`

SPRINT - 04

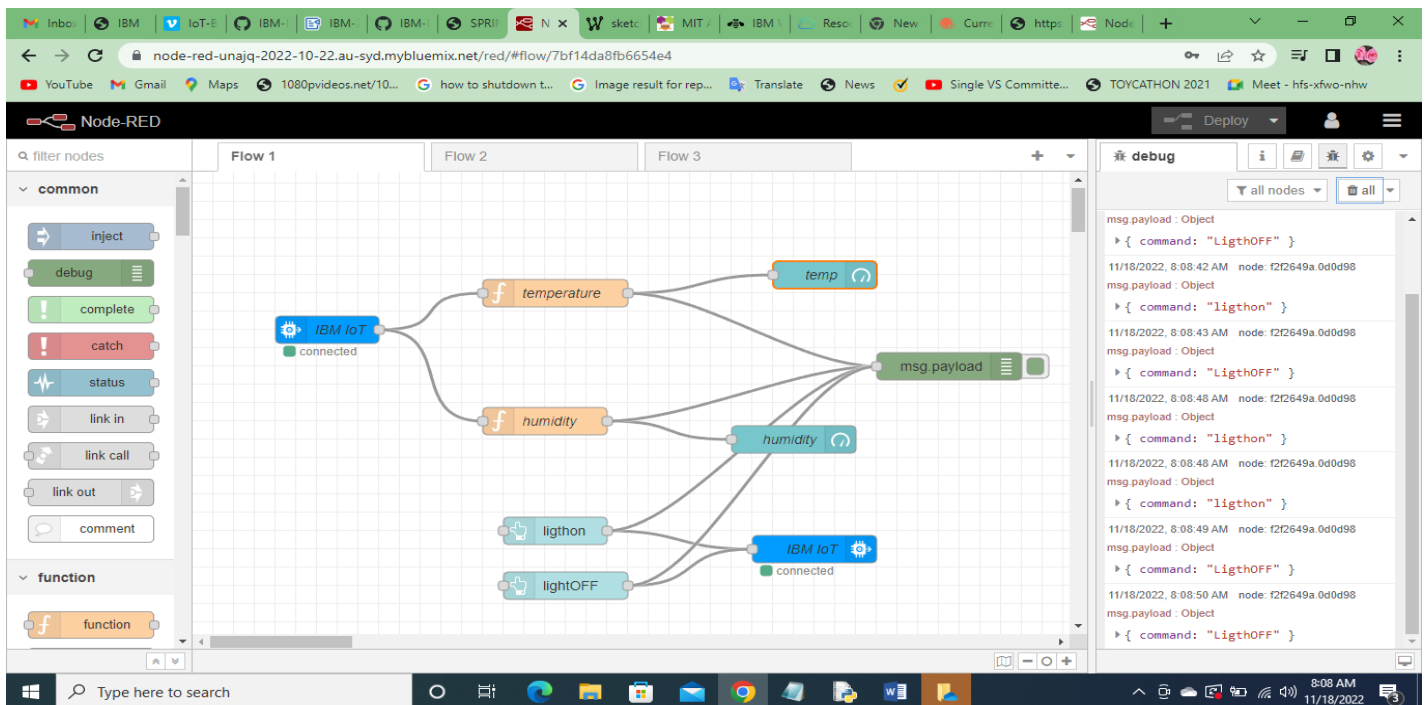| **Date** :	16 November 2022
Team ID :	PNT2022TMID37707
Project Name	SIGNS WITH SMART CONNECTIVITY FOR BETTER ROAD SAFETY

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

Edit ibmiot in node

Delete | Cancel | Done

⚙ Properties

⚙ Authentication — API Key
🔑 API Key — 208d113e39a8247f
⚙ Input Type — Device Event
🏷 Device Type — ☐ All or deepi_reshpeery
👤 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: "ligthon" }
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: "ligthon" }
11/18/2022, 8:08:48 AM node: f2f2649a.0d0d98
msg.payload : Object
▸ { command: "ligthon" }
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" }

Edit gauge node

Delete | Cancel | Done

⚙ Properties

⊞ Group — [Lightcontrol] lightsBoards
◲ Size — auto
☰ Type — Donut
I Label — humidity
I Value format — {{value}}
I Units — degree celcius
Range — min 0 max 50
Colour gradient
Sectors — 0 ... 181 ... 230 ... 50

○ Enabled

debug

msg.payload : Object
▸ { command: "LigthOFF" }
11/18/2022, 8:08:42 AM node: f2f2649a.0d0d98
msg.payload : Object
▸ { command: "ligthon" }
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: "ligthon" }
11/18/2022, 8:08:48 AM node: f2f2649a.0d0d98
msg.payload : Object
▸ { command: "ligthon" }
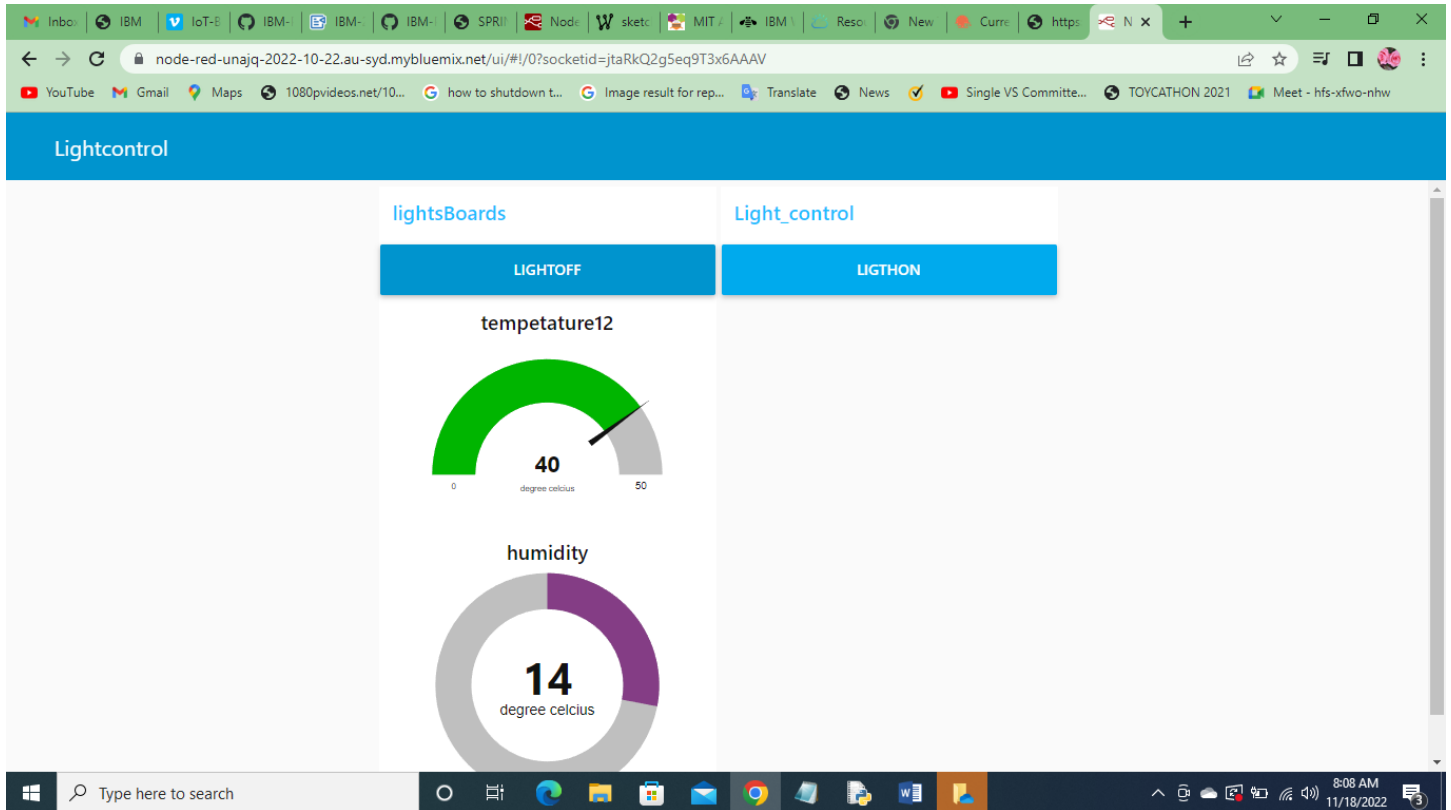11/18/2022, 8:08:49 AM node: f2f2649a.0d0d98
msg.payload : Object
▸ { command: "LigthOFF" }
11/18/2022, 8:08:50 AM node: f2f2649a.0d0d98
msg.payload : Object
▸ { command: "LigthOFF" }

`

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
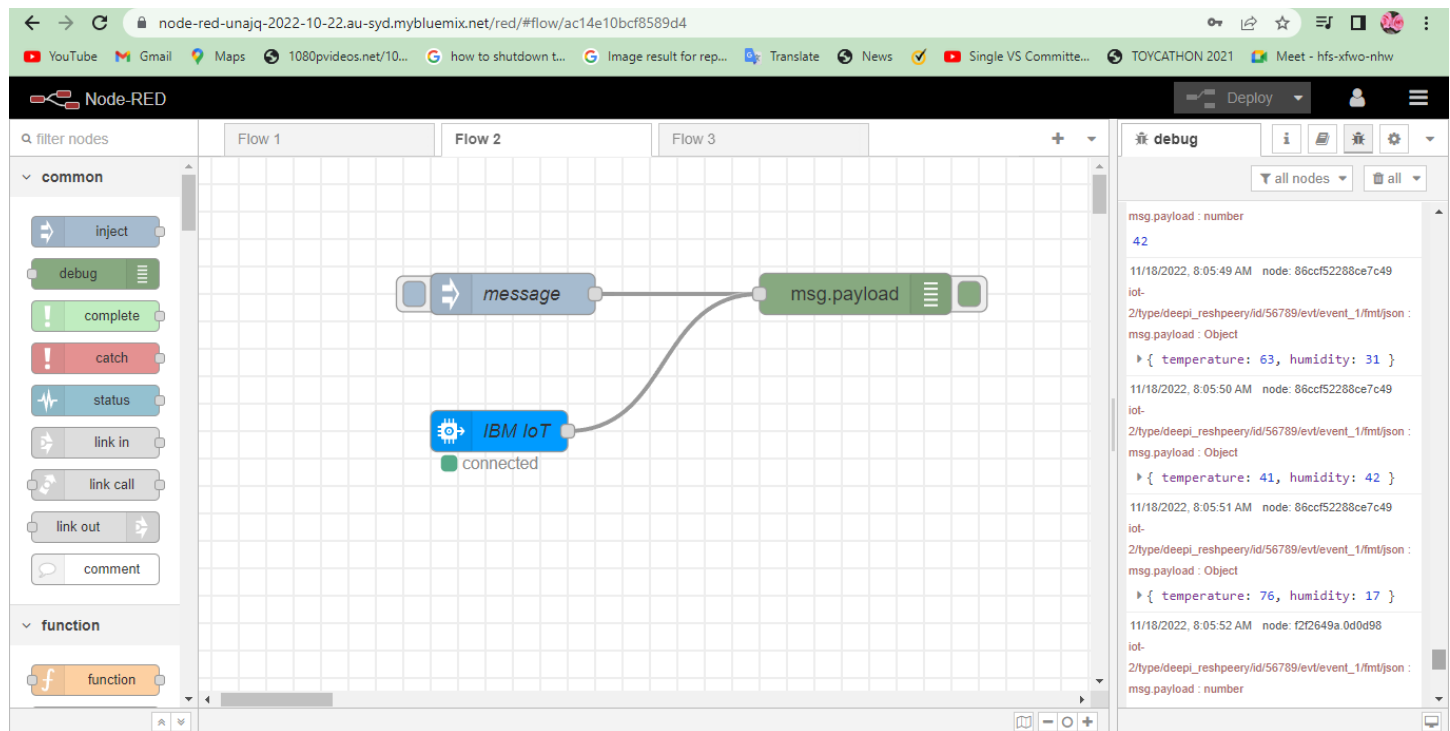
{ command: "LigthOFF" }

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_reshpeery/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_reshpeery/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_reshpeery/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_reshpeery/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_reshpeery/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_reshpeery/id/56789/evt/event_1/fmt/json : msg.payload : Object

{ temperature: 61, humidity: 5 }

NODE-RED to IBM cloud

LINE CHART

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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
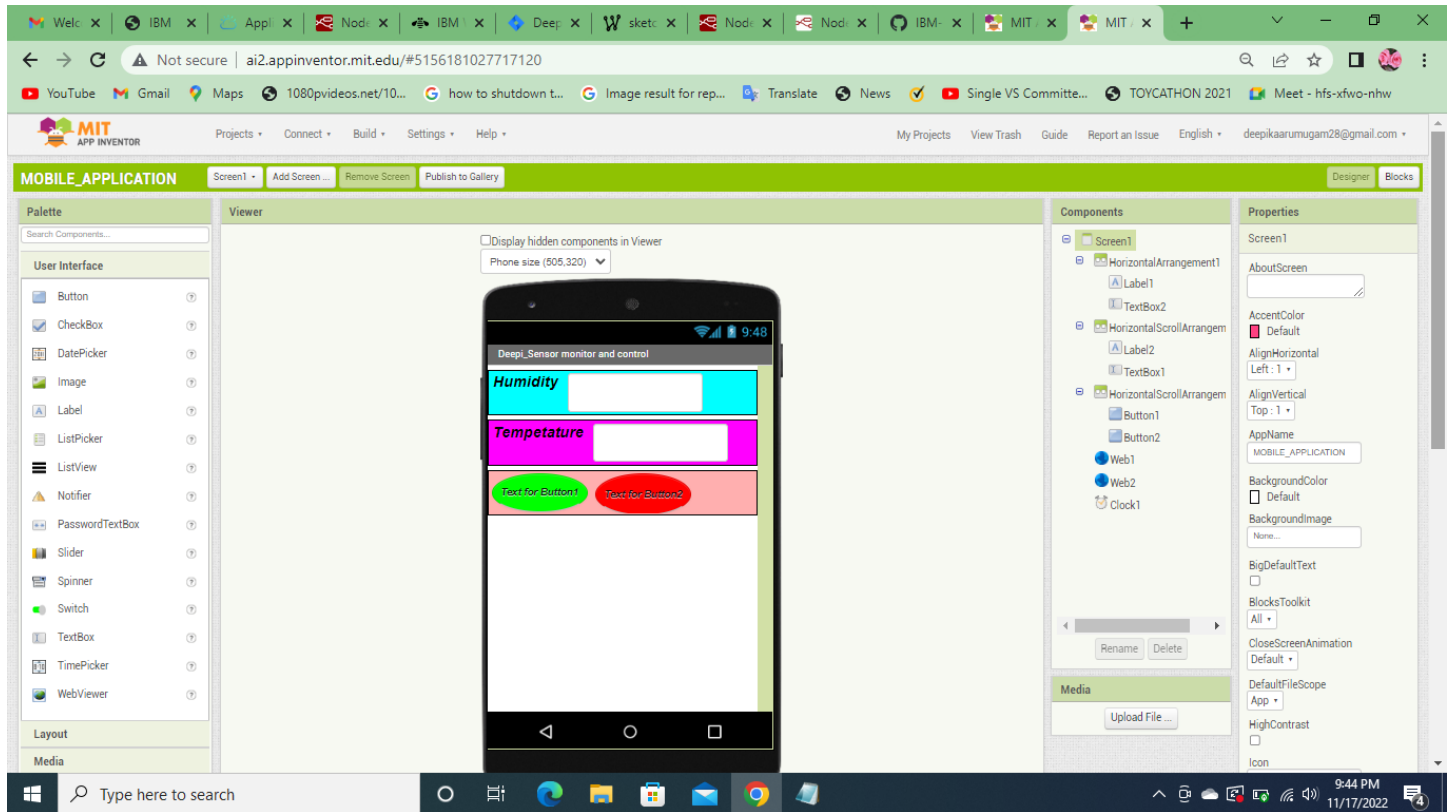
Conclusion:

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..!!