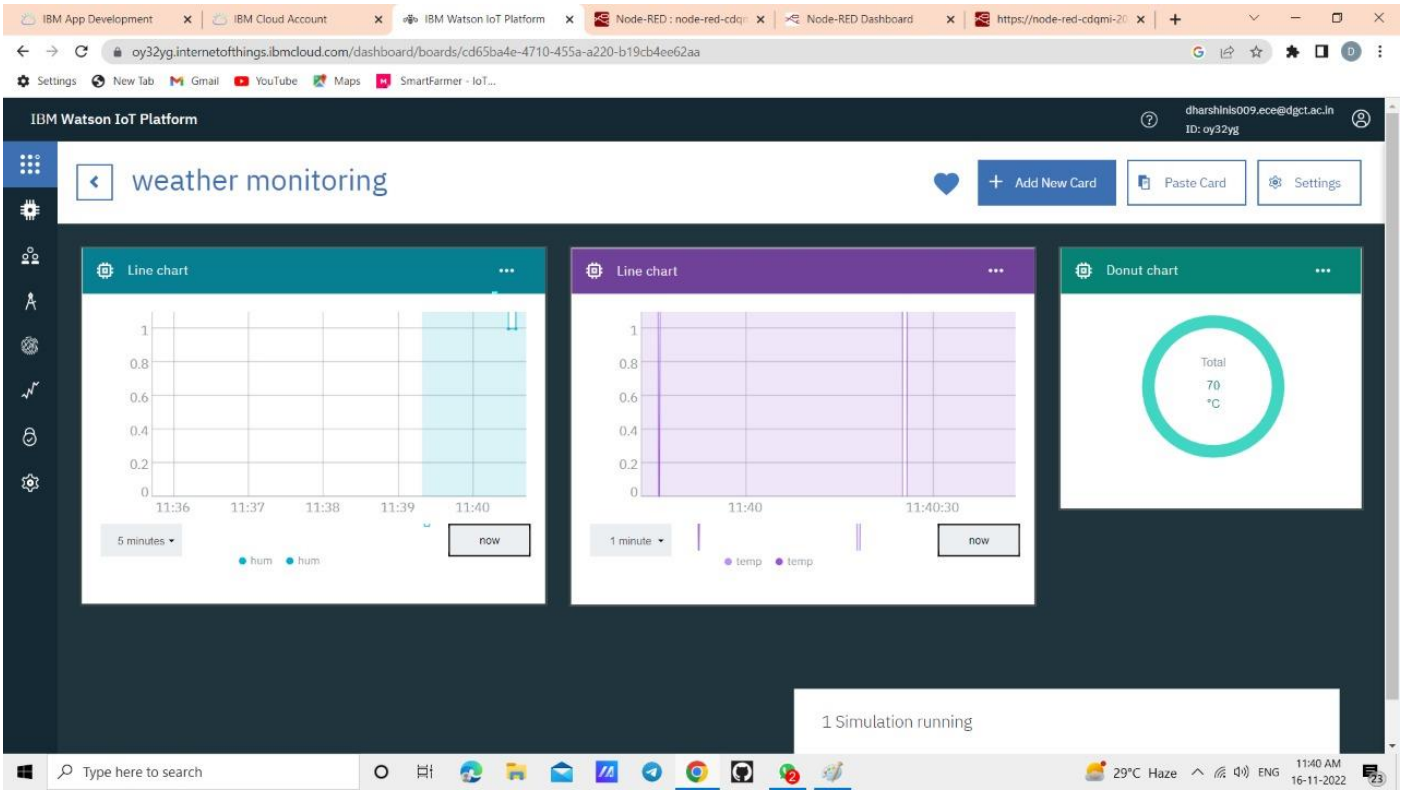
Sprint delivery 2

Title	Smart Farmer-IOT Enabled Smart Farming Application
Domain name	INTERNET OF THINGS
Team ID	PNT2022TMID29878

Building Project

Connecting IoT Simulatort to IBM Watson IoT Platform



You can see the received data in graphs by creating cards in Boards tab

- ➢ You will receive the simulator data in cloud
- ➢ You can see the received data in Recent Events under your device
- ➢ Data received in this format(json)

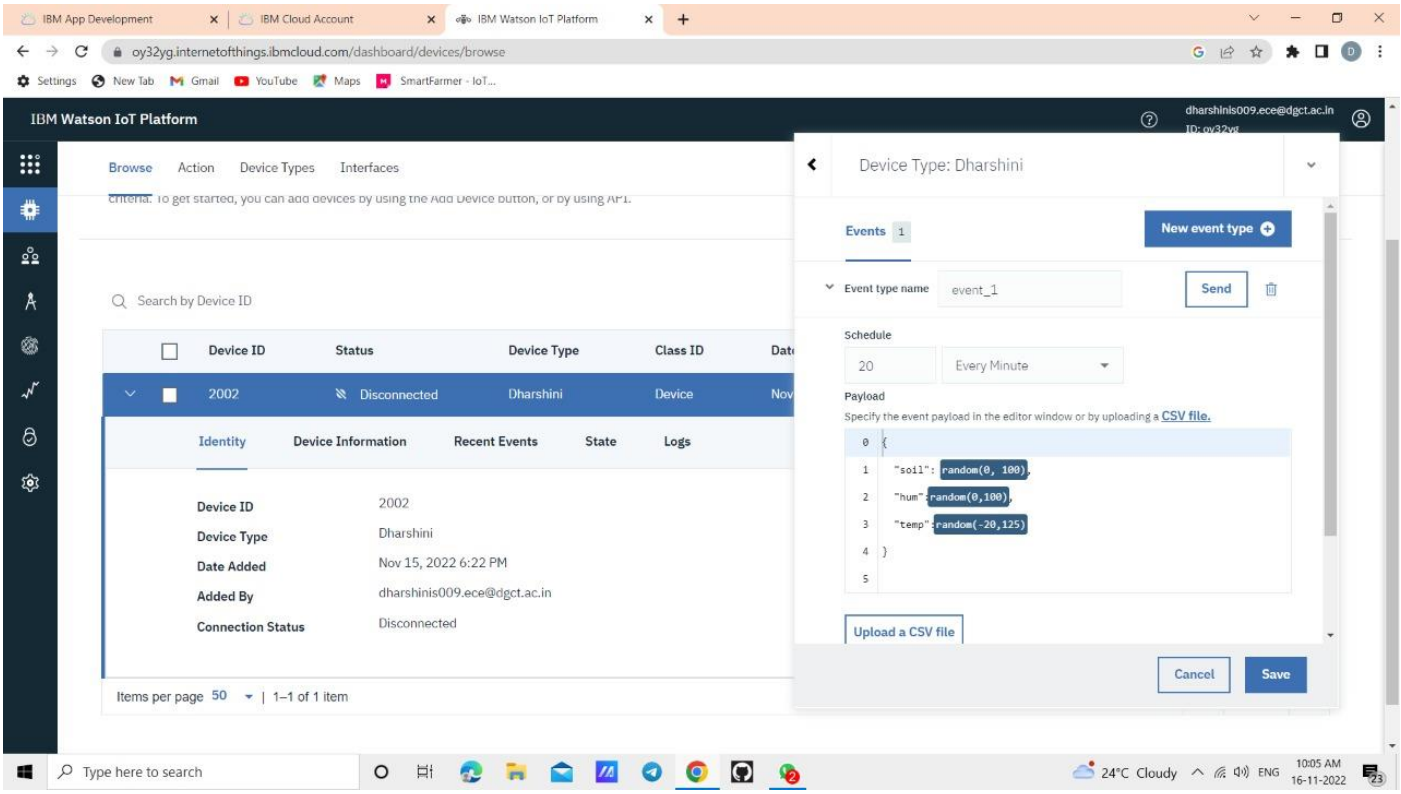
{

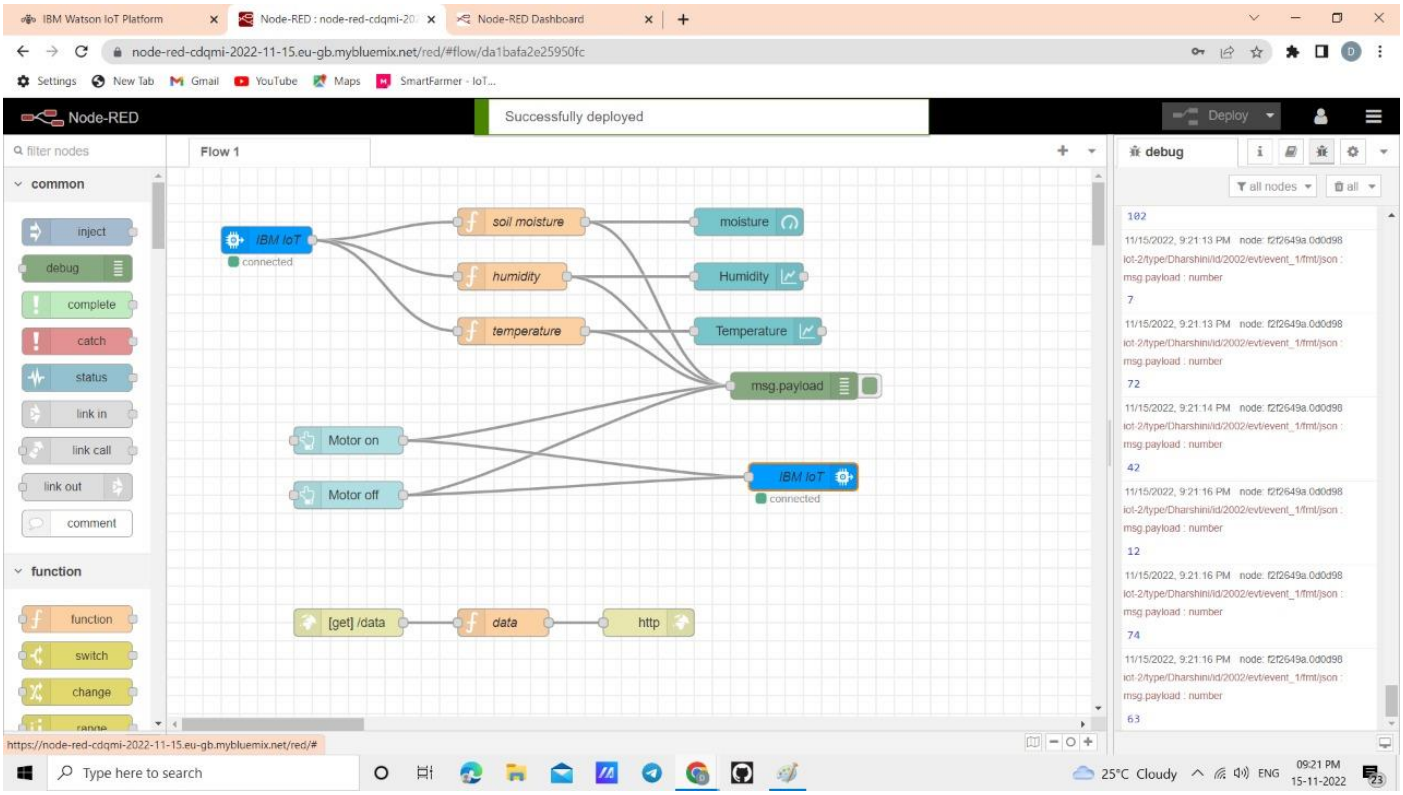
"d":{

- "name": "abcd",
- "temperature": 17,
- "humidity": 76,
- "Moisture ": 25

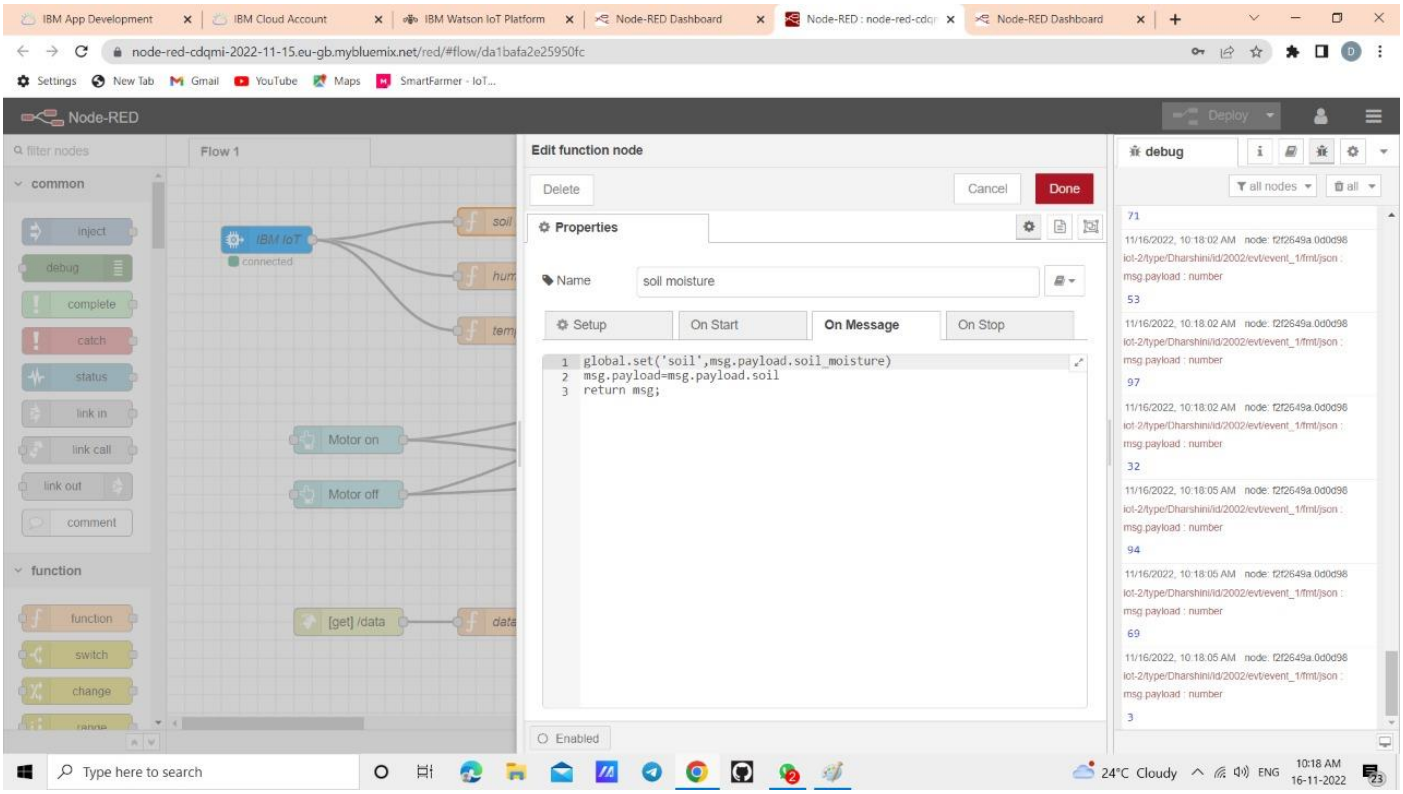
}

}





- The node IBM IoT App In is added to Node-Red workflow. Then the appropriate device credentials obtained earlier are entered into the node to connect and fetch device telemetry to Node-Red.
- Once it is connected Node-Red receives data from the device Display the data using debug node for verification
- Connect function node and write the Java script code to get each reading separately.
- The Java script code for the function node is: msg.payload=msg.payload.d.temperature return msg;
- Finally connect Gauge nodes from dashboard to see the data in UI


IBM App Development
IBM Cloud Account
IBM Watson IoT Platform
Node-RED Dashboard
Node-RED : node-red-cdqmi
Node-RED Dashboard
node-red-cdqmi-2022-11-15.eu-gb.mybluemix.net/red/#flow/da1bafa2e25950fc
Settings
New Tab
Gmail
YouTube
Maps
SmartFarmer - IoT...
Node-RED
Deploy
filter nodes
Flow 1
common
inject
debug
complete
catch
status
link in
link call
link out
comment
function
function
switch
change
IBM IoT
connected
soil
Motor on
Motor off
[get] /data
Edit function node
Delete
Cancel
Done
Properties
Name
soil moisture
Setup
On Start
On Message
On Stop
1 global.set('soil',msg.payload.soil_moisture)
2 msg.payload=msg.payload.soil
3 return msg;
Enabled
debug
all nodes
all
71
11/16/2022, 10:18:02 AM node: f2f2649a.0d0d98
iot-2/type/Dharshini/id/2002/evt/event_1/fmt/json : msg.payload : number
53
11/16/2022, 10:18:02 AM node: f2f2649a.0d0d98
iot-2/type/Dharshini/id/2002/evt/event_1/fmt/json : msg.payload : number
97
11/16/2022, 10:18:02 AM node: f2f2649a.0d0d98
iot-2/type/Dharshini/id/2002/evt/event_1/fmt/json : msg.payload : number
32
11/16/2022, 10:18:05 AM node: f2f2649a.0d0d98
iot-2/type/Dharshini/id/2002/evt/event_1/fmt/json : msg.payload : number
94
11/16/2022, 10:18:05 AM node: f2f2649a.0d0d98
iot-2/type/Dharshini/id/2002/evt/event_1/fmt/json : msg.payload : number
69
11/16/2022, 10:18:05 AM node: f2f2649a.0d0d98
iot-2/type/Dharshini/id/2002/evt/event_1/fmt/json : msg.payload : number
3
Type here to search
24°C Cloudy
ENG
10:18 AM
16-11-2022