**REALTIME** 

HEALTH MEASUREMENTS



Health Cloud is an app that uses the apple watch for detecting real-time heart rate, heart rate variability, oxyhemoglobin saturation.

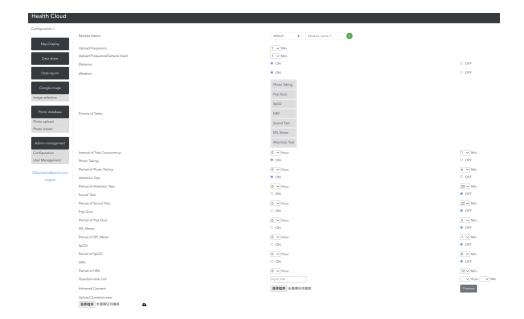
Data collecting from HC app include the coordinate, weather, real-time psychological and physiological data of the specific location. The tool supports HEALS Design step 5.

### **Definable parameters:**

- Project name: module/field
- Task (optional): choose and set pop up task interval time (/minute)
  - Pop quiz (short questionnaire which can be rated by one to five stars)
  - Stroop test
  - Photo taking
  - Sound Db testing

#### **Output:**

- Data info: date/time/module/field/test ID
- Location info: longitude/latitude/elevation
- Whether info: temperature/humidity/wind speed/wind degree
- Physiological info: heart rate (HR), heart rate variability (HRV), oxyhemo globin saturation by pulse oximetry (SpO2)
- Task result: pop quiz score/ Stroop score/ photos/ sound Db



## **Multiple Tasks**





Take the test with the smartphone



#### **SPL Test**

Measure the sound decibels of the environment with the smartphone



### **Image Capture**

Take photos of the environment with the smartphone



# **Background Information**

#### Time and Date



#### Weather

Temperature, Humidity, Wind speed, Wind direction

#### **GPS Location**

Latitude, longitude, altitude, GPS track

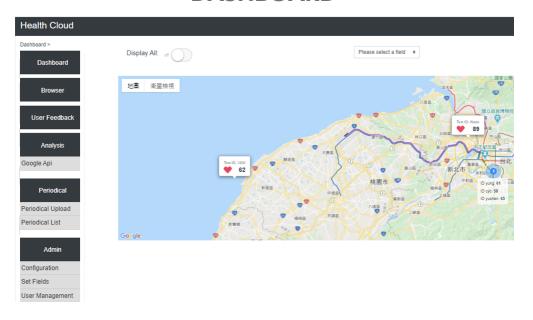
#### **Heart Rate**

Average heartbeat per minute

#### **Image Comparison**

Predict health benefits

#### **DASHBOARD**



#### **BROWSER**

