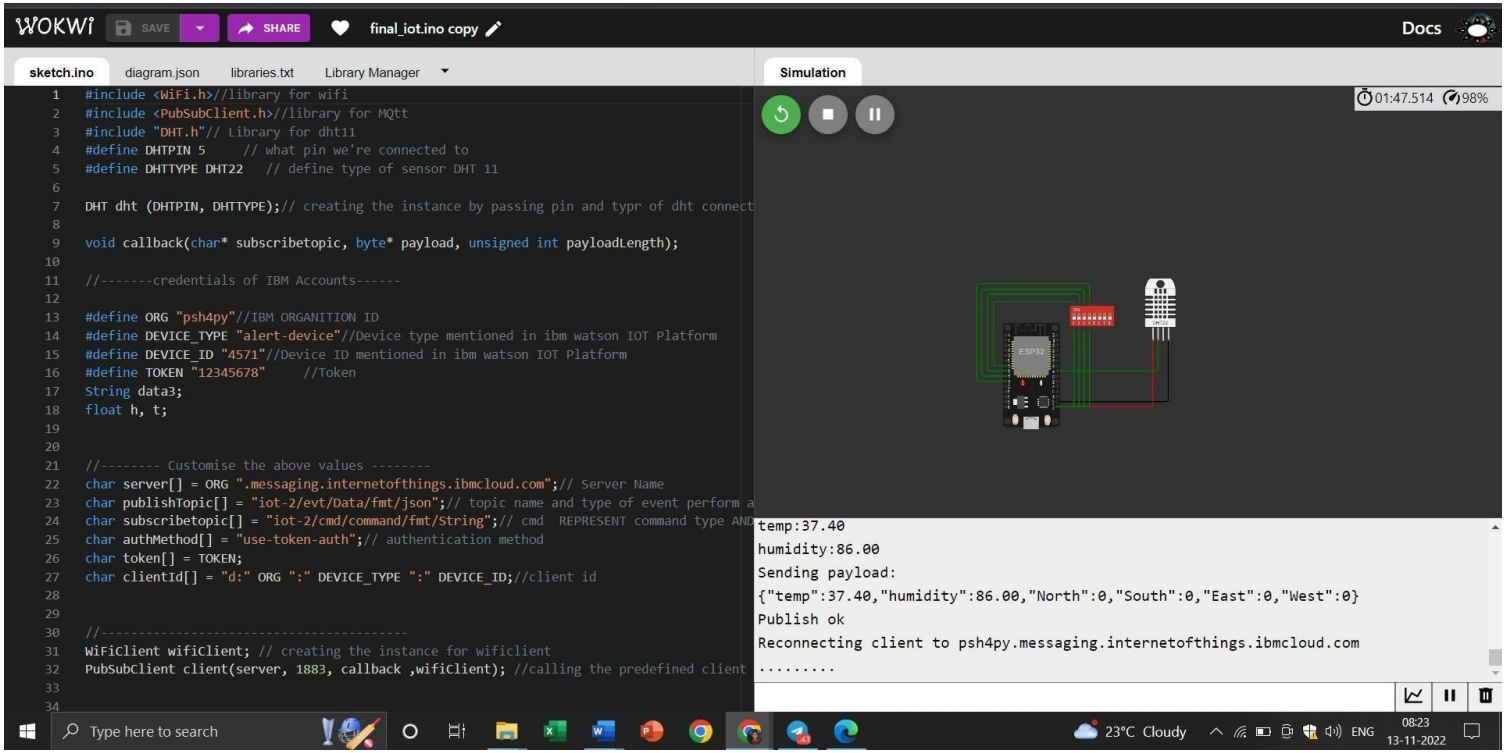
Project Development Phase
Sprint II

Team ID	PNT2022TMID30708
Project Name	Signs with Smart Connectivity for better road safety

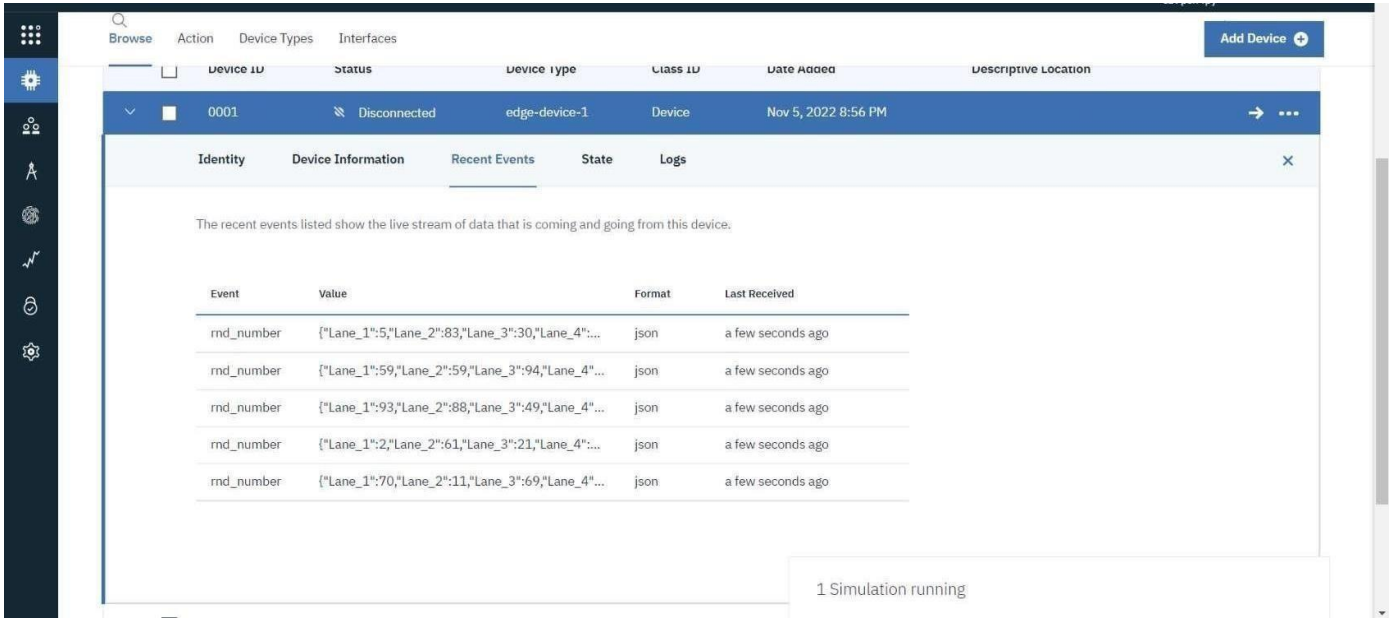
SPRINT TARGETS:

Sprint	**Functional Requirement (Epic)**	**User Story Number**	**User Story / Task**	**Story Points**	**Priority**	**Team** Members
Sprint-2	Safe Ride	USN-4	I should experience a hustle-free voyage as a traveller.	20	Medium	Janani.S Preethi.S Mohanapriya.P Elavarasi.G

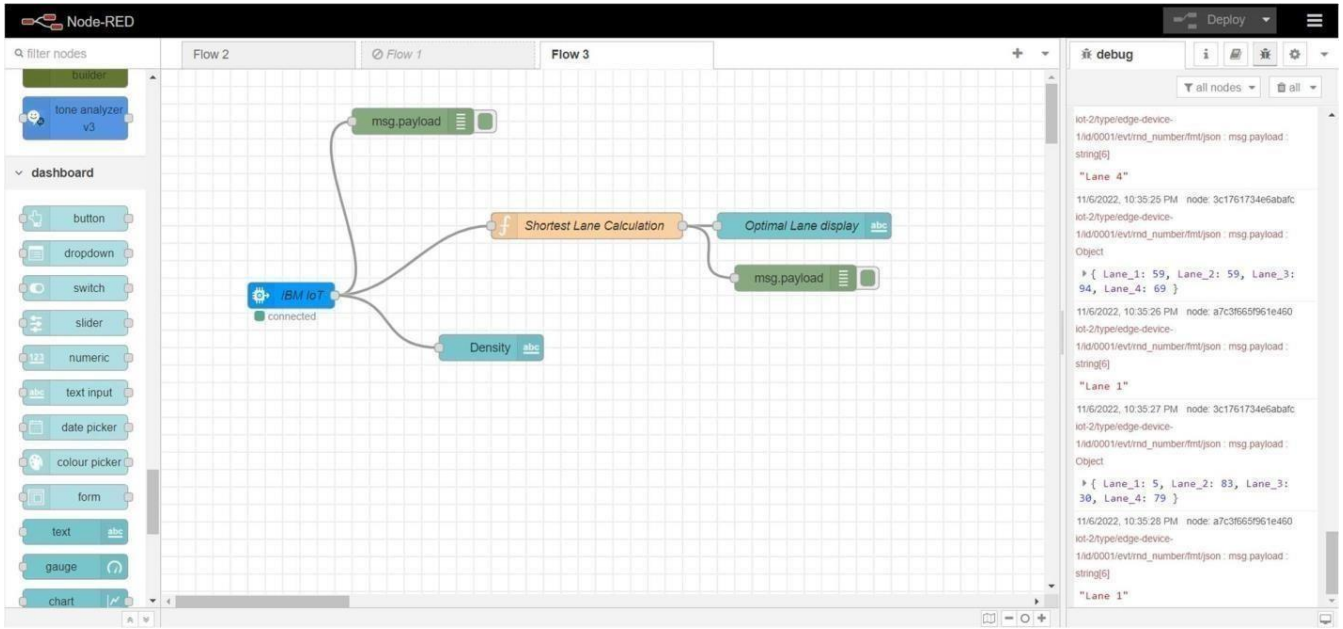
WOKWI Simulation:

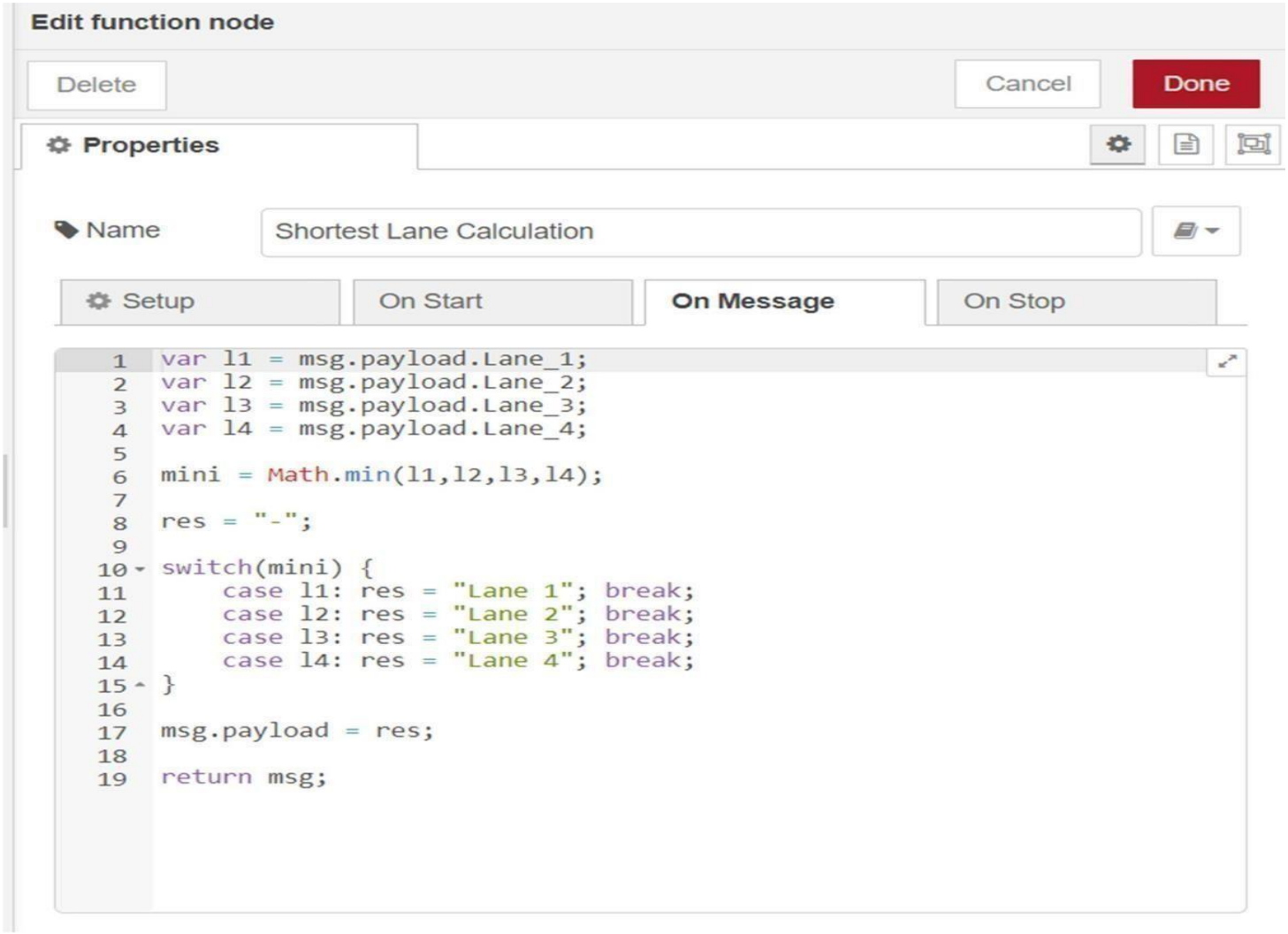


IoT Device – IoT Platform


Browse
Action
Device Types
Interfaces
Add Device
Device ID
Status
Device Type
Class ID
Date Added
Descriptive Location
0001
Disconnected
edge-device-1
Device
Nov 5, 2022 8:56 PM
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
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


Node-RED
Deploy
filter nodes
Flow 2
Flow 1
Flow 3
debug
all nodes
all
builder
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"



Node Red Web UI


Home
Speed Limit
Speed Limit
71.1
0
100
Environment Data
Temperature
16.1
Humidity
76.5
High Priority Vehicle Direction
High Priority
Towards North
Lane Density
Optimal Lane
Lane 1
Density
5 | 83 | 30 | 79