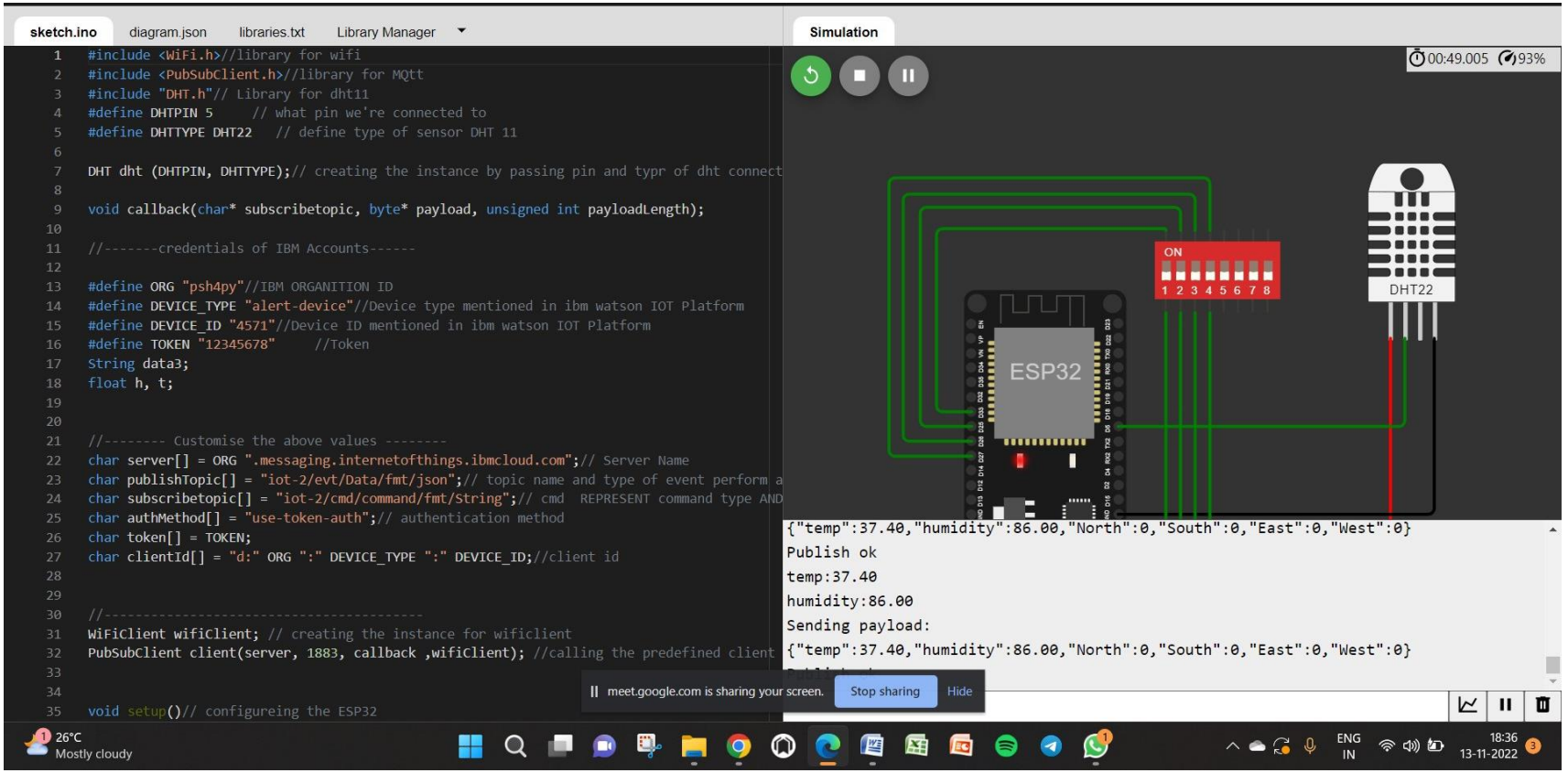
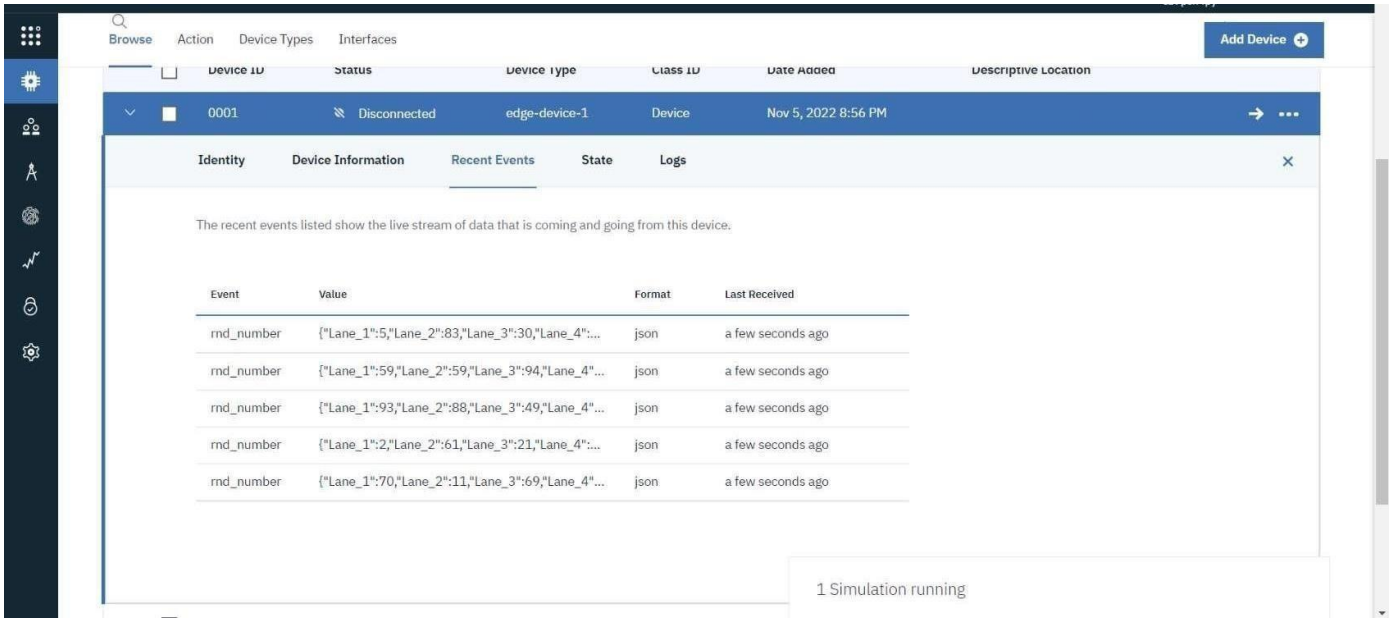
Project Development Phase
Sprint-3: MIT App Design and Testing

Date	14 November 2022
PNT2022TMID00922	PNT2022TMID20032
Project Name	Project – Signs with Smart Connectivity for Better Road Safety
Maximum Marks	8 Marks

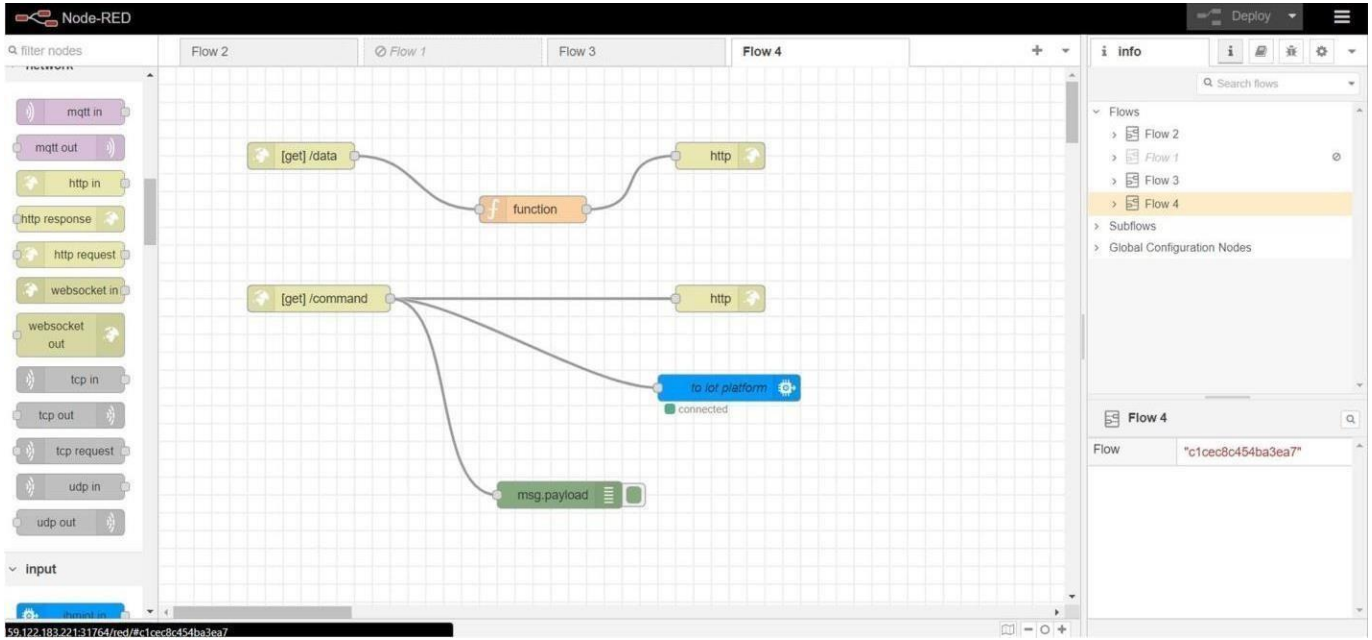
Wokwi Simulation: https://wokwi.com/projects/348216301620036179



IoT Device – IoT Platform



Node Red – Connect with MIT AppInventor



Edit function node

Delete Cancel

O Properties

'g• Name Name

O Setup On Start On Message On Stop

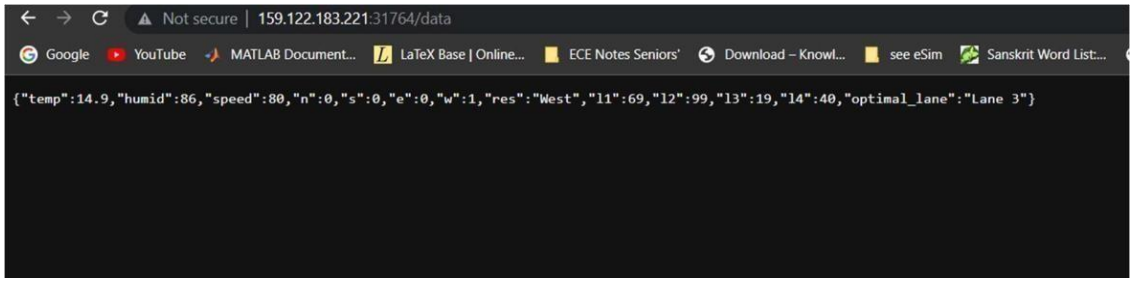
• msg. payload = {

2 "temp" :globa1. get ("temp") ,

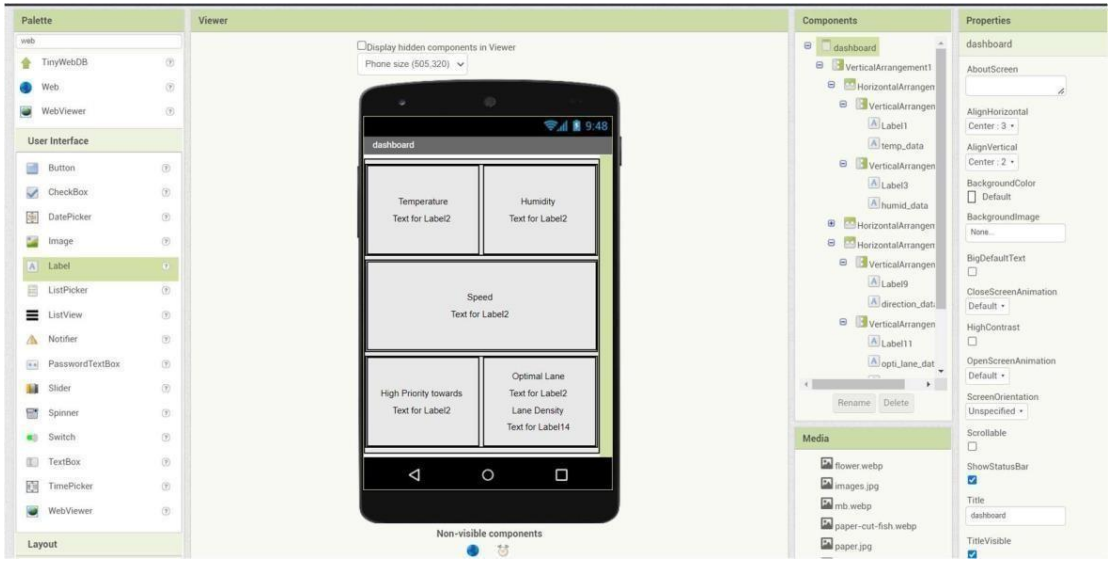
3 "humid":global.get(”humid"), p "speed”:global.get(”speed"),

```
                s "n" : global . get (”n”),  6 "s "
                : g1obal . get (”s"),
                7 "e ” : global . get ( "e" ) , 8 "w" :
               global . get ( "w" ) , g ”res ” : global
               . get (” res ” ) , 16 ”11” : gIoba1. get
               ( ”l1 ”) , tt ”12 ” : global . get( ”12 ” )
12        "13 " : globa1. get ( "13 "),
13        "14" : glOba1 . get ( "14" ) , t4 "opt imal I ane" :global . get ( "opt inal Jane" )
                15
                16’ };
                17 ig return
                msg;
```

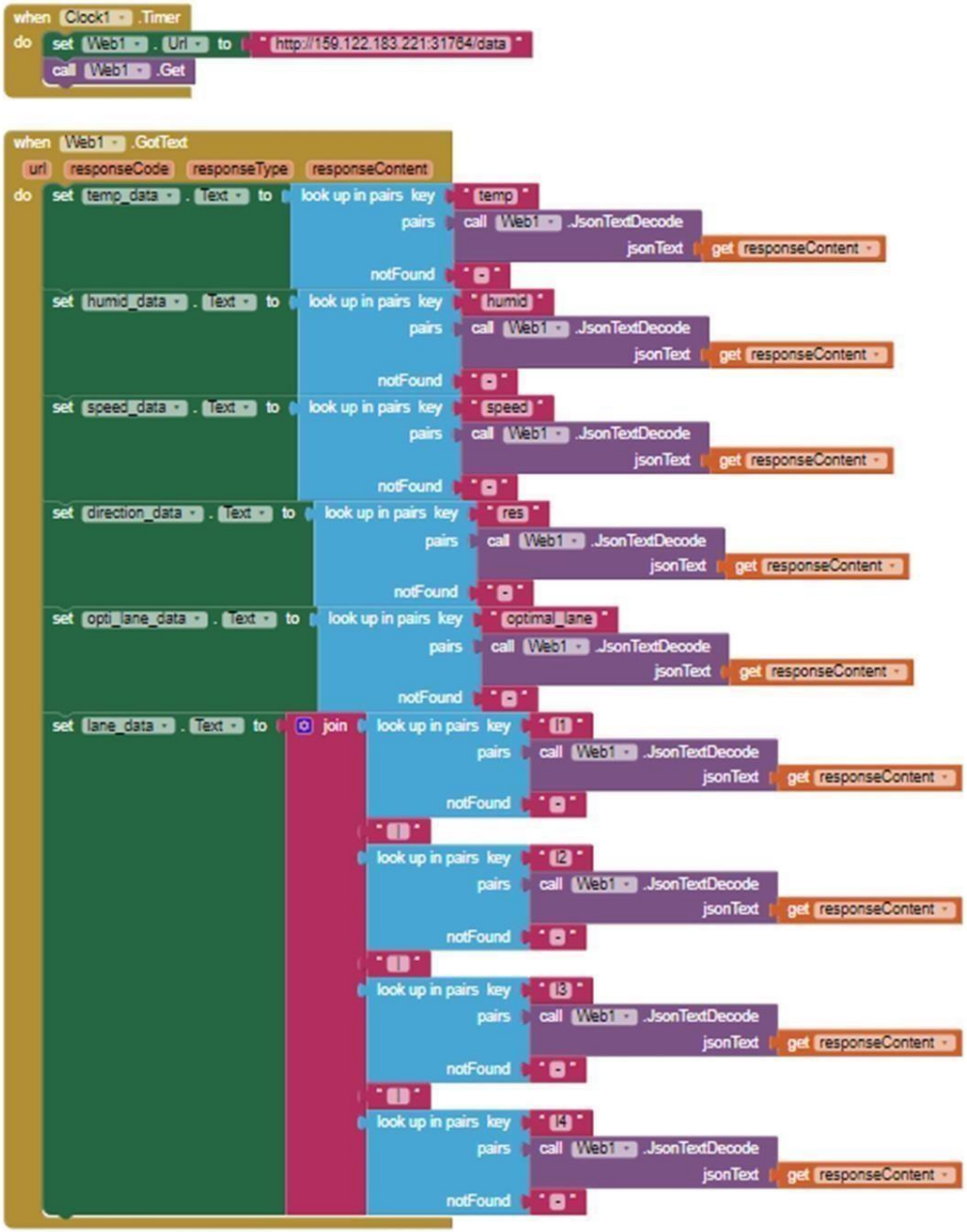
Output from Node red:



MIT App Inventor UI design:

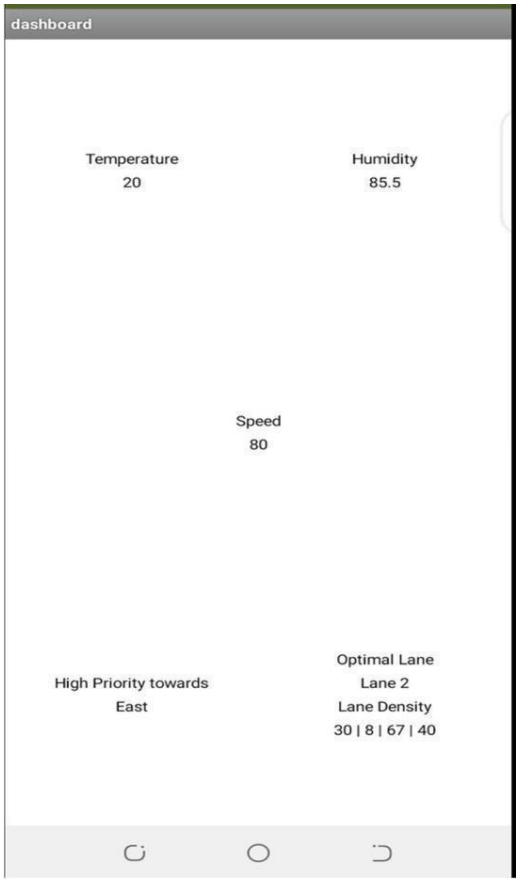


MIT App Inventor Backend design:



Sprint 3 delivery:

(OUTPUT) Display from MIT App:


dashboard
Temperature
20
Humidity
85.5
Speed
80
High Priority towards
East
Optimal Lane
Lane 2
Lane Density
30 | 8 | 67 | 40