

This repository ▾ Search or type a command ⓘ

Explore Gist Blog Help


 ks111777   

IC  lydian / CMUSensorNetwork

Unwatch ▾

★ Star 0

Fork 1

branch: master ▾ CMUSensorNetwork / README.md  Yuan Ren 21 hours ago added sql\_query API to execute a SQL query

1 contributor

 file | 62 lines (50 sloc) | 3,063 kb

Edit Raw Blame History Delete



# CMU Sensor Service Platform

## Service URL:

<http://cmu-sensor-network.herokuapp.com>

## Usage:

Note: all TimeStamps are in Unix epoch time format to millisecond

- **Add sensor readings**
  - **Method:** POST
  - **URL:** <http://cmu-sensor-network.herokuapp.com/sensors>
  - **Data:** {"id": <"device id in string">, "timestamp": <"timestamp in int">, <"sensor type in string">: <"sensor value in double">}
  - Note: more than one sensor type:sensor value pairs can be included in the json.
  - **Example:** Post this json-formatted reading data to the URL - {"id": "test", "timestamp": 1373566898000, "temp": 123}
  - **Result:** saved
- **Get all devices**
  - **Method:** GET
  - **URL (return csv format):** [http://cmu-sensor-network.herokuapp.com/get\\_devices](http://cmu-sensor-network.herokuapp.com/get_devices)
  - **URL (return json format):** [http://cmu-sensor-network.herokuapp.com/get\\_devices/json](http://cmu-sensor-network.herokuapp.com/get_devices/json)
  - **Sample result (in csv):**  
uri,device\_type,device\_agent,device\_location  
10170202,Firefly\_v3,SensorAndrew2,B23.216  
(uri is the device id)
  - **Sample result (in json):**  
{ "device\_type": "Firefly\_v3", "device\_location": "B23.216", "device\_agent": "SensorAndrew2", "uri": "10170202" }
- **Get sensor readings at a specific time**
  - **Method:** GET
  - **URL (return csv format):** [http://cmu-sensor-network.herokuapp.com/sensors/<"DeviceID">/<"TimeStampValue">/<"SensorTypeValue">](http://cmu-sensor-network.herokuapp.com/sensors/<)

- **URL (return json format):** [http://cmu-sensor-network.herokuapp.com/sensors/<"DeviceID">/<"TimeStamp">/<"SensorType">/json](http://cmu-sensor-network.herokuapp.com/sensors/<)
  - **Sample request:** <http://cmu-sensor-network.herokuapp.com/sensors/10170102/1368568896000/temp>  
("temp" stands for temperature sensor)
  - **Sample result:** 10170102,1368568896000,temp,518.0
- **Get sensor readings in a time range**
    - **Method:** GET
    - **URL (return csv format):** [http://cmu-sensor-network.herokuapp.com/sensors/<"DeviceID">/<"StartTime">/<"EndTime">/<"SensorType">](http://cmu-sensor-network.herokuapp.com/sensors/<)
    - **URL (return json format):** [http://cmu-sensor-network.herokuapp.com/sensors/<"DeviceID">/<"StartTime">/<"EndTime">/<"SensorType">/json](http://cmu-sensor-network.herokuapp.com/sensors/<)
    - **Sample request:** <http://cmu-sensor-network.herokuapp.com/sensors/10170102/1368568896000/1368568996000/temp>
    - **Sample result:**  
10170102,1368568993000,temp,517.0  
...  
10170102,1368568896000,temp,518.0
- **Get the last readings before a specific time from all devices**
    - **Method:** GET
    - **URL(return csv format):** [http://cmu-sensor-network.herokuapp.com/last\\_readings\\_from\\_all\\_devices/<"TimeStamp">/<"sensorType">](http://cmu-sensor-network.herokuapp.com/last_readings_from_all_devices/<)
    - **URL(return json format):** [http://cmu-sensor-network.herokuapp.com/last\\_readings\\_from\\_all\\_devices/<"TimeStamp">/<"sensorType">/json](http://cmu-sensor-network.herokuapp.com/last_readings_from_all_devices/<)
    - **Sample request:** [http://cmu-sensor-network.herokuapp.com/last\\_readings\\_from\\_all\\_devices/1368568896000/temp](http://cmu-sensor-network.herokuapp.com/last_readings_from_all_devices/1368568896000/temp)
    - **Sample result:**  
10170203,1368568896000,temp,513.0  
...  
10170204,1368568889000,temp,513.0

