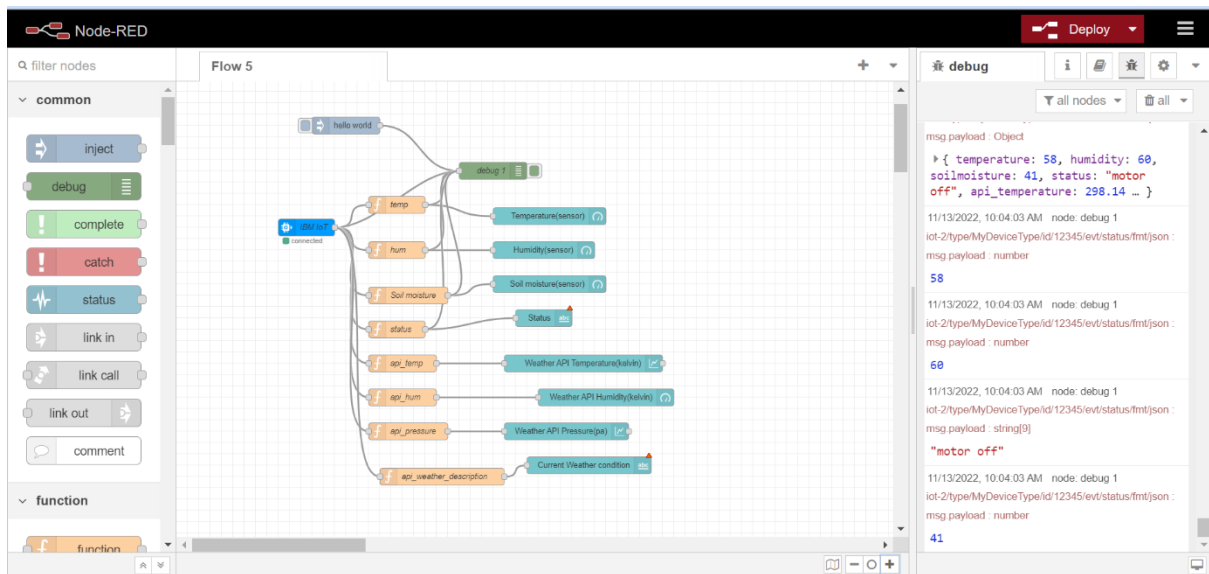


Project Development

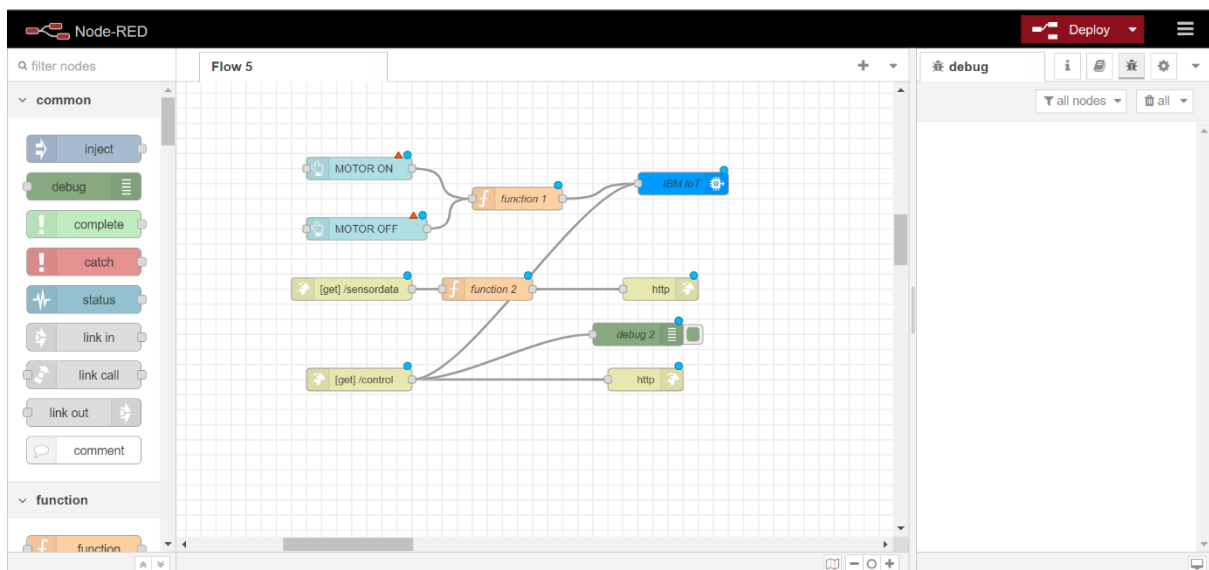
Delivery of Sprint-2

Date	5 NOV 2022
Team ID	PNT2022TMID26547
Project Name	Project -Smart farmer-IOT enabled smart Farming Application

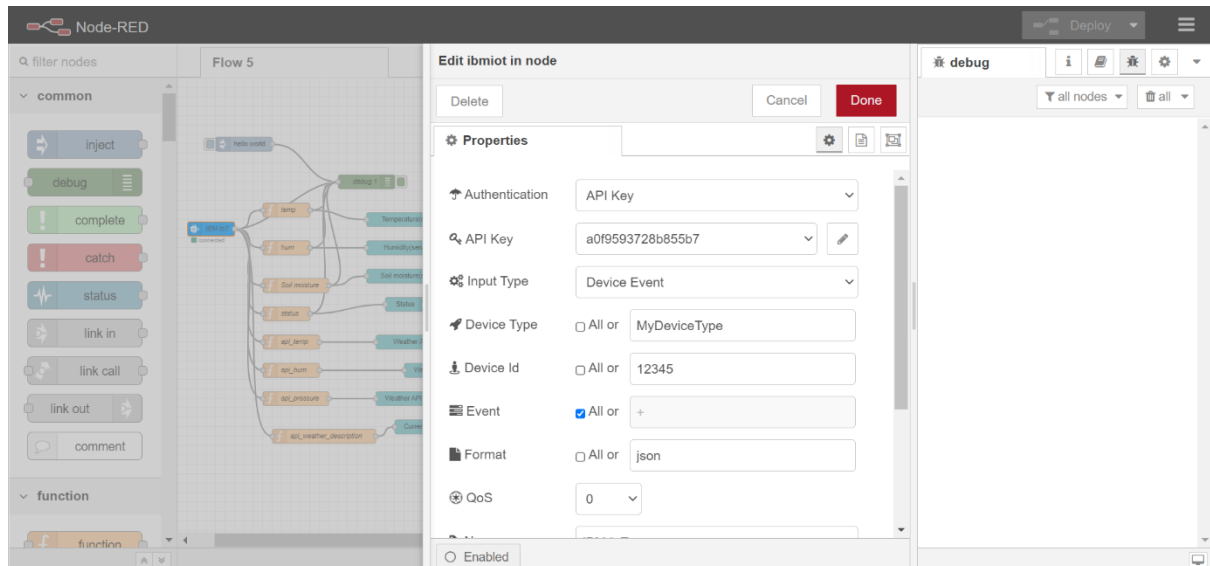
Flow:1



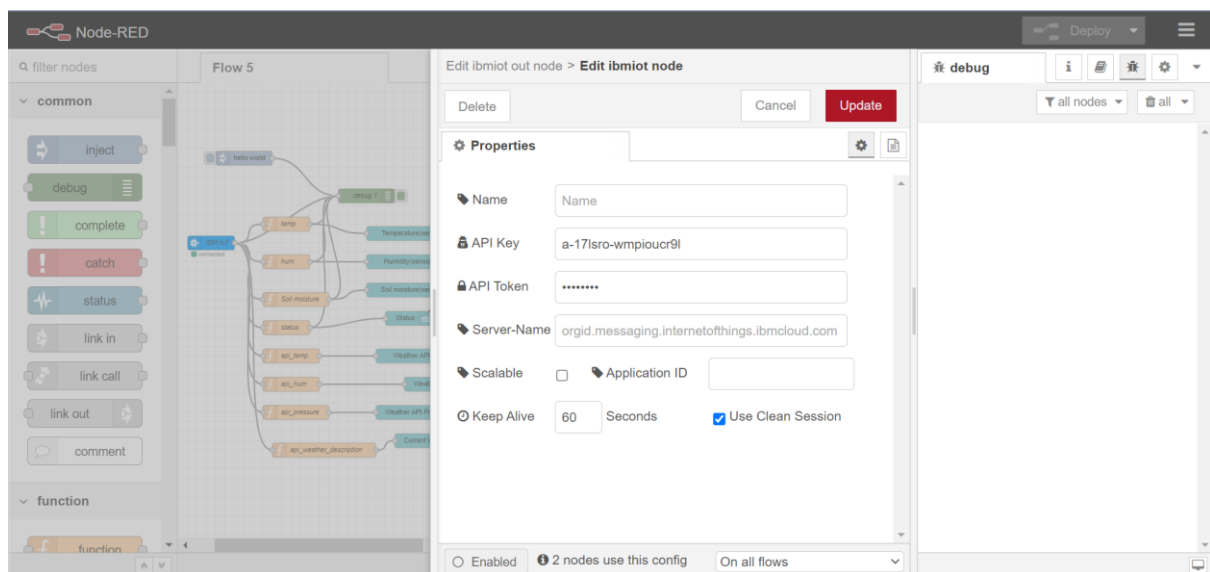
Flow:2



Flow:1 Configuring All Nodes With IBM IOT Platform



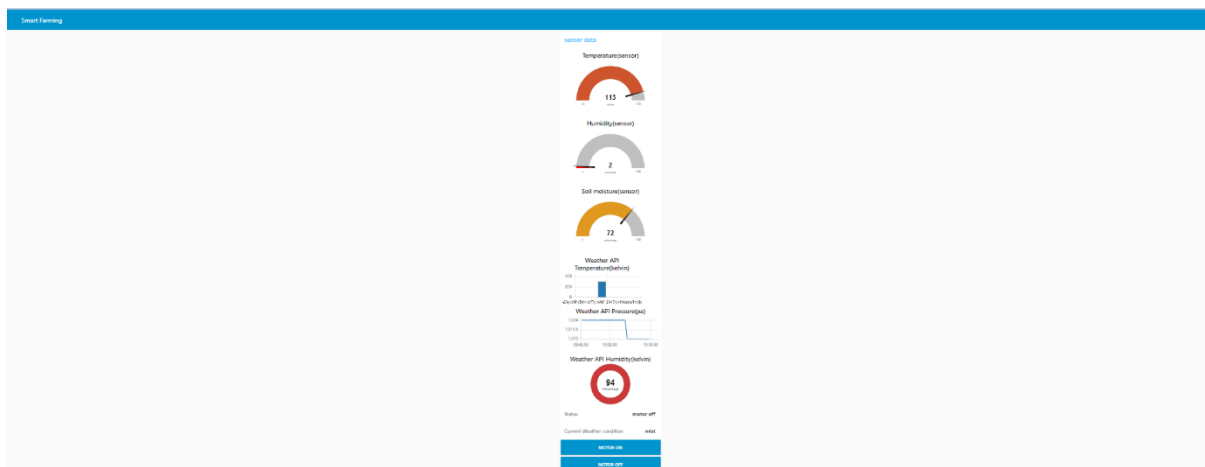
Flow:2 Configuring All Nodes With IBM IOT Platform



Execution of Python Program

```
C:\Program Files\WindowsApps\PythonSoftwareFoundation.Python.3.8_3.8.2800.0_x64_qbz5n2kfra8p0\python3.8.exe
erature': 298.14, 'api_pressure': 1013, 'api_humidity': 94, 'api_weather_description': 'mist'}
Published data Successfully: %s {'temperature': 2, 'humidity': 93, 'soilmoisture': 52, 'status': 'motor off', 'api_tempe
rature': 298.14, 'api_pressure': 1013, 'api_humidity': 94, 'api_weather_description': 'mist'}
Published data Successfully: %s {'temperature': 100, 'humidity': 100, 'soilmoisture': 63, 'status': 'motor off', 'api_te
mperature': 298.14, 'api_pressure': 1013, 'api_humidity': 94, 'api_weather_description': 'mist'}
Published data Successfully: %s {'temperature': -3, 'humidity': 9, 'soilmoisture': 28, 'status': 'motor off', 'api_tempe
rature': 298.14, 'api_pressure': 1013, 'api_humidity': 94, 'api_weather_description': 'mist'}
Published data Successfully: %s {'temperature': 96, 'humidity': 93, 'soilmoisture': 24, 'status': 'motor off', 'api_tempe
rature': 298.14, 'api_pressure': 1013, 'api_humidity': 94, 'api_weather_description': 'mist'}
Published data Successfully: %s {'temperature': -5, 'humidity': 64, 'soilmoisture': 99, 'status': 'motor off', 'api_tempe
rature': 298.14, 'api_pressure': 1013, 'api_humidity': 94, 'api_weather_description': 'mist'}
Published data Successfully: %s {'temperature': 8, 'humidity': 40, 'soilmoisture': 24, 'status': 'motor off', 'api_tempe
rature': 298.14, 'api_pressure': 1013, 'api_humidity': 94, 'api_weather_description': 'mist'}
Published data Successfully: %s {'temperature': 15, 'humidity': 25, 'soilmoisture': 70, 'status': 'motor off', 'api_tempe
rature': 298.14, 'api_pressure': 1013, 'api_humidity': 94, 'api_weather_description': 'mist'}
Published data Successfully: %s {'temperature': 116, 'humidity': 59, 'soilmoisture': 65, 'status': 'motor off', 'api_tem
perature': 298.14, 'api_pressure': 1013, 'api_humidity': 94, 'api_weather_description': 'mist'}
Published data Successfully: %s {'temperature': 72, 'humidity': 71, 'soilmoisture': 13, 'status': 'motor off', 'api_tempe
rature': 298.14, 'api_pressure': 1013, 'api_humidity': 94, 'api_weather_description': 'mist'}
Published data Successfully: %s {'temperature': 104, 'humidity': 82, 'soilmoisture': 90, 'status': 'motor off', 'api_tem
perature': 298.14, 'api_pressure': 1013, 'api_humidity': 94, 'api_weather_description': 'mist'}
Published data Successfully: %s {'temperature': 63, 'humidity': 82, 'soilmoisture': 98, 'status': 'motor off', 'api_tempe
rature': 298.14, 'api_pressure': 1013, 'api_humidity': 94, 'api_weather_description': 'mist'}
Published data Successfully: %s {'temperature': 27, 'humidity': 57, 'soilmoisture': 21, 'status': 'motor off', 'api_tempe
rature': 298.14, 'api_pressure': 1013, 'api_humidity': 94, 'api_weather_description': 'mist'}
Published data Successfully: %s {'temperature': 107, 'humidity': 57, 'soilmoisture': 44, 'status': 'motor off', 'api_tem
perature': 298.14, 'api_pressure': 1013, 'api_humidity': 94, 'api_weather_description': 'mist'}
Published data Successfully: %s {'temperature': -15, 'humidity': 67, 'soilmoisture': 41, 'status': 'motor off', 'api_tem
perature': 298.14, 'api_pressure': 1013, 'api_humidity': 94, 'api_weather_description': 'mist'}
```

Web UI Output



The screenshot displays the IBM Watson IoT Platform interface. At the top, the header shows the user's email (211719106081@smartinternz.com) and ID (17fare). The main navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A sidebar on the left contains icons for various functions. The central area shows a list of devices, with one device (ID 12345) selected and showing its 'Connected' status. Below this, a table lists recent events, showing the 'status' field with values like '["temperature":82,"h...'. A modal window titled 'Event Payload' is open, displaying the JSON payload for a specific event. The payload includes fields for temperature, humidity, soilmoisture, status (motor off), api temperature, api pressure, api humidity, and api weather description (mist).

IBM Watson IoT Platform

211719106081@smartinternz.com
ID: 17fare

Browse Action Device Types Interfaces

Device ID Status

12345 Connected

Identity Device Information

The recent events listed show the live stream

Event	Value
status	["temperature":82,"h...
status	["temperature":74,"h...
status	["temperature":7,"hur...
status	["temperature":72,"h...
status	["temperature":102,"h...

Event Payload

Event Name status
Time Received Nov 13, 2022 10:30 AM

```

1 {
2   "temperature": 118,
3   "humidity": 84,
4   "soilmoisture": 16,
5   "status": "motor off",
6   "api_temperature": 209.14,
7   "api_pressure": 1013,
8   "api_humidity": 84,
9   "api_weather_description": "mist"
10 }
```

Added By
211719106081@smartinternz.com

Add Device