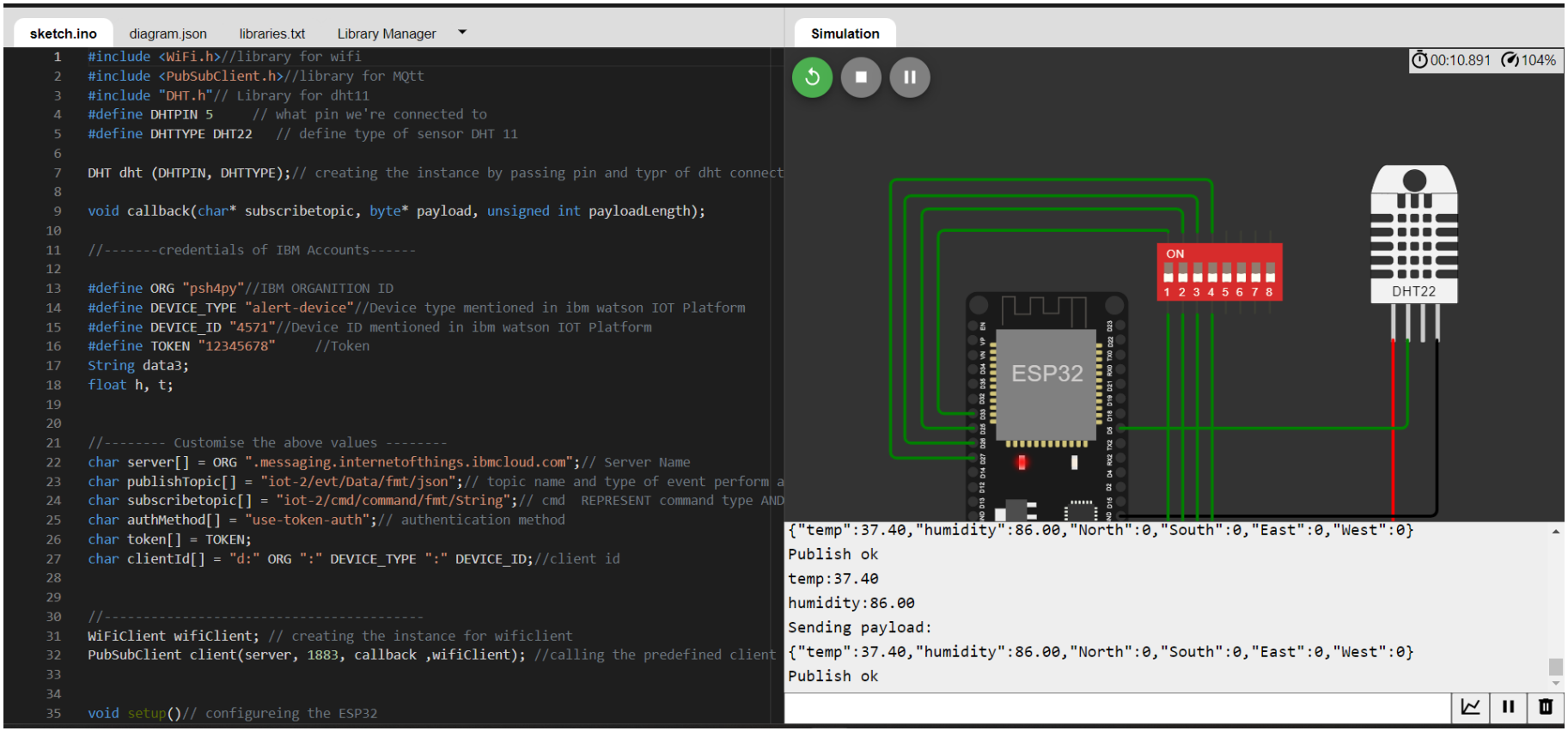
Project Development Phase
Sprint II

Date	13 November 2022
Team ID	PNT2022TMID29479
Project Name	Signs with Smart Connectivity for better road safety

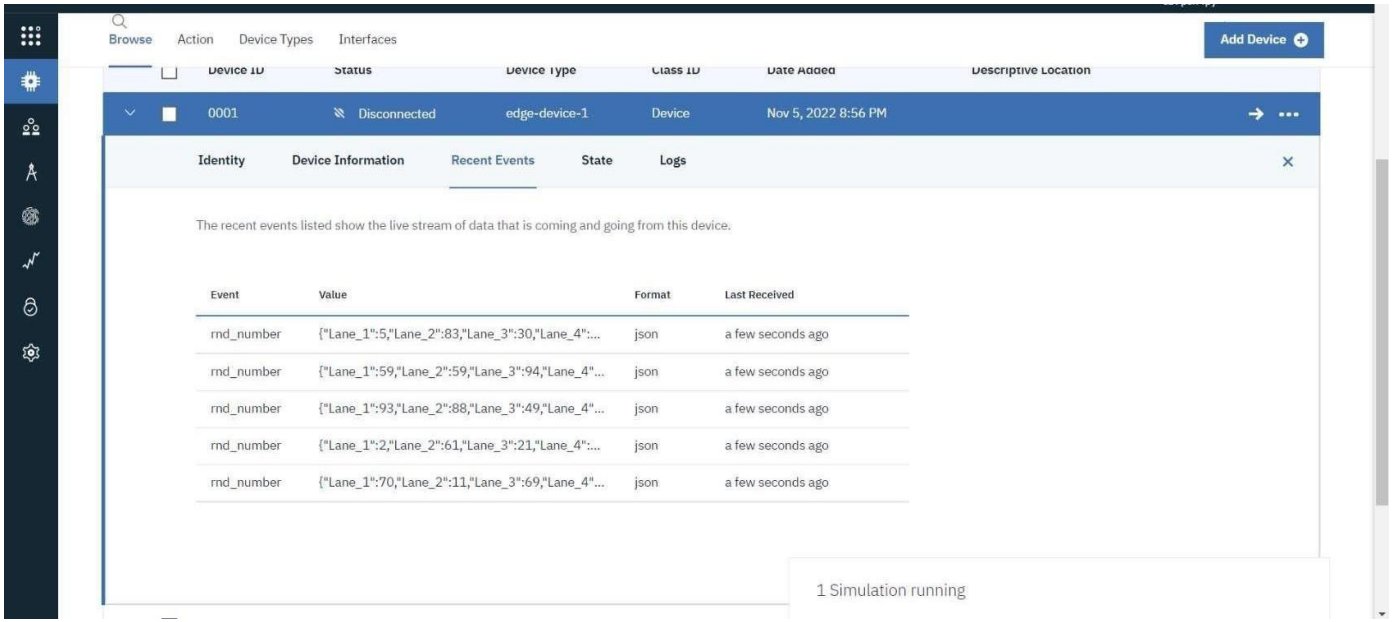
SPRINT TARGETS:

Sprint	Functional Requirement (Epic)	UserStory Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Safe Ride	USN-4	As a traveler , I should have a hustie free journey	20	Medium	Vaseegaran Vijiprakashraj Vijayaselvam Prakash

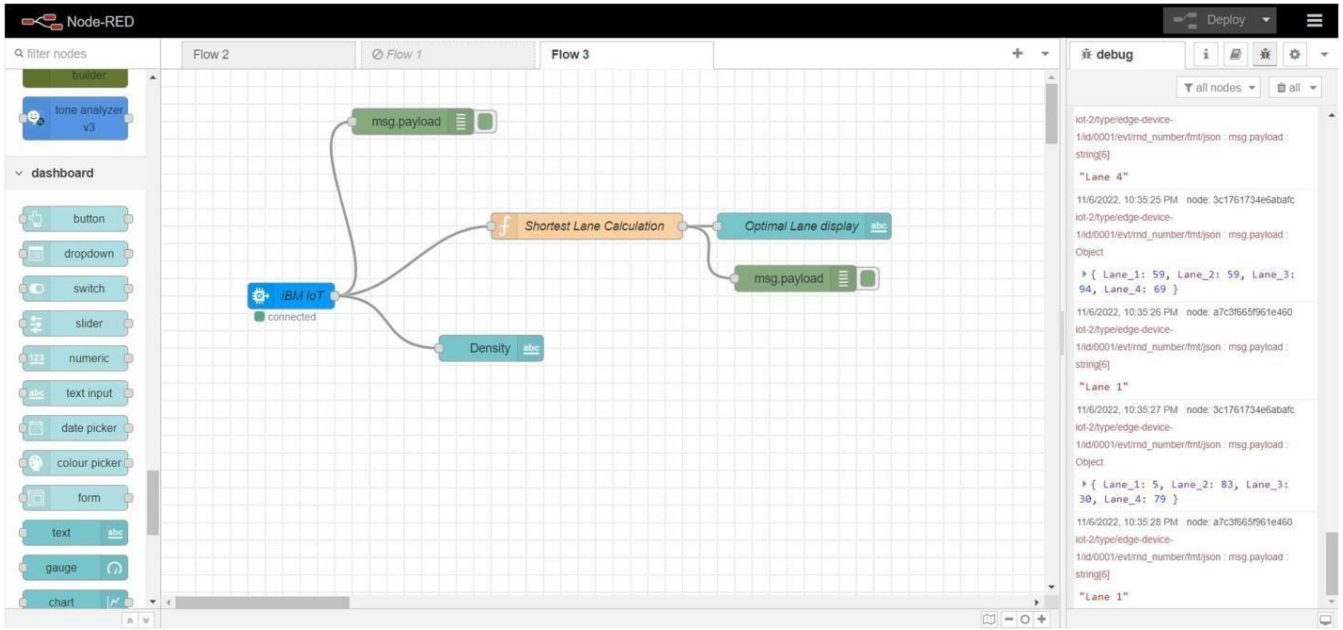
Wokwi Simulation:

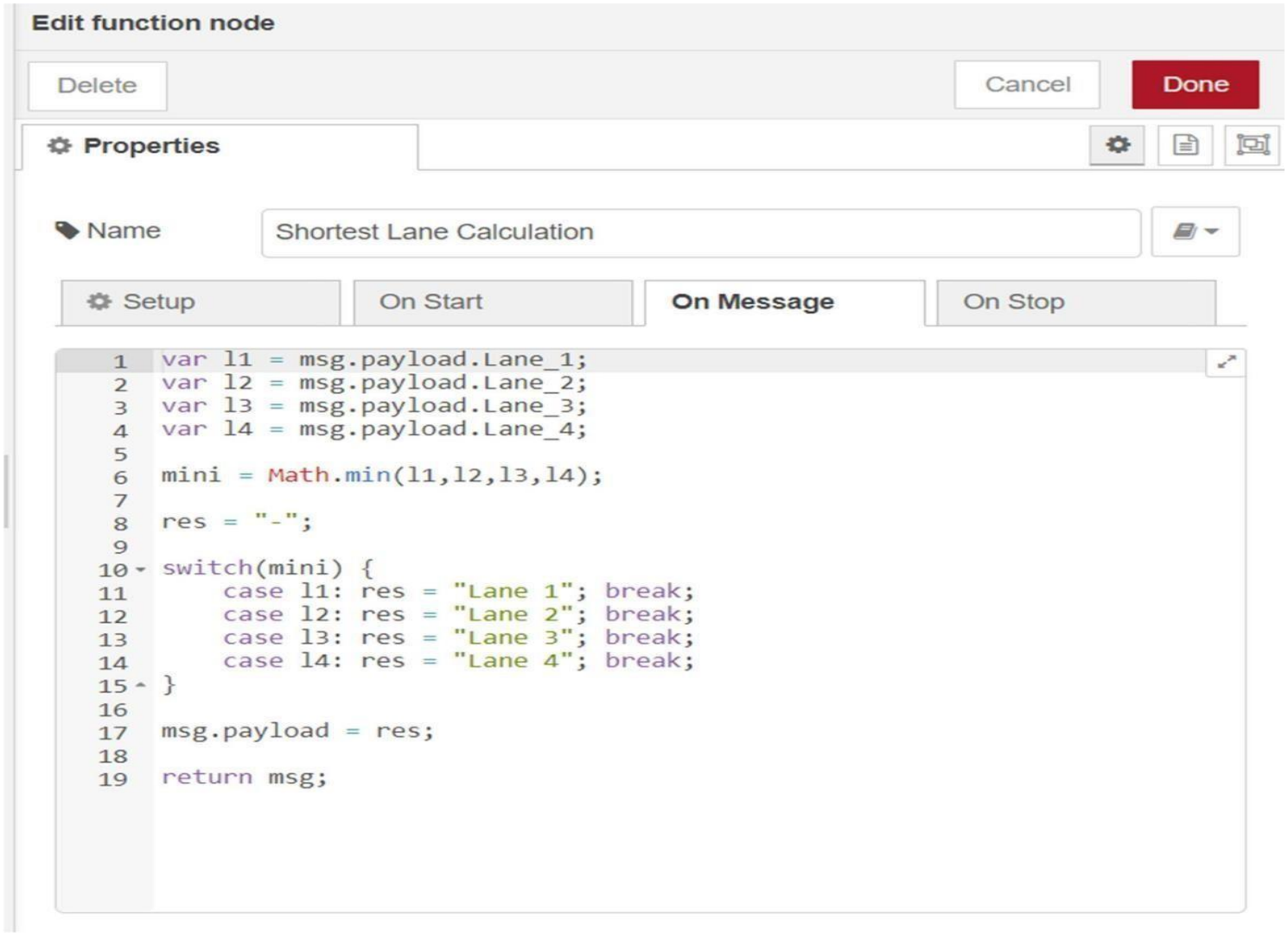


IoT Device – IoT Platform



Node Red


Node-RED
Deploy
filter nodes
Flow 2
Flow 1
Flow 3
debug
all nodes
all
tone analyzer v3
dashboard
button
dropdown
switch
slider
numeric
text input
date picker
colour picker
form
text
gauge
chart
msg.payload
Shortest Lane Calculation
Optimal Lane display
msg.payload
IBM IoT
connected
Density
iot-2/type/edge-device-1/id/0001/evt/rnd_number/fmt/json : msg.payload : string[6]
"Lane 4"
11/6/2022, 10:35:25 PM node: 3c1761734e6abafc
iot-2/type/edge-device-1/id/0001/evt/rnd_number/fmt/json : msg.payload : Object
{ Lane_1: 59, Lane_2: 59, Lane_3: 94, Lane_4: 69 }
11/6/2022, 10:35:26 PM node: a7c3f665f961e460
iot-2/type/edge-device-1/id/0001/evt/rnd_number/fmt/json : msg.payload : string[6]
"Lane 1"
11/6/2022, 10:35:27 PM node: 3c1761734e6abafc
iot-2/type/edge-device-1/id/0001/evt/rnd_number/fmt/json : msg.payload : Object
{ Lane_1: 5, Lane_2: 83, Lane_3: 30, Lane_4: 79 }
11/6/2022, 10:35:28 PM node: a7c3f665f961e460
iot-2/type/edge-device-1/id/0001/evt/rnd_number/fmt/json : msg.payload : string[6]
"Lane 1"


Edit function node
Delete
Cancel
Done
Properties
Name
Shortest Lane Calculation
Setup
On Start
On Message
On Stop
1 var l1 = msg.payload.Lane_1;
2 var l2 = msg.payload.Lane_2;
3 var l3 = msg.payload.Lane_3;
4 var l4 = msg.payload.Lane_4;
5
6 mini = Math.min(l1,l2,l3,l4);
7
8 res = "-";
9
10 switch(mini) {
11 case l1: res = "Lane 1"; break;
12 case l2: res = "Lane 2"; break;
13 case l3: res = "Lane 3"; break;
14 case l4: res = "Lane 4"; break;
15 }
16
17 msg.payload = res;
18
19 return msg;

Node Red Web UI