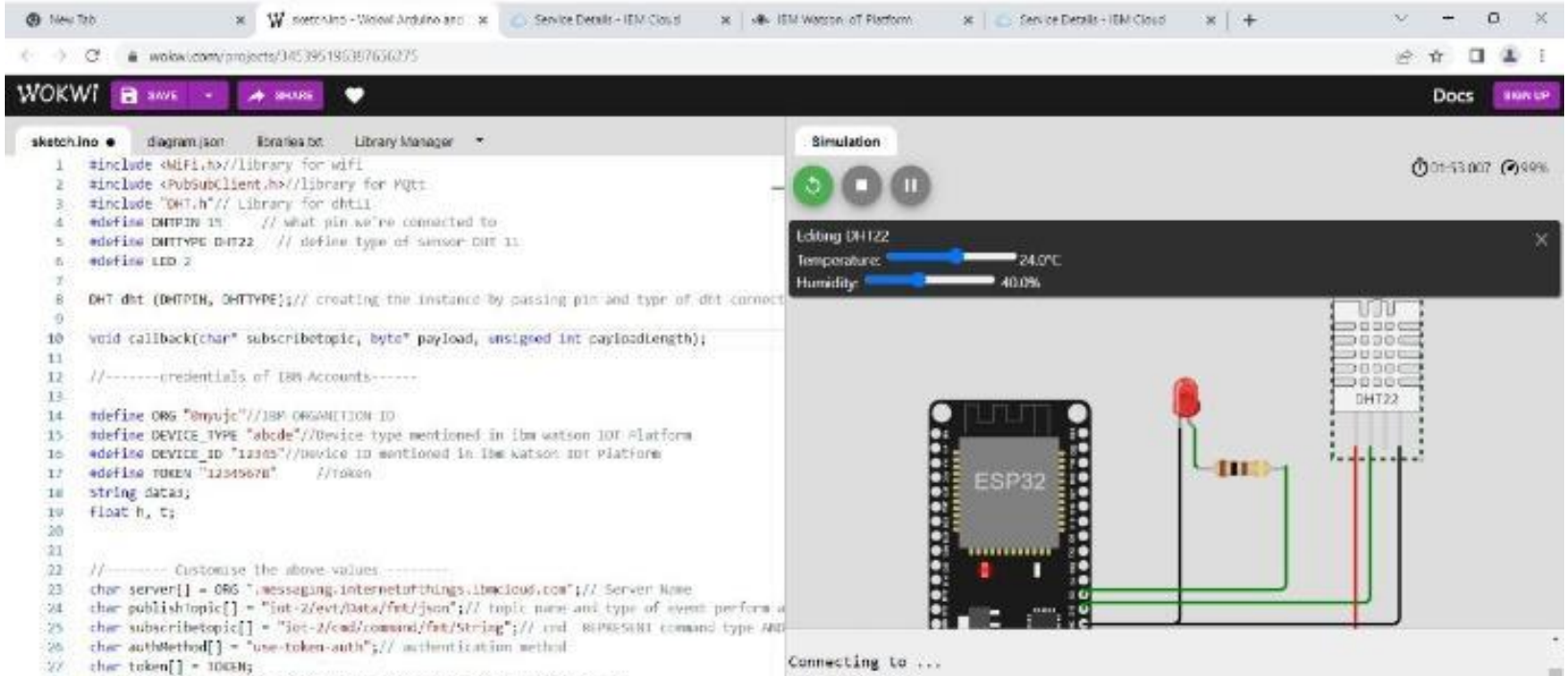
Project Development Phase Sprint II

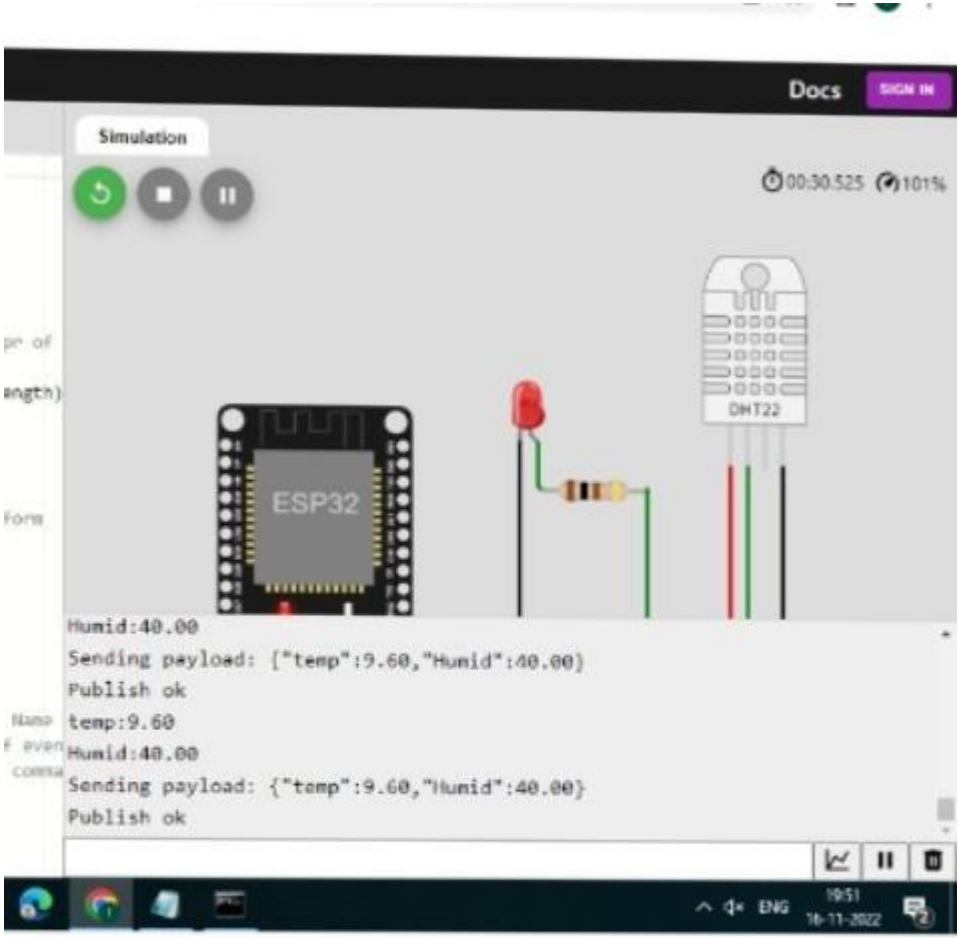
Date	13 November 2022
Team ID	PNT2022TMID47661
Project Name	Signs with Smart Connectivity for better road safety

SPRINT TARGETS:

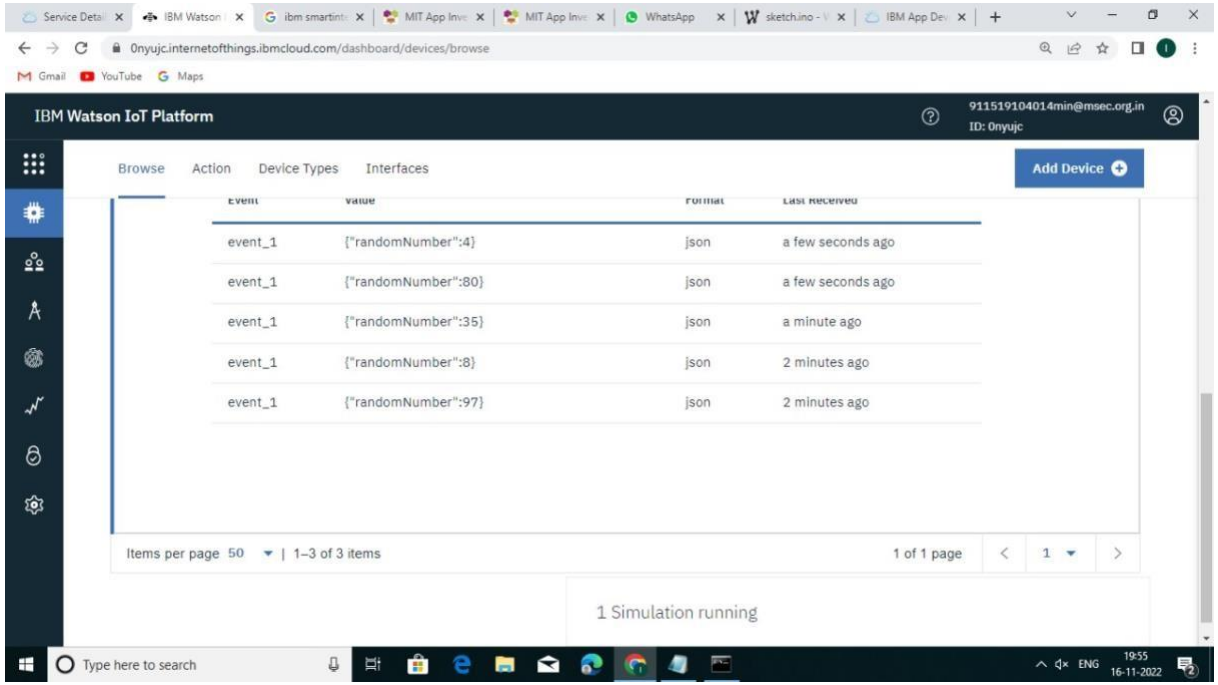
Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Safe Ride	USN-4	As a traveler , I should have a hustie free journey	20	Medium	Issathu nisha Sanna Suhaina Fahima

Wokwi S

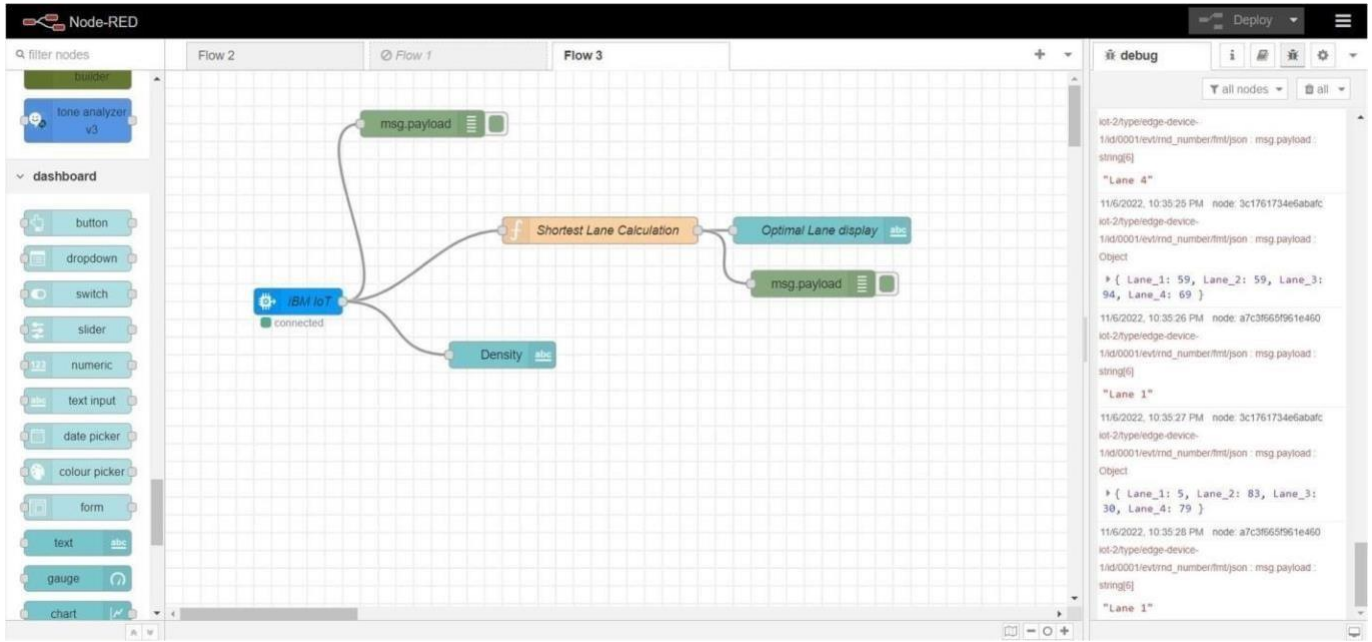

WOKWI
SAVE
SHARE
Docs
SIGN UP
sketch.ino
diagram.json
libraries.txt
Library Manager
#include <WiFi.h>//library for wifi
#include <PubSubClient.h>//library for MQtt
#include "DHT.h"// Library for dht11
#define DHTPIN 15 // what pin we're connected to
#define DHTTYPE DHT22 // define type of sensor DHT 11
#define LED 2
DHT dht (DHTPIN, DHTTYPE);// creating the instance by passing pin and type of dht connect
void callback(char* subscribetopic, byte* payload, unsigned int payloadLength);
//-------credentials of IBM Accounts------
#define ORG "0nyujc"//IBM ORGANITION ID
#define DEVICE_TYPE "abcde"//Device type mentioned in ibm watson IOT Platform
#define DEVICE_ID "12345"//Device ID mentioned in Ibm Watson IOT Platform
#define TOKEN "12345678" //token
String data3;
float h, t;
//-------- Customise the above values --------
char server[] = ORG ".messaging.internetofthings.ibmcloud.com";// Server Name
char publishTopic[] = "iot-2/evt/Data/fmt/json";// topic name and type of event perform
char subscribetopic[] = "iot-2/cmd/command/fmt/String";// cmd REPRESENTS command type AND
char authMethod[] = "use-token-auth";// authentication method
char token[] = TOKEN;
Simulation
Editing DHT22
Temperature: 24.0°C
Humidity: 40.0%
ESP32
DHT22
Connecting to ...



IoT Device – IoT Platform


0nyujc.internetofthings.ibmcloud.com/dashboard/devices/browse
IBM Watson IoT Platform
911519104014min@msec.org.in
ID: 0nyujc
Browse
Action
Device Types
Interfaces
Add Device
event_1 {"randomNumber":4} json a few seconds ago
event_1 {"randomNumber":80} json a few seconds ago
event_1 {"randomNumber":35} json a minute ago
event_1 {"randomNumber":8} json 2 minutes ago
event_1 {"randomNumber":97} json 2 minutes ago
Items per page 50 | 1–3 of 3 items
1 of 1 page
1 Simulation running
Type here to search
ENG
19:55
16-11-2022

Node Red



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