

## Develop a python script

Team ID	PNT2022TMID01873
Project Name	Smart waste management system for metropolitan cities

## SPRIT 3 SCREEN SHOTS FOR SIMULATOR

```
published distance = 40 loadcell:8 lon = 78.135731 lat = 10.930091
0 %
Risk warning:40 %
alert :No need to collect right now
Mirusanilapur, Karur
published distance = 40 loadcell:8 lon = 78.135731 lat = 10.930091
0 %
Risk warning:40 %
alert :No need to collect right now
Mirusanilapur, Karur
published distance = 16 loadcell:14 lon = 78.135731 lat = 10.930091
0 %
Risk warning:12 %
alert :No need to collect right now
Mirusanilapur, Karur
published distance = 15 loadcell:14 lon = 78.135731 lat = 10.930091
0 %
Risk warning:12 %
alert :No need to collect right now
Mirusanilapur, Karur
published distance = 35 loadcell:12 lon = 78.135731 lat = 10.930091
0 %
Risk warning:dampster is above 60%
alert :No need to collect right now
Mirusanilapur, Karur
published distance = 35 loadcell:12 lon = 78.135731 lat = 10.930091
0 %
Risk warning:dampster is above 60%
alert :No need to collect right now

2022-11-14 10:42:51.187 - Idm4t4.Device.Client - INFO - Connected successfully: d:\4pbc\BIN\IDM4T4
Karur, Karur
published distance = 24 loadcell:10 lon = 78.135731 lat = 10.930091
0 %
Risk warning:dampster is above 60%
alert :No need to collect right now
Karur, Karur
published distance = 24 loadcell:10 lon = 78.135731 lat = 10.930091
0 %
Risk warning:dampster is above 60%
alert :No need to collect right now

published distance = 55 loadcell:11 lon = 78.135731 lat = 10.930091
0 %
Risk warning:40 %
alert :No need to collect right now
Pullyar, Karur
published distance = 55 loadcell:11 lon = 78.135731 lat = 10.930091
0 %
Risk warning:40 %
alert :No need to collect right now
Pullyar, Karur
published distance = 21 loadcell:11 lon = 78.135731 lat = 10.930091
0 %
Risk warning:dampster is above 60%
alert :No need to collect right now
Pullyar, Karur
published distance = 31 loadcell:11 lon = 78.135731 lat = 10.930091
0 %
Risk warning:dampster is above 60%
alert :No need to collect right now
Pullyar, Karur
published distance = 41 loadcell:13 lon = 78.135731 lat = 10.930091
0 %
Risk warning:40 %
alert :No need to collect right now
Pullyar, Karur
published distance = 41 loadcell:13 lon = 78.135731 lat = 10.930091
0 %
Risk warning:40 %
alert :No need to collect right now
```

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Back

Device Drilldown - BIN1ID

Recent Events

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value
IoT Sensor	{ "id": "42", "read": 12 }
IoT Sensor	{ "type": "Buffer", "data": [ 34, 97, 108, 101, 114, 116, 119 ] }

State

This table shows a list of data points that are reported by this device.

Download Data File | No Data Available

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Device Drilldown - BIN2ID

Recent Events

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value
IoT Sensor	{ "id": "50", "read": 12 }
IoT Sensor	{ "type": "Buffer", "data": [ 34, 97, 108, 101, 114, 116, 119 ] }

State

This table shows a list of data points that are reported by this device.

Download Data File | No Data Available

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Device Drilldown - BIN3ID

Recent Events

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value
IoT Sensor	{ "id": "42", "read": 12 }
IoT Sensor	{ "type": "Buffer", "data": [ 34, 97, 108, 101, 114, 116, 119 ] }
IoT Sensor	{ "id": "36", "read": 14 }
IoT Sensor	{ "type": "Buffer", "data": [ 34, 97, 108, 101, 114, 116, 119 ] }
IoT Sensor	{ "id": "37", "read": 10 }

State

This table shows a list of data points that are reported by this device.

Download Data File | No Data Available

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Device Drilldown - BIN4ID

Recent Events

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value
IoT Sensor	{ "id": "42", "read": 12 }
IoT Sensor	{ "type": "Buffer", "data": [ 34, 97, 108, 101, 114, 116, 119 ] }
IoT Sensor	{ "id": "45", "read": 8 }
IoT Sensor	{ "type": "Buffer", "data": [ 34, 97, 108, 101, 114, 116, 119 ] }

State

This table shows a list of data points that are reported by this device.

Download Data File | No Data Available

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Device Drilldown - BIN5ID

Recent Events

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value
IoT Sensor	{ "id": "34", "read": 12 }
IoT Sensor	{ "type": "Buffer", "data": [ 34, 97, 108, 101, 114, 116, 119 ] }
IoT Sensor	{ "id": "45", "read": 8 }
IoT Sensor	{ "type": "Buffer", "data": [ 34, 97, 108, 101, 114, 116, 119 ] }

State

This table shows a list of data points that are reported by this device.

Download Data File | No Data Available

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Device Drilldown - BIN6ID

Recent Events

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value
IoT Sensor	{ "id": "34", "read": 12 }
IoT Sensor	{ "type": "Buffer", "data": [ 34, 97, 108, 101, 114, 116, 119 ] }
IoT Sensor	{ "id": "45", "read": 8 }
IoT Sensor	{ "type": "Buffer", "data": [ 34, 97, 108, 101, 114, 116, 119 ] }

State

This table shows a list of data points that are reported by this device.

Download Data File | No Data Available

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https://4yi0vc.internetofthings.ibmcloud.com/dashboard/devices/browse

920219104302@smartinternz.com ID: 4yi0vc

Browse Action Device Types Interfaces

Assignment4

Disconnected

nodeMcu

Device

2022 07:20 12

920219104302@smartinter

BIN11ID

BIN21D

BIN31D

Identity

The recent event

Event

IoTSensor

IoTSensor

IoTSensor

IoTSensor

IoTSensor

BIN41D

Connected

BIN4

Device

12 Nov 2022 10:32

920219104302@smartinter

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https://4yi0vc.internetofthings.ibmcloud.com/dashboard/devices/browse

920219104302@smartinternz.com ID: 4yi0vc

Browse Action Device Types Interfaces

Assignment4

Disconnected

nodeMcu

Device

23 Oct 2022 07:20 12

920219104302@smartinter

BIN11ID

BIN21D

BIN31D

Identity

The recent event

Event

IoTSensor

IoTSensor

IoTSensor

IoTSensor

IoTSensor

BIN41D

Connected

BIN4

Device

12 Nov 2022 10:32

920219104302@smartinter

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Node-RED Dashboard

http://127.0.0.1:1880/ui/#/1?socketid=-1er0USDnGjRDUhAAAB

control

Distance 1

LOAD CELL 1

Distance 2

LOAD CELL 2

Distance 3

LOAD CELL 3

Distance 4

LOAD CELL 4

0

0

10

8

27

15

61

9

Items per page 50 | 1-6 of 5 items

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Links 27°C Cloudy ENG 18:45

Node-RED interface showing a flow with four parallel processing paths (Flow 1, Flow 2, Flow 3, Flow 4) connected to a single output node.

**Flow 1:** Starts with a `GET /1` node, branching into `Distance 1` and `LOAD cell 1`, both leading to `msg.payload`.

**Flow 2:** Starts with a `GET /sensor` node, branching into `Distance 2` and `LOAD cell 2`, both leading to `msg.payload`.

**Flow 3:** Starts with a `GET /sensor` node, branching into `Distance 3` and `LOAD cell 3`, both leading to `msg.payload`.

**Flow 4:** Starts with a `GET /sensor` node, branching into `Distance 4` and `LOAD cell 4`, both leading to `msg.payload`.




The output node is a `msg.payload` node that receives data from all four flows.


**Debug Console:** Shows a log of messages with the following structure:

```
{ "dist": 40, "load": 11 }
```


The log includes timestamps and status messages such as "alert: No need to collect right now" and "understand".







20 %

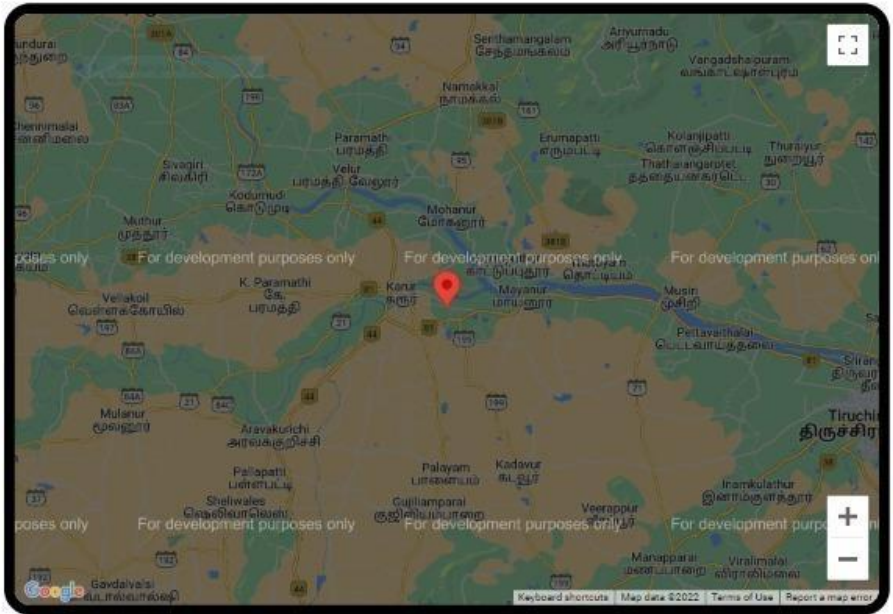


8 %

LEVEL : 60.25cm

WEIGHT : 0g

### LIVE LOCATION



No need to collect right now!

Node-RED

Garbage Management System

https://chettinad.swm5.repl.co

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Windows taskbar with icons for various applications and system status (27°C Cloudy, ENG, 18:47)