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
  - **URL (return json format)**: 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">
  - **URL (return json format)**: http://cmu-sensor-network.herokuapp.com/sensors/<"DeviceID">/<"TimeStamp">/<"SensorType">/json
  - **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">

- **URL (return json format)**: http://cmu-sensor-network.herokuapp.com/sensors/<"DeviceID">/<"StartTime">/<"EndTime">/<"SensorType">/json
- **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">
  - **URL(return json format)**: http://cmu-sensor-network.herokuapp.com/last_readings_from_all_devices/<"TimeStamp">/<"sensorType">/json
  - **Sample request**: 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