

SPRINT - 04

Date :	16 November 2022
Team ID :	PNT2022TMID37707
Project Name	SIGNS WITH SMART CONNECTIVITY FOR BETTER ROAD SAFETY

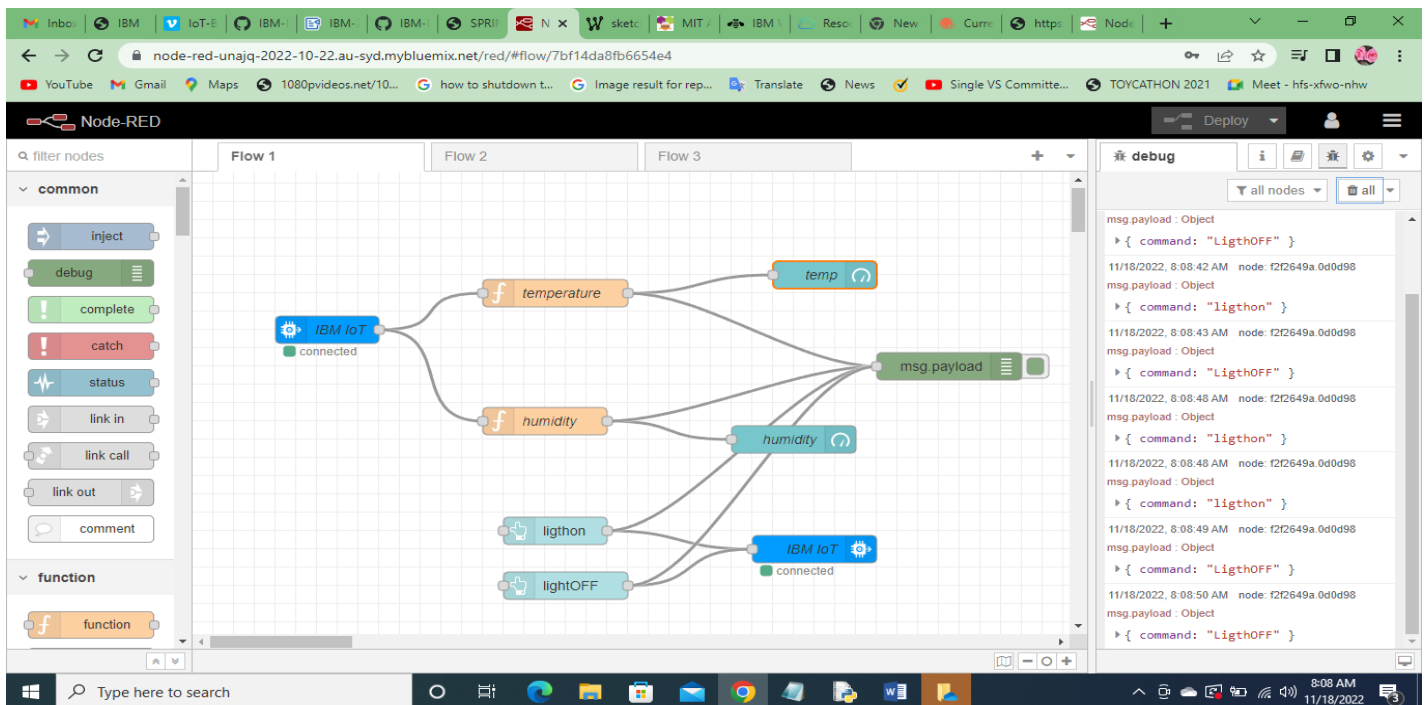
SPRINT GOAL:

Optimize all the shortcomings and provide better user experience.

Process 01:

Aim: Having a USER INTERFACE method to get the Light system in Road Safety

Platform: NODE-RED



node-red-unajq-2022-10-22.au-syd.mybluemix.net/red/#flow/7bf14da8fb6654e4

Node-RED

Flow 1

common

inject

debug

complete

catch

status

link in

link call

link out

comment

function

function

IBM IoT

connected

temp

hum

Edit ibmiot in node

Delete Cancel Done

Properties

Authentication API Key

API Key 208d113e39a8247f

Input Type Device Event

Device Type All or deepj_resheery

Device Id All or 56789

Event All or +

Format All or json

QoS 0

Name IBM IoT

Enabled

debug

msg.payload : Object

{ command: "LigthOFF" }

11/18/2022, 8:08:42 AM node: f2f2649a.0d0d98

msg.payload : Object

{ command: "lighth" }

11/18/2022, 8:08:43 AM node: f2f2649a.0d0d98

msg.payload : Object

{ command: "LigthOFF" }

11/18/2022, 8:08:48 AM node: f2f2649a.0d0d98

msg.payload : Object

{ command: "lighth" }

11/18/2022, 8:08:48 AM node: f2f2649a.0d0d98

msg.payload : Object

{ command: "lighth" }

11/18/2022, 8:08:49 AM node: f2f2649a.0d0d98

msg.payload : Object

{ command: "LigthOFF" }

11/18/2022, 8:08:50 AM node: f2f2649a.0d0d98

msg.payload : Object

{ command: "LigthOFF" }

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Node-RED

Flow 1

common

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IBM IoT

connected

temp

hum

Edit gauge node

Delete Cancel Done

Properties

Group [Lightcontrol] lightsBoards

Size auto

Type Donut

Label humidity

Value format {{value}}

Units degree celcius

Range min 0 max 50

Colour gradient

Sectors 0 181 230 50

Enabled

debug

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msg.payload : Object

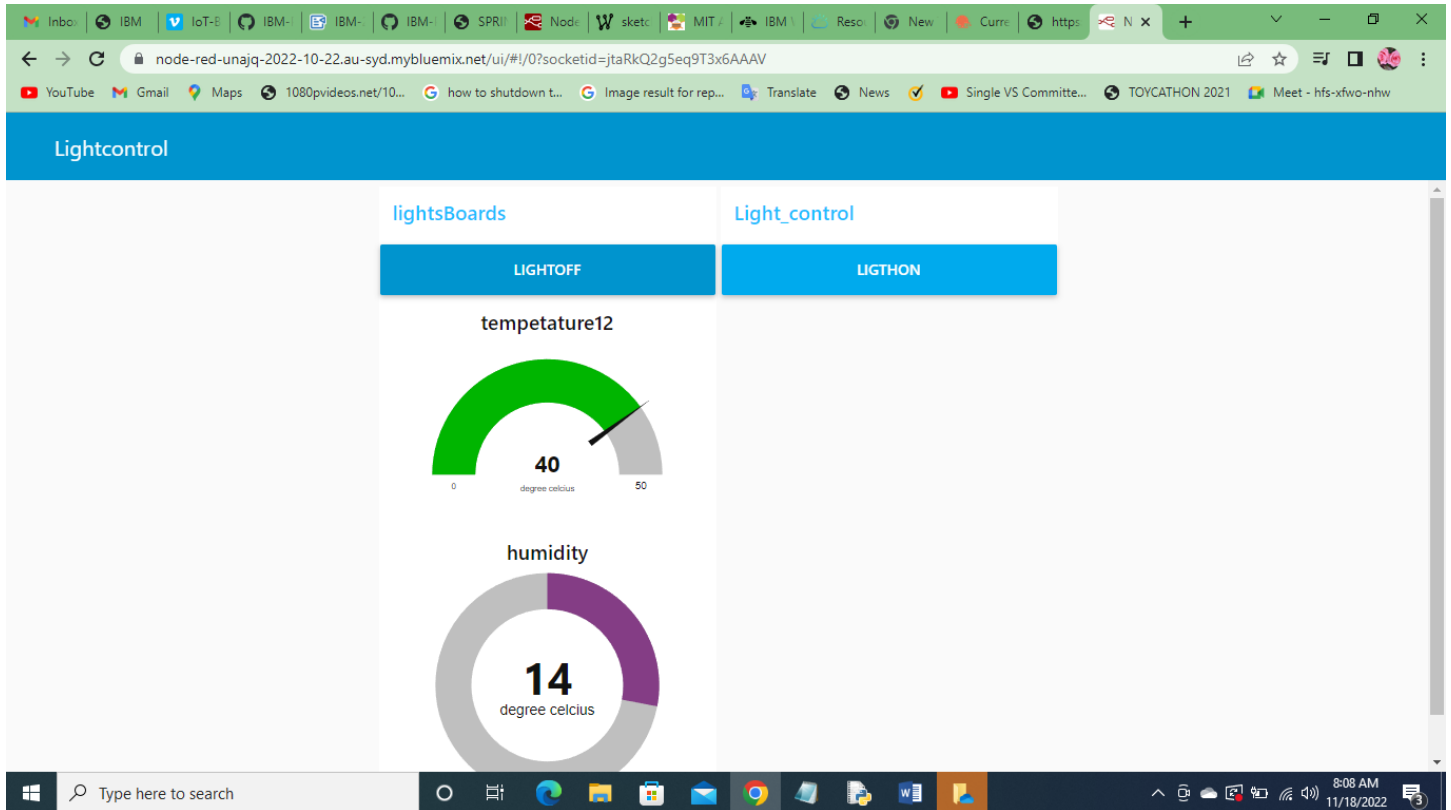
{ command: "LigthOFF" }

11/18/2022, 8:08:50 AM node: f2f2649a.0d0d98

msg.payload : Object

{ command: "LigthOFF" }

OUTPUT : User Interface (UI):



OUTPUT:

11/18/2022, 8:08:42 AMnode: f2f2649a.0d0d98msg.payload : Object

```
{ command: "ligthon" }
```

11/18/2022, 8:08:43 AMnode: f2f2649a.0d0d98msg.payload : Object

```
{ command: "LigthOFF" }
```

11/18/2022, 8:08:48 AMnode: f2f2649a.0d0d98msg.payload : Object

```
{ command: "ligthon" }
```

11/18/2022, 8:08:48 AMnode: f2f2649a.0d0d98msg.payload : Object

```
{ command: "ligthon" }
```

11/18/2022, 8:08:49 AMnode: f2f2649a.0d0d98msg.payload : Object

```
{ command: "LigthOFF" }
```

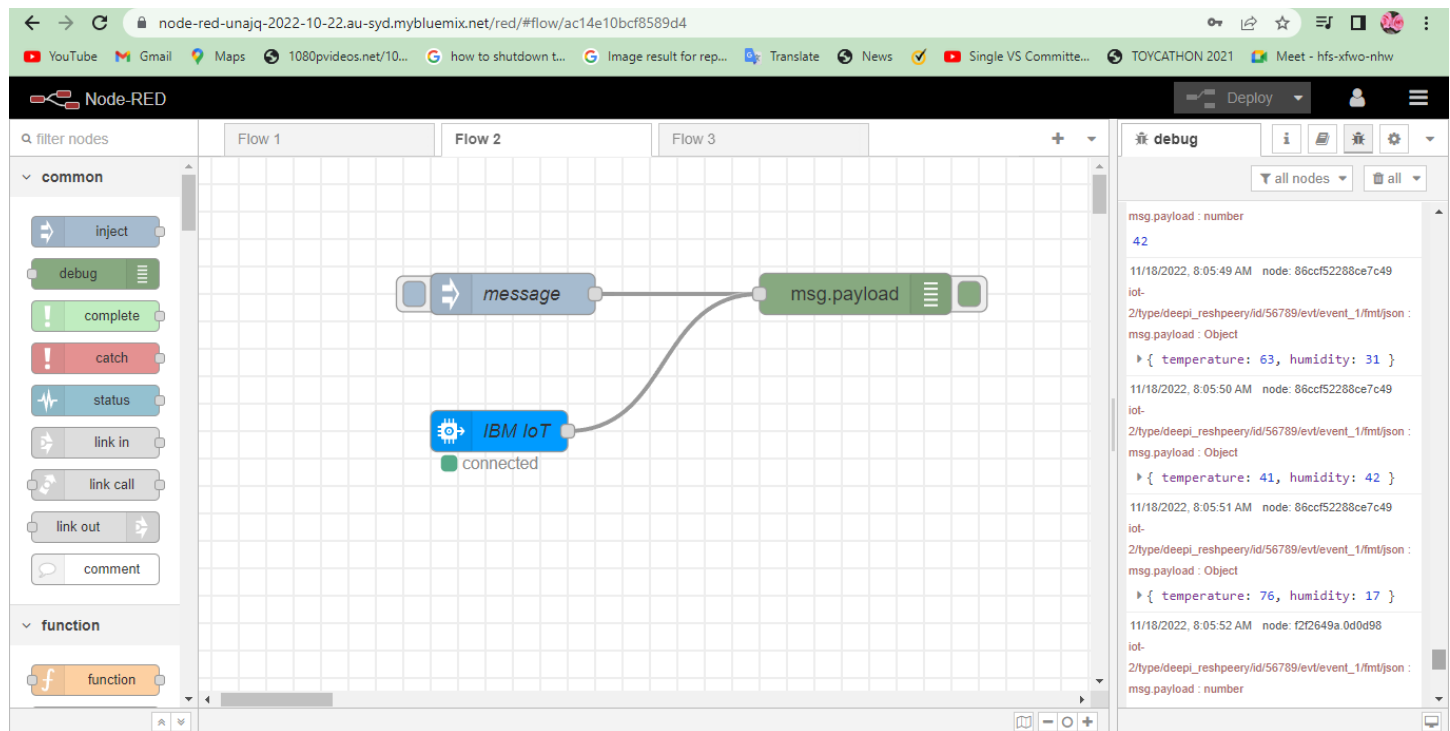
Output link;

<https://node-red-unajq-2022-10-22.au-syd.mybluemix.net/red/#flow/ac14e10bcf8589d4>

Process 02 :

Aim: Having a Temperature and Humidity in Road Safety

Platform: NODE-RED



OUTPUT :

2/type/deepi_resheery/id/56789/evt/event_1/fmt/json : msg.payload : Object

{ temperature: 63, humidity: 17 }

11/18/2022, 8:21:57 AMnode: 86ccf52288ce7c49iot-2/type/deepi_resheery/id/56789/evt/event_1/fmt/json : msg.payload : Object

{ temperature: 46, humidity: 18 }

11/18/2022, 8:21:57 AMnode: 86ccf52288ce7c49iot-2/type/deepi_resheery/id/56789/evt/event_1/fmt/json : msg.payload : Object

{ temperature: 34, humidity: 27 }

11/18/2022, 8:21:57 AMnode: 86ccf52288ce7c49iot-2/type/deepi_resheery/id/56789/evt/event_1/fmt/json : msg.payload : Object

{ temperature: 83, humidity: 18 }

11/18/2022, 8:21:57 AMnode: 86ccf52288ce7c49iot-2/type/deepi_resheery/id/56789/evt/event_1/fmt/json : msg.payload : Object

{ temperature: 97, humidity: 34 }

11/18/2022, 8:23:15 AMnode: 86ccf52288ce7c49iot-2/type/deepi_resheery/id/56789/evt/event_1/fmt/json : msg.payload : Object

{ temperature: 61, humidity: 5 }

NODE-RED to IBM cloud

IBM Watson IoT Platform

410119106009@smartinternz.com
ID: 7kb3es

Browse Action Device Types Interfaces

Add Device +

Identity Device Information **Recent Events** State Logs

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

Event	Value	Format	Last Received
event_1	{"temperature":72,"humidity":31}	json	a few seconds ago
event_1	{"temperature":91,"humidity":6}	json	a few seconds ago
event_1	{"temperature":51,"humidity":44}	json	a few seconds ago
event_1	{"temperature":51,"humidity":18}	json	a few seconds ago
event_1	{"temperature":90,"humidity":26}	json	a few seconds ago

1 Simulation running

Type here to search

LINE CHART

IBM Watson IoT Platform

410119106009@smartinternz.com
ID: 7kb3es

< final_pro

♥ + Add New Card Paste Card Settings

Line chart

100
80
60
40
20
0

07:46 07:47 07:48 07:49 07:50

5 minutes

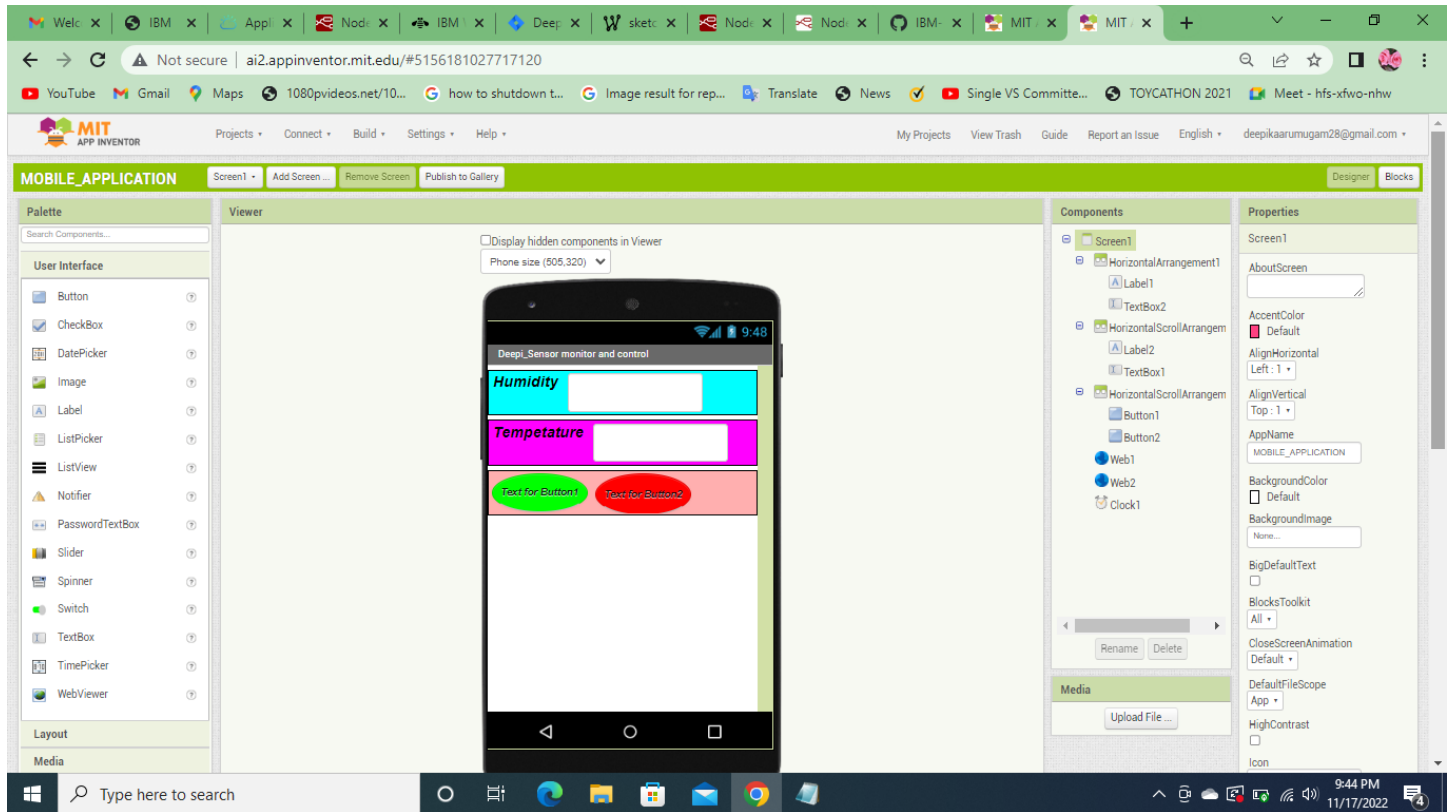
● humidity ● temperature

now

1 Simulation running

Type here to search

By the use of MIT- APP inventor



OUTPUT LINK:

<https://node-red-unajq-2022-10-22.au-syd.mybluemix.net/red/#flow/ac14e10bcf8589d4>

<https://7kb3es.internetofthings.ibmcloud.com/dashboard/devices/browse>

Conclusion:

Hence by the use of NODE_RED and the IBM cloud we set an identification of temperature and the alertness for the safety vehicle in Road Safety

THANK YOU...!!