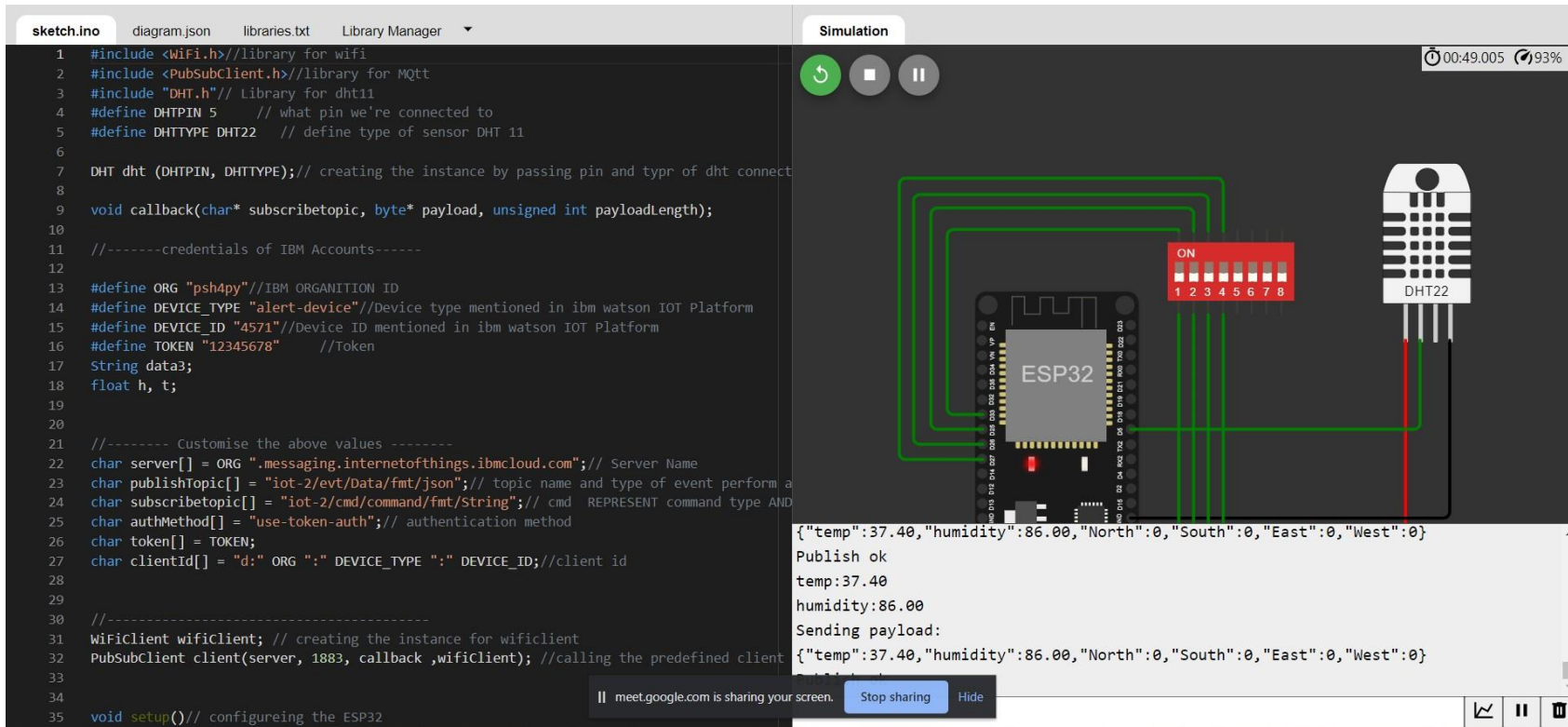


**Project Development Phase**  
**Sprint-3: MIT App Design and Testing**

Date	16/11/2022
Team ID	PNT2022TMID14966
Project Name	Signs with Smart Connectivity for BetterRoad Safety
Maximum Marks	8 Marks

### Wokwi Simulation:



## IoT Device – IoT Platform

The screenshot displays the 'Recent Events' tab for a device with ID 0001. The device is currently 'Disconnected'. The interface includes a top navigation bar with 'Browse', 'Action', 'Device Types', and 'Interfaces', along with an 'Add Device' button. A left sidebar contains various icons for navigation. The main content area shows a table of recent events, each containing a device ID, event name, status, device type, class ID, date added, and descriptive location. Below the table, a message states: 'The recent events listed show the live stream of data that is coming and going from this device.' A status bar at the bottom right indicates '1 Simulation running'.

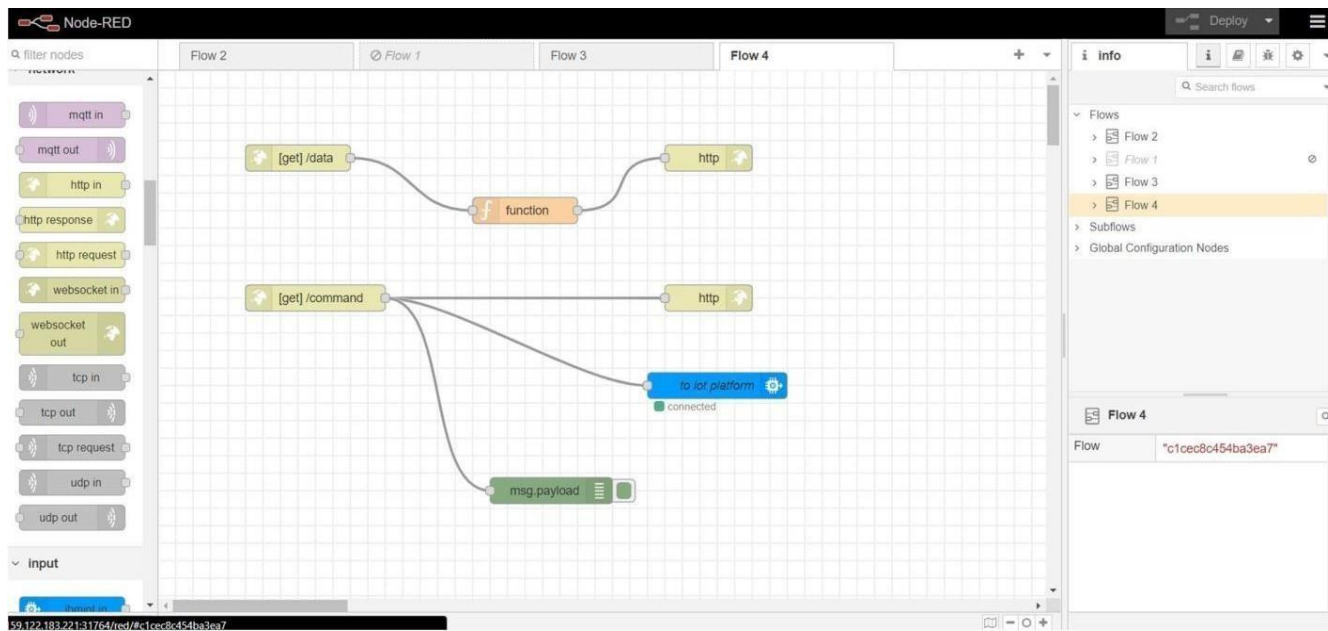
Device ID	Status	Device type	Class ID	Date Added	Descriptive Location
0001	Disconnected	edge-device-1	Device	Nov 5, 2022 8:56 PM	

Event	Value	Format	Last Received
rnd_number	{"Lane_1":5,"Lane_2":83,"Lane_3":30,"Lane_4":...	json	a few seconds ago
rnd_number	{"Lane_1":59,"Lane_2":59,"Lane_3":94,"Lane_4":...	json	a few seconds ago
rnd_number	{"Lane_1":93,"Lane_2":88,"Lane_3":49,"Lane_4":...	json	a few seconds ago
rnd_number	{"Lane_1":2,"Lane_2":61,"Lane_3":21,"Lane_4":...	json	a few seconds ago
rnd_number	{"Lane_1":70,"Lane_2":11,"Lane_3":69,"Lane_4":...	json	a few seconds ago

1 Simulation running

## Node Red – Connect with MIT AppInventor



## Edit function node

Delete

Cancel

☐ Properties



'g• Name

Name



☐ Setup

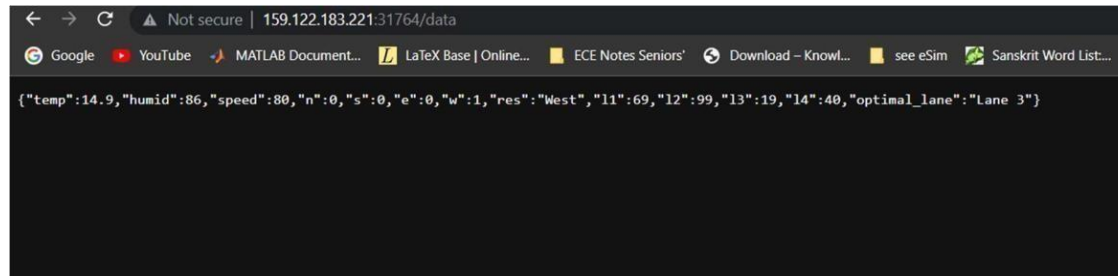
On Start

On Message

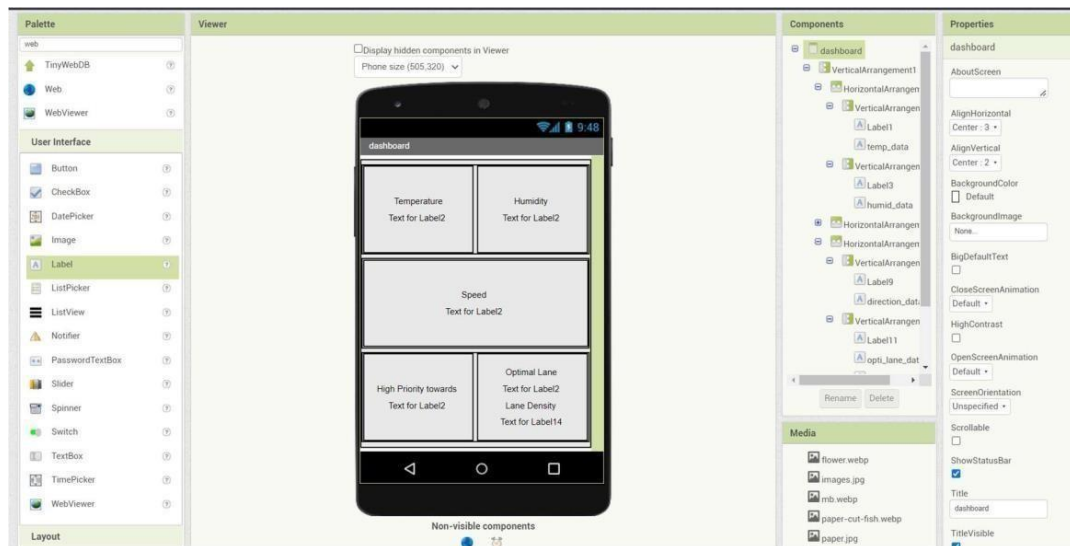
On Stop

```
• msg.payload = {
2   "temp":global.get("temp"),
3   "humid":global.get("humid"),
p  "speed":global.get("speed"),
s   "n":global.get("n"),
6   "s":global.get("s"),
7   "e":global.get("e"),
8   "w":global.get("w"),
g   "res":global.get("res"),
16  "11":global.get("11"),
tt  "12":global.get("12"),
12  "13":global.get("13"),
13  "14":global.get("14"),
t4  "optimal lane":global.get("optinal Jane")
15
16' };
17
ig return msg;
```

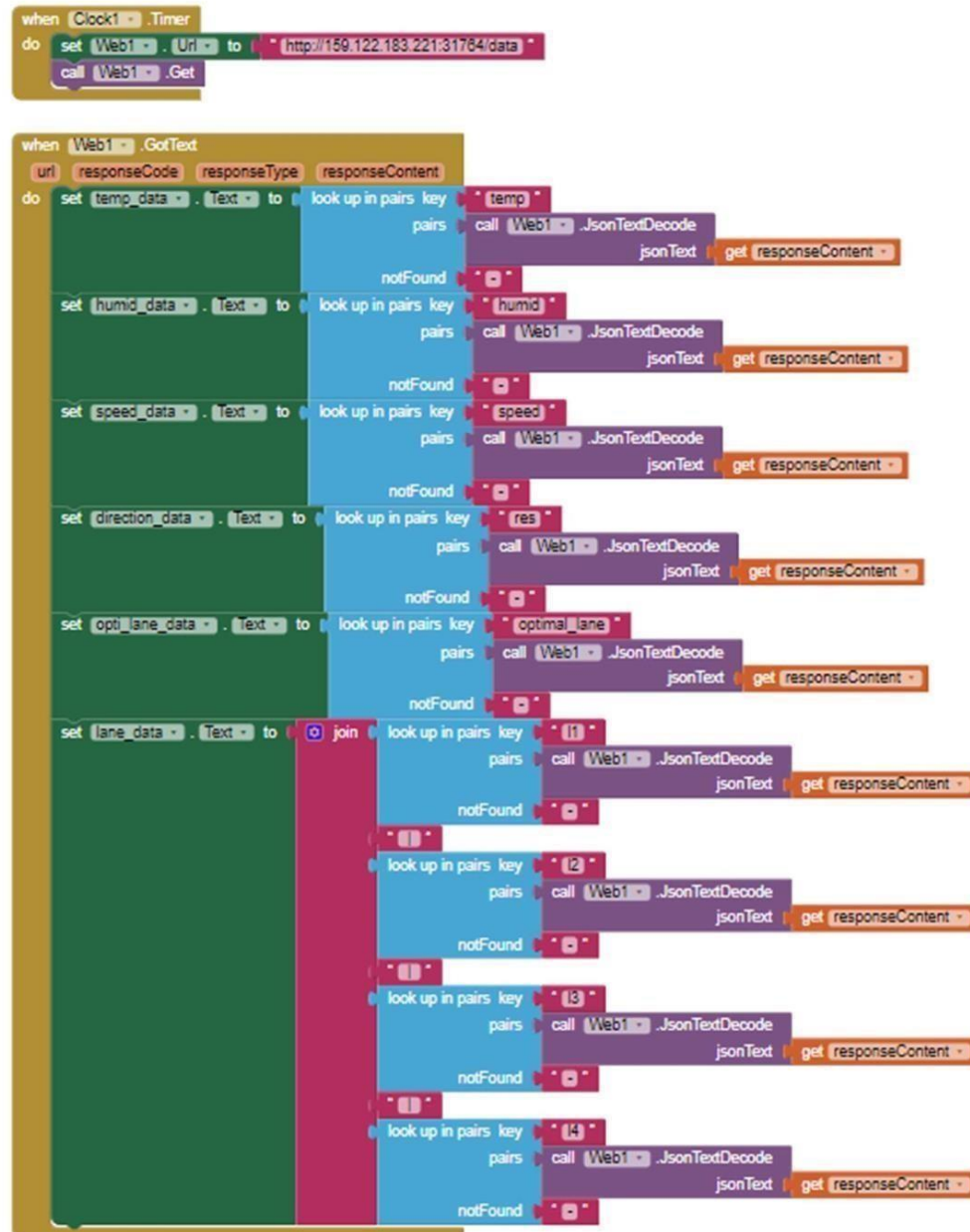
## Output from Node red:



## MIT App Inventor UI design:



## MIT App Inventor Backend design:



**Sprint 3 delivery:**

**(OUTPUT) Display from MIT App:**

