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Yuan Ren 21 hours ago added sql\_query API to execute a SQL query

1 contributor



file | 62 lines (50 sloc) | 3.063 kb

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# 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

