Smart Farmer - IoT Enabled Smart Farming Application

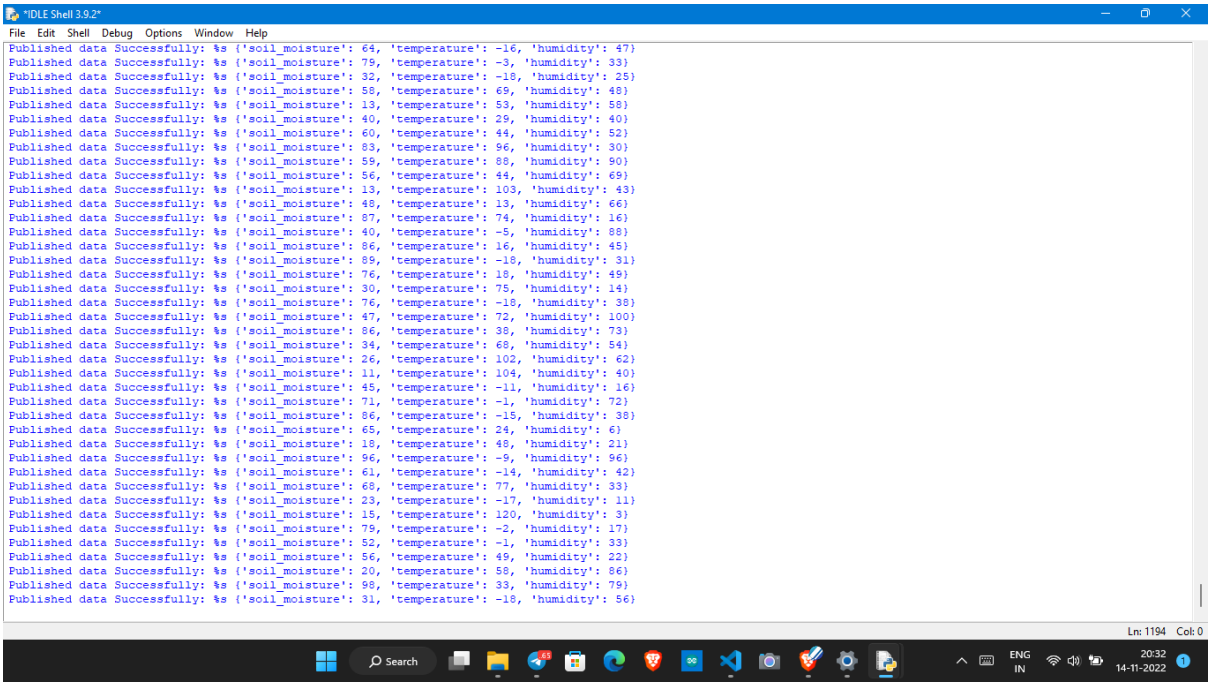
SPRINT - 2

TEAM ID	PNT2022TMID04114
DATE	14TH NOVEMBER 2022

IBM Watson IoT platform, Workflows for IoT scenarios using Node red: Building Project:

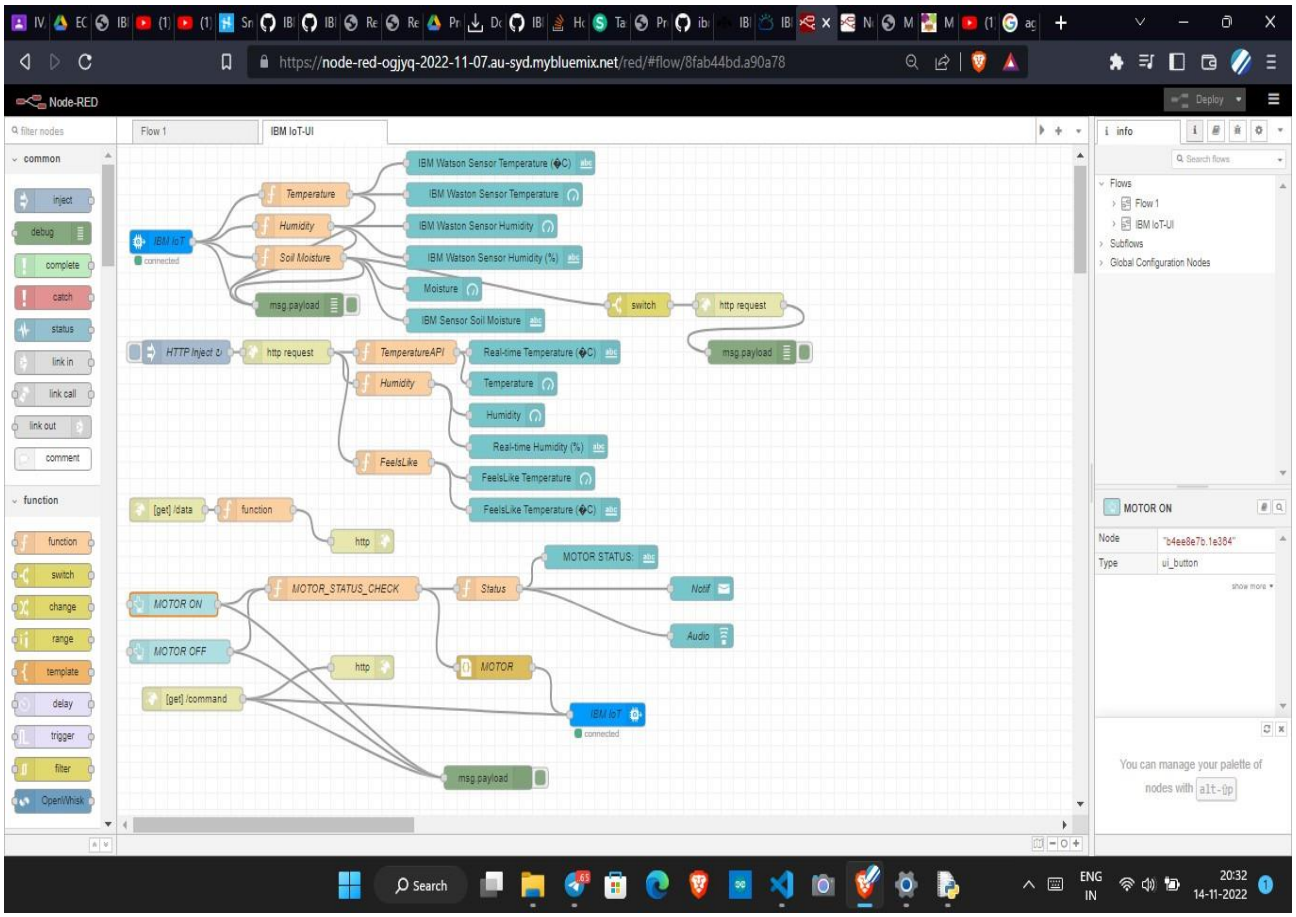
Connecting IOT Simulator to IBM Watson IOTPlatform.

Give the credentials of your device in IBM Watson "orgId": "04gt4e", "typeId": "NodeMCU","deviceId": "12345"



The node IBM IOT App In is added to Node-Red workflow.

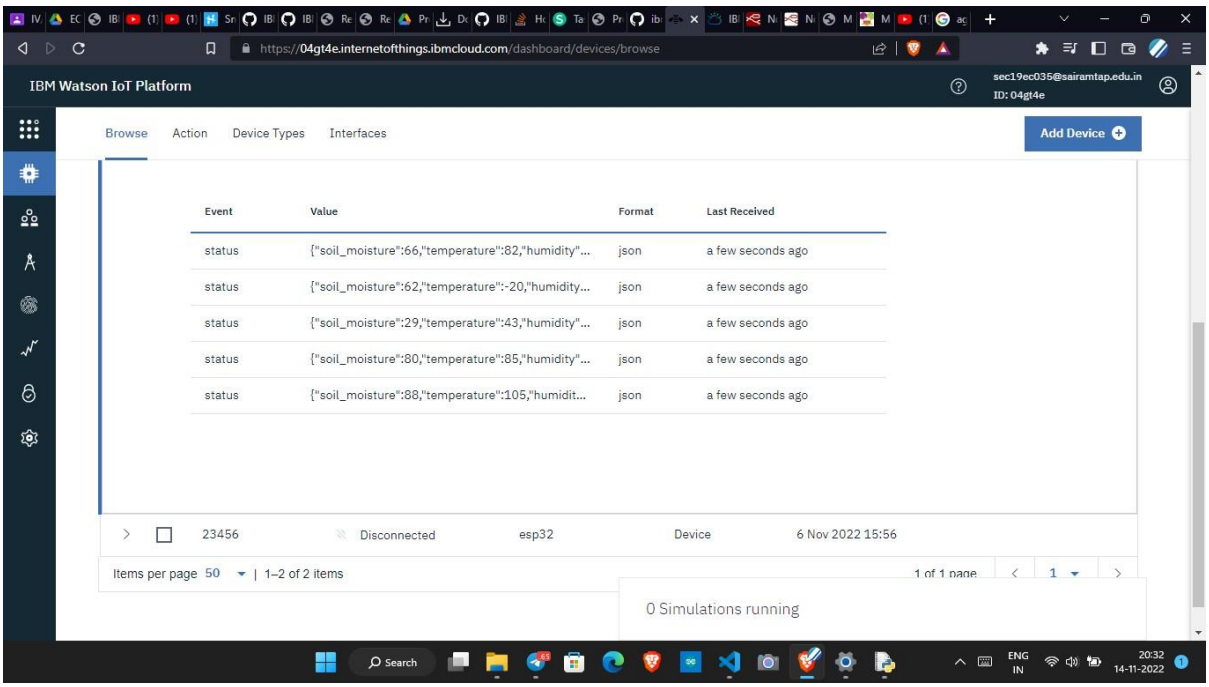
Then the appropriate device credentials obtained earlier are entered into the node to connect and fetch device telemetry to Node-Red.



The Node-Red also receive data from the Open Weather API by HTTP GET request.

An inject trigger is added to perform HTTP request for every certain interval.

HTTP request node is configured with URL we saved before.


https://04gt4e.internetofthings.ibmcloud.com/dashboard/devices/browse
IBM Watson IoT Platform
sec19ec035@sairamtap.edu.in
ID: 04gt4e
Browse
Action
Device Types
Interfaces
Add Device
Event
Value
Format
Last Received
status
{"soil_moisture":66,"temperature":82,"humidity"...
json
a few seconds ago
status
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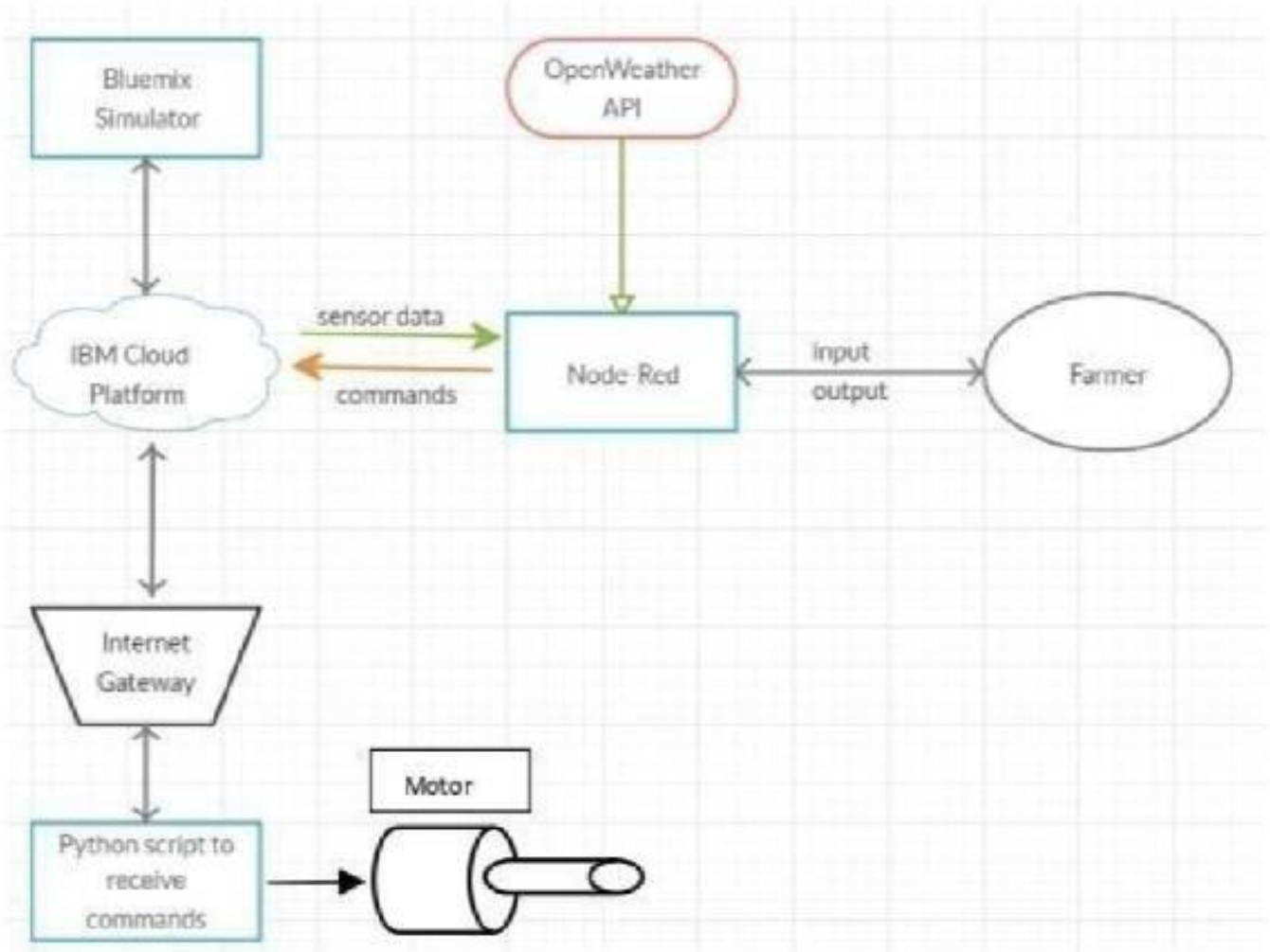
json
a few seconds ago
23456
Disconnected
esp32
Device
6 Nov 2022 15:56
Items per page 50
1–2 of 2 items
1 of 1 page
1
0 Simulations running
Search
ENG
IN
20:32
14-11-2022

FLOW CHART:


Bluemix
Simulator
OpenWeather
API
IBM Cloud
Platform
sensor data
commands
Node-Red
input
output
Farmer
Internet
Gateway
Motor
Python script to
receive
commands