813
Light level: 0.04296875 Sound Level: 0.01562500
Light level: 0.04101563 Sound Level: 0.01367188
Light level: 0.04199219 Sound Level: 0.01562500
Light level: 0.04101563 Sound Level: 0.01855469
Light level: 0.04394531 Sound Level: 0.01562500
Light level: 0.04101563 Sound Level: 0.01562500
Light level: 0.04199219 Sound Level: 0.01367188
Light level: 0.04394531 Sound Level: 0.02148438
Light level: 0.04394531 Sound Level: 0.01953125
Light level: 0.04296875 Sound Level: 0.01953125
Light level: 0.04394531 Sound Level: 0.01660156
Light level: 0.04394531 Sound Level: 0.01660156
Light level: 0.04394531 Sound Level: 0.01562500
Light level: 0.04394531 Sound Level: 0.01855469
Light level: 0.04394531 Sound Level: 0.01757813
Light level: 0.04101563 Sound Level: 0.01562500
Light level: 0.04199219 Sound Level: 0.01660156
Light level: 0.04296875 Sound Level: 0.01562500
Light level: 0.04199219 Sound Level: 0.01953125
Light level: 0.04199219 Sound Level: 0.01562500
Light level: 0.04199219 Sound Level: 0.01562500

```

Web

擷取資料庫並顯示最新資料於網頁。

Light level Sound level

0.04589844 0.01660156

TEST

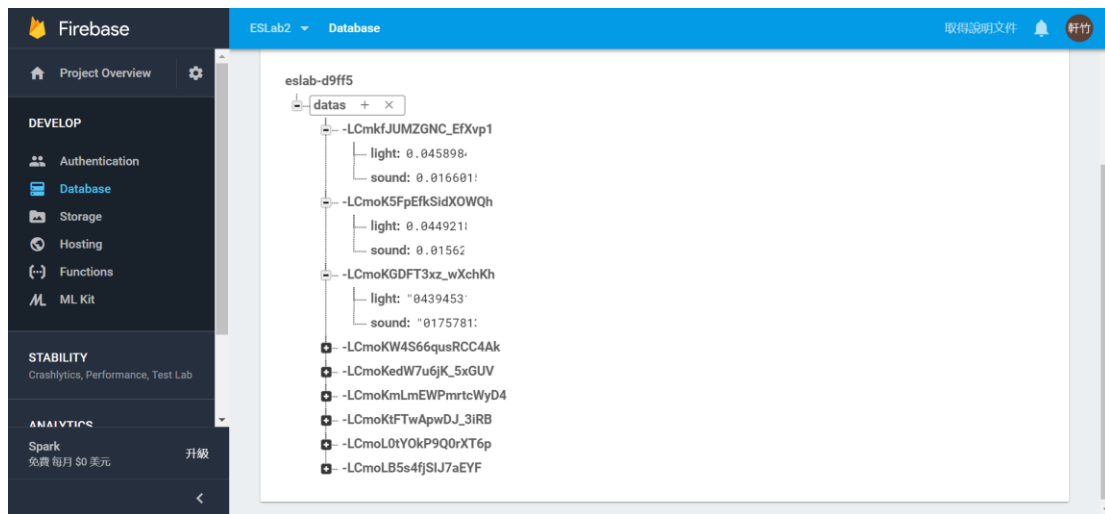
Web

如果接收到的聲音強度大於設定值，則會顯示提示圖片



Database

以 Google Firebase 接收並紀錄從 Tessel 2 傳來的資料



系統功能：

1. 實時更新最新資料
2. 記錄過去測量資料

未來改進方向：

1. 增加其他聲光元件如喇叭，做為更明顯的提示
2. 增加定時製圖功能(如時/日/周平均)，以增加資料可讀性