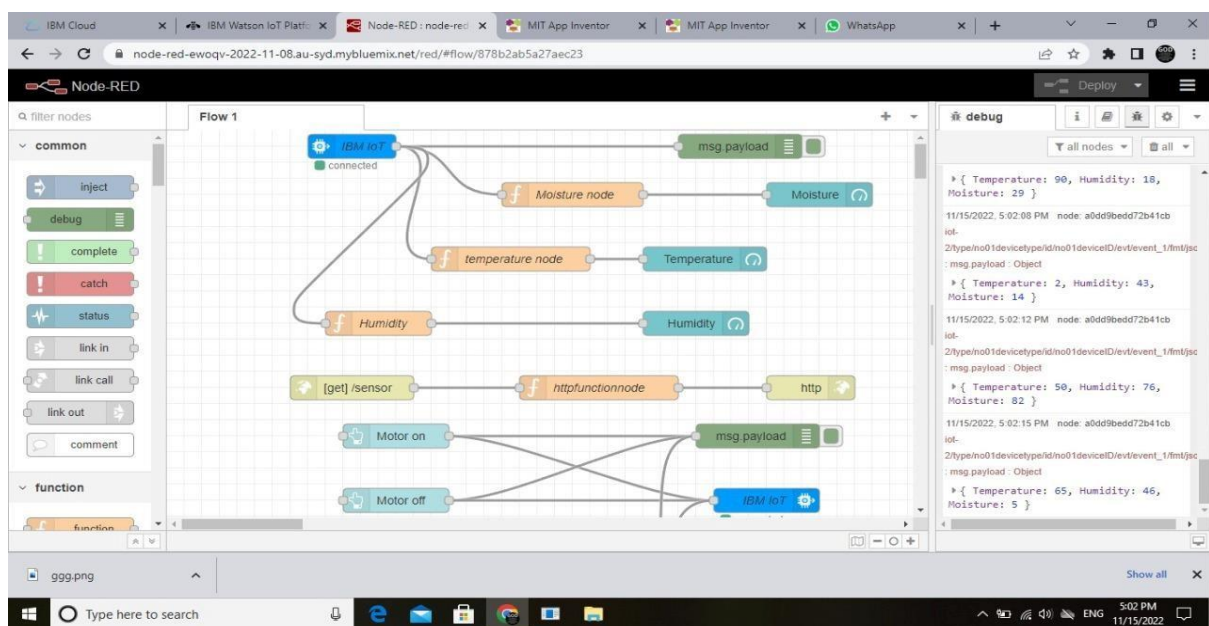
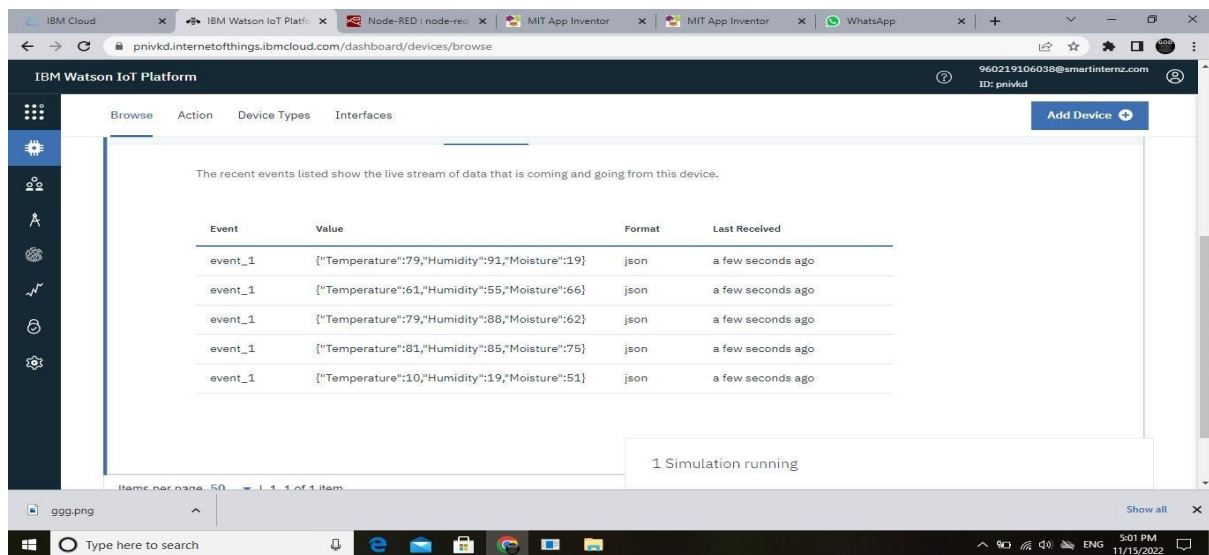
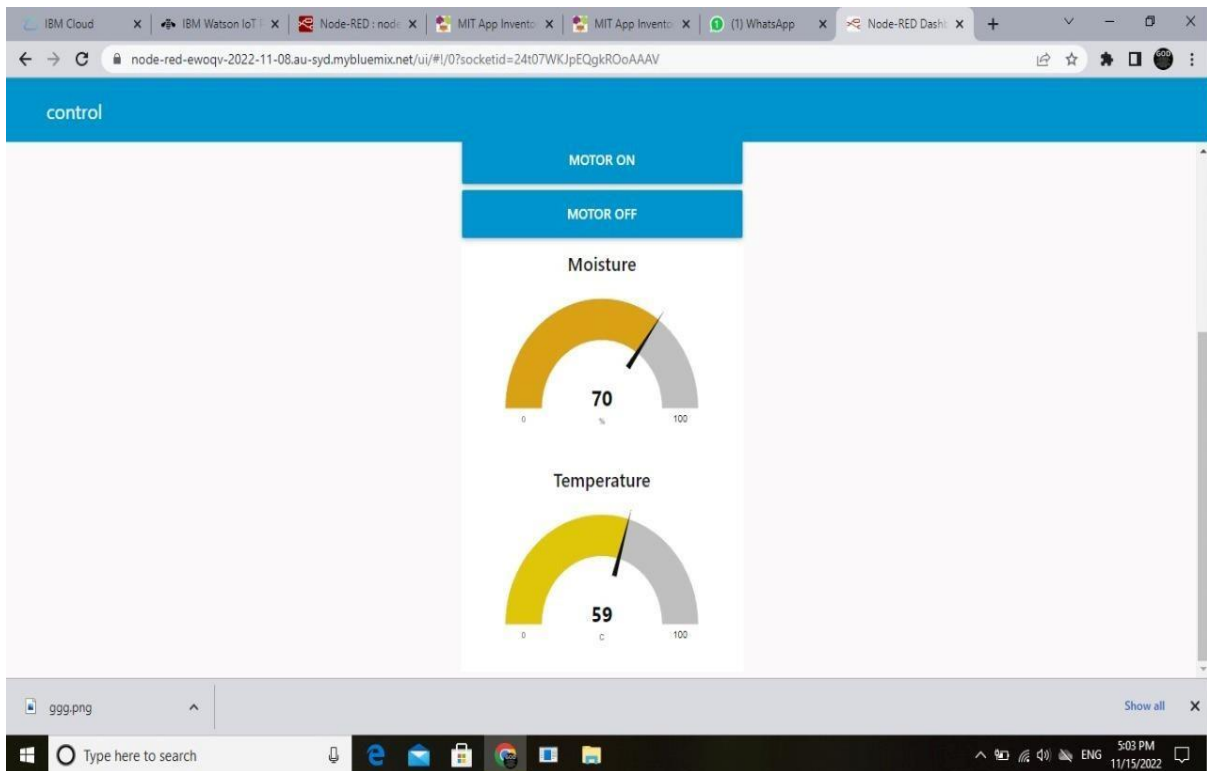
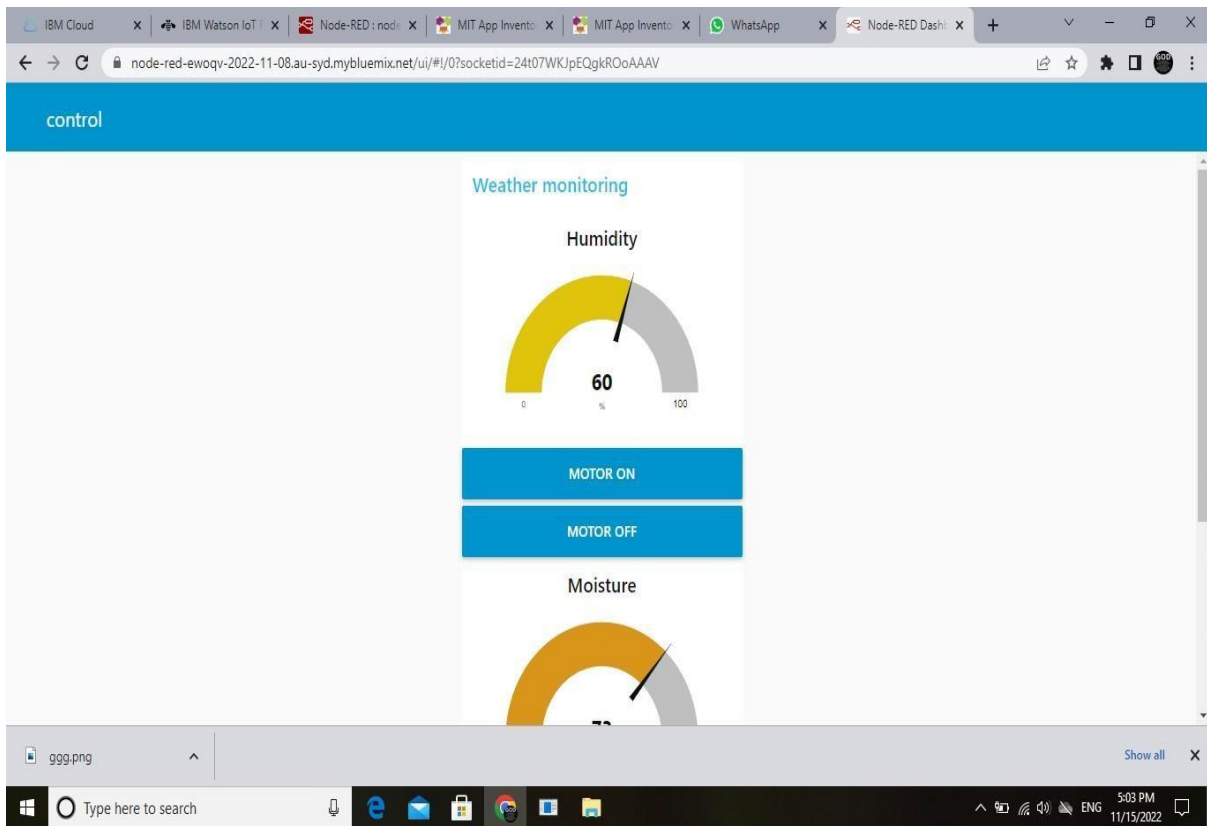


SPRINT - 4

Date	17 November 2022
Team ID	PNT2022TMID34110
Project Name	SmartFarmer-IoT Enabled Smart Farming Application

Connecting the developed application with Node-Red





Node-RED interface showing a flow for monitoring sensors and controlling a motor. The flow includes an IBM IoT node connected to a msg.payload node, which then branches into three function nodes: Moisture node, temperature node, and Humidity. These function nodes connect to corresponding sensor nodes (Moisture, Temperature, Humidity). Below these, there is a [get] /sensor node connected to an httpfunctionnode, which connects to an http node. At the bottom, there are Motor on and Motor off nodes connected to msg.payload nodes, which then connect to an IBM IoT node.

The debug console shows the following log entries:

```
"motoroff"
11/15/2022, 5:05:26 PM node: 8cc0b8ac70557098
msg.payload: string[7]
"motoron"
11/15/2022, 5:05:27 PM node: 8cc0b8ac70557098
msg.payload: string[8]
"motoroff"
11/15/2022, 5:05:29 PM node: 8cc0b8ac70557098
msg.payload: string[7]
"motoron"
11/15/2022, 5:05:30 PM node: 8cc0b8ac70557098
msg.payload: string[8]
"motoroff"
11/15/2022, 5:05:31 PM node: 8cc0b8ac70557098
msg.payload: string[7]
"motoron"
11/15/2022, 5:05:31 PM node: 8cc0b8ac70557098
msg.payload: string[8]
"motoroff"
```

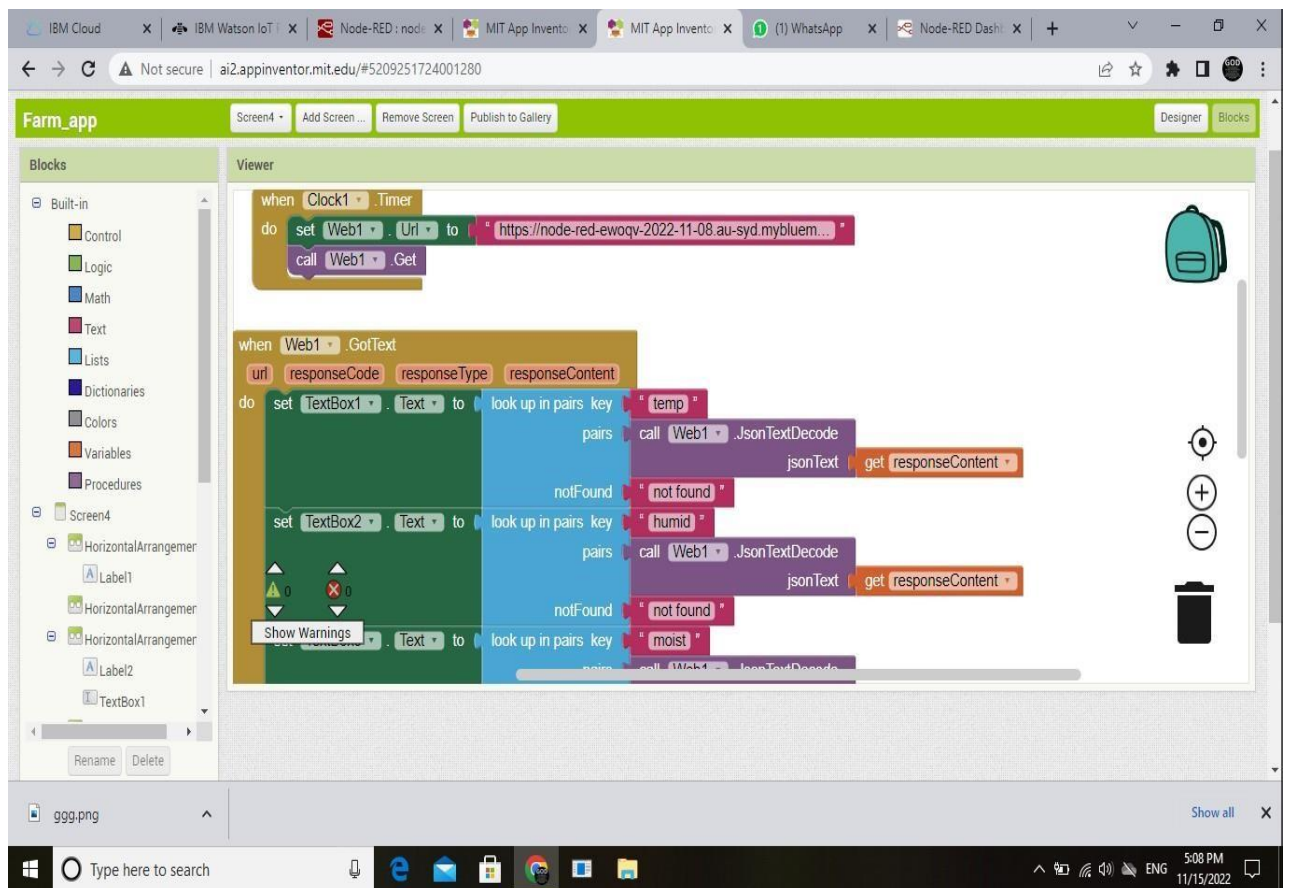
MIT App Inventor interface showing a mobile app for weather monitoring. The app is titled "WEATHER MONITORING" and displays a circular gauge with icons for weather, a plant, and a house. Below the gauge, there are three input fields for Temperature, Humidity, and Soil Moisture. At the bottom, there are two buttons: "MOTOR ON" (red) and "MOTOR OFF" (red).

The right sidebar shows the design view with a list of components and their properties. The components include:

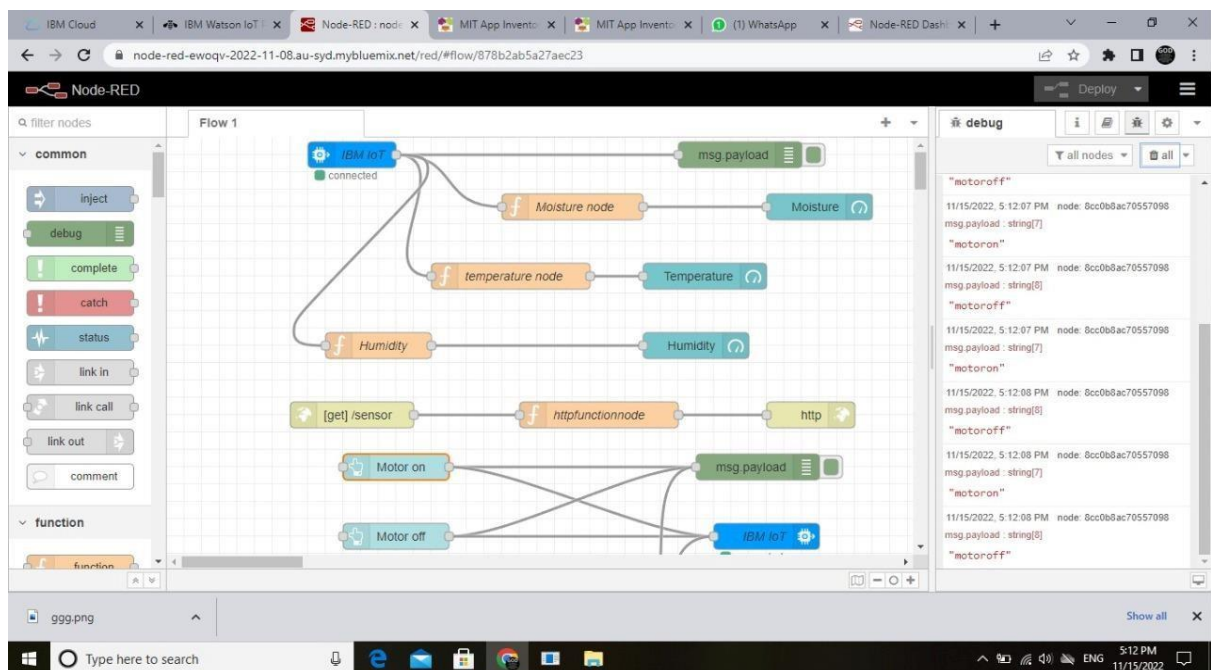
- Label1
- HorizontalArranger
- Label2
- TextBox1
- HorizontalArranger
- Label3
- TextBox2
- HorizontalArranger
- Label4
- TextBox3
- HorizontalArranger
- Button1
- HorizontalArranger
- Button2

The properties panel for the selected component (HorizontalArranger) shows the following settings:

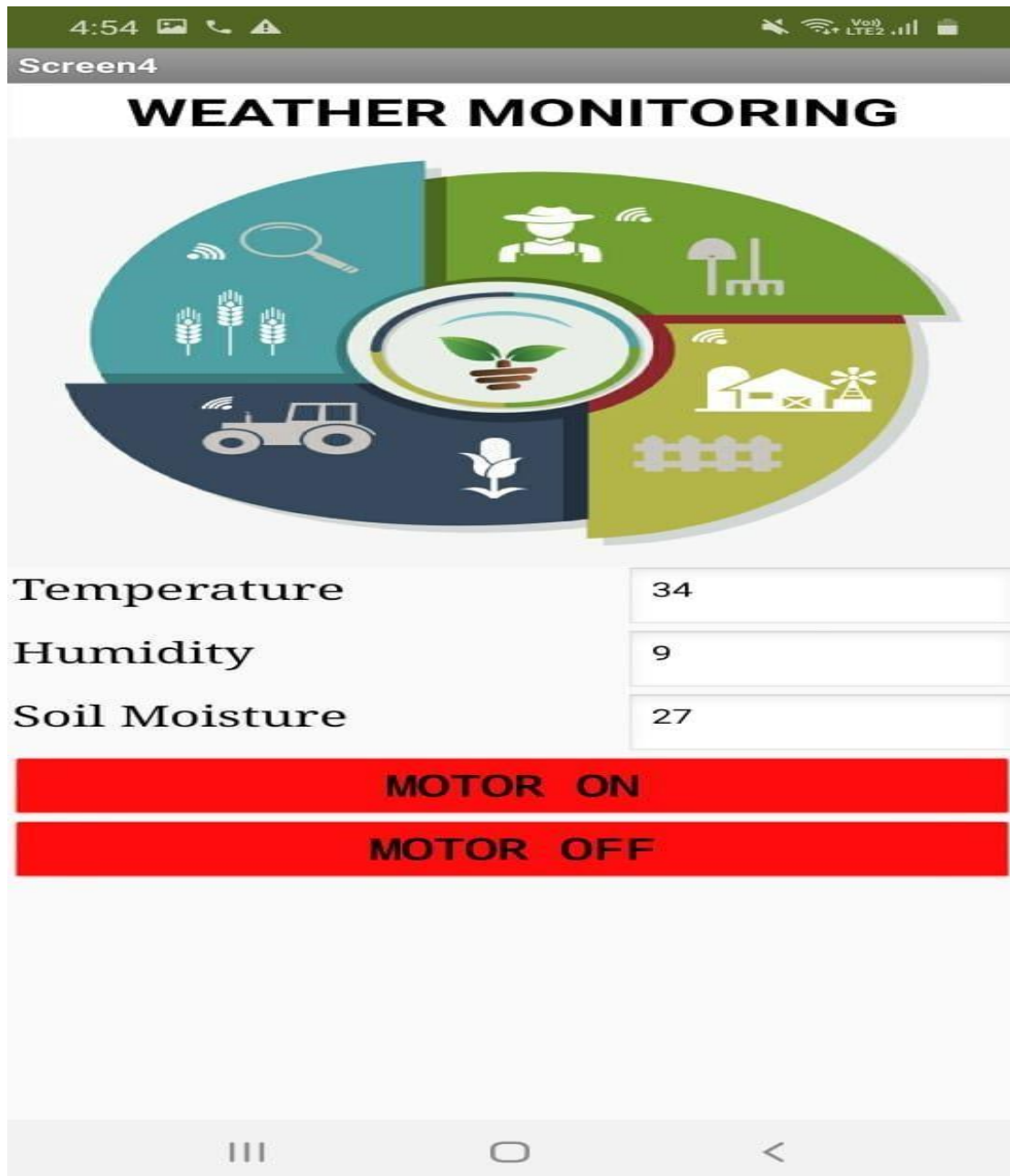
- AlignHorizontal: Left
- AlignVertical: Top
- BackgroundColor: Default
- BackgroundImage: None
- BigDefaultText: ☐
- CloseScreenAnimation: Default
- HighContrast: ☐
- OpenScreenAnimation: Default
- ScreenOrientation: Unspecified
- Scrollable: ☐
- ShowStatusBar: ☒
- Title: Screen4



Testing the developed application



When we click the motor on button, the command is delivered to the Node-Red.



Thus the sensor readings are captured in the developed application.

REPORTS:

IBM Cloud x IBM Watson x Node-RED x MIT App Inve x MIT App Inve x (1) WhatsApp x Node-RED D x SIESFA board x

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Connecting the developed application with Node-RED

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SIESFA-17 3 AE

Testing the developed application

APP DEVELOPMENT

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Plan a sprint by dragging the sprint footer down below some issues, or by dragging issues here.

+ Create issue

Insights SIESFA Sprint 4

Sprint commitment

8 points Under target of 12 - 14 points

13 Average points completed over the last 3 sprints

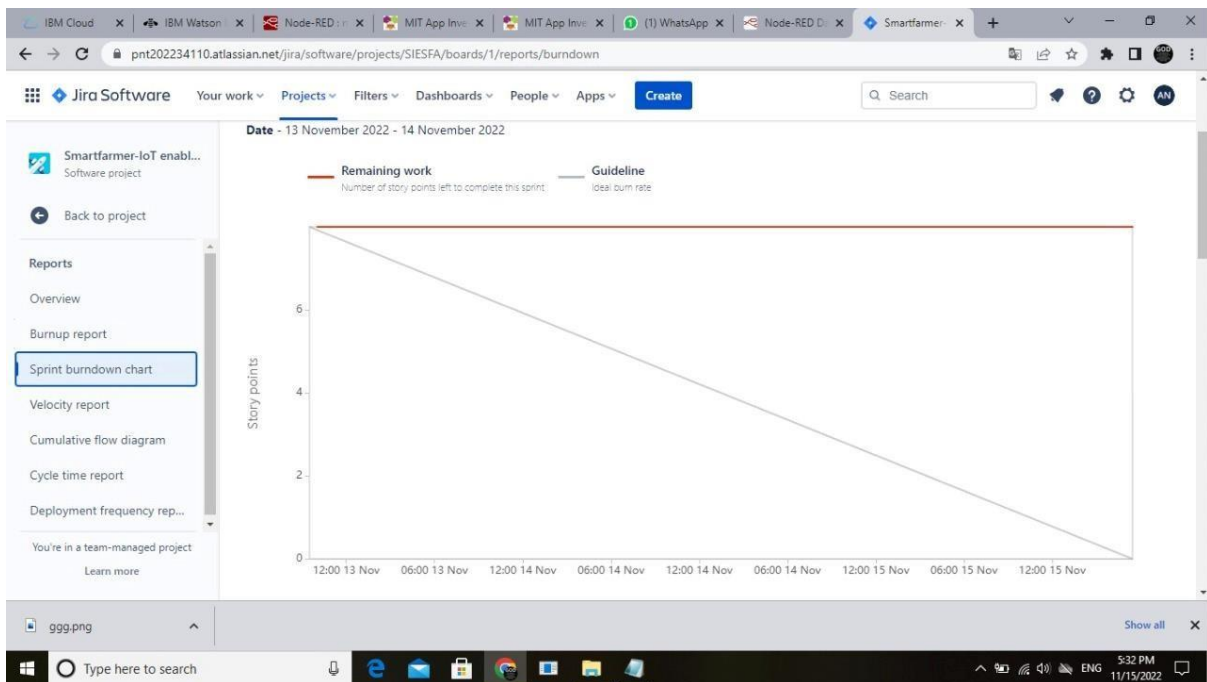
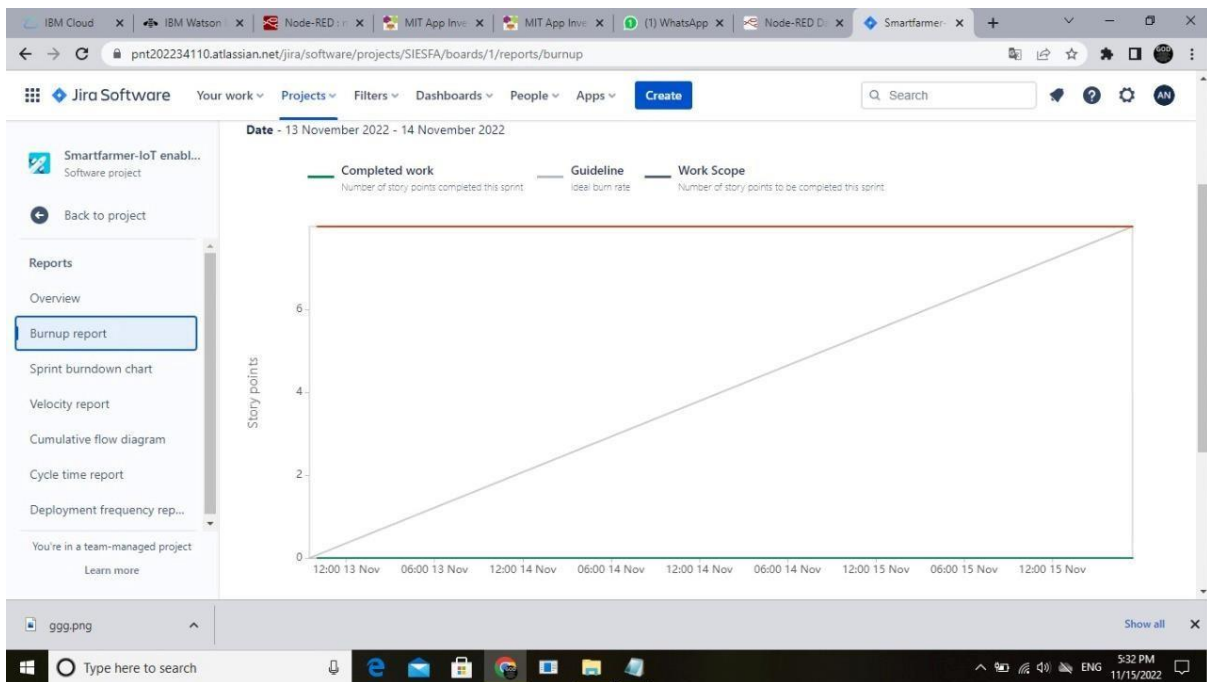
Issue type breakdown

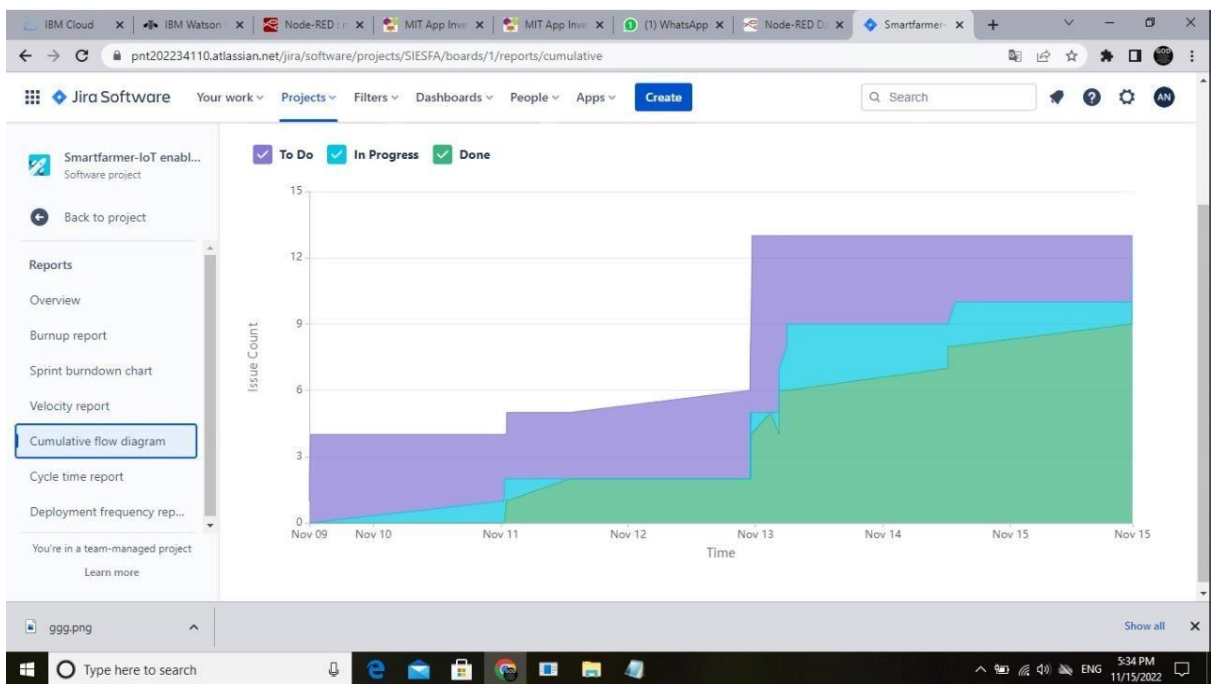
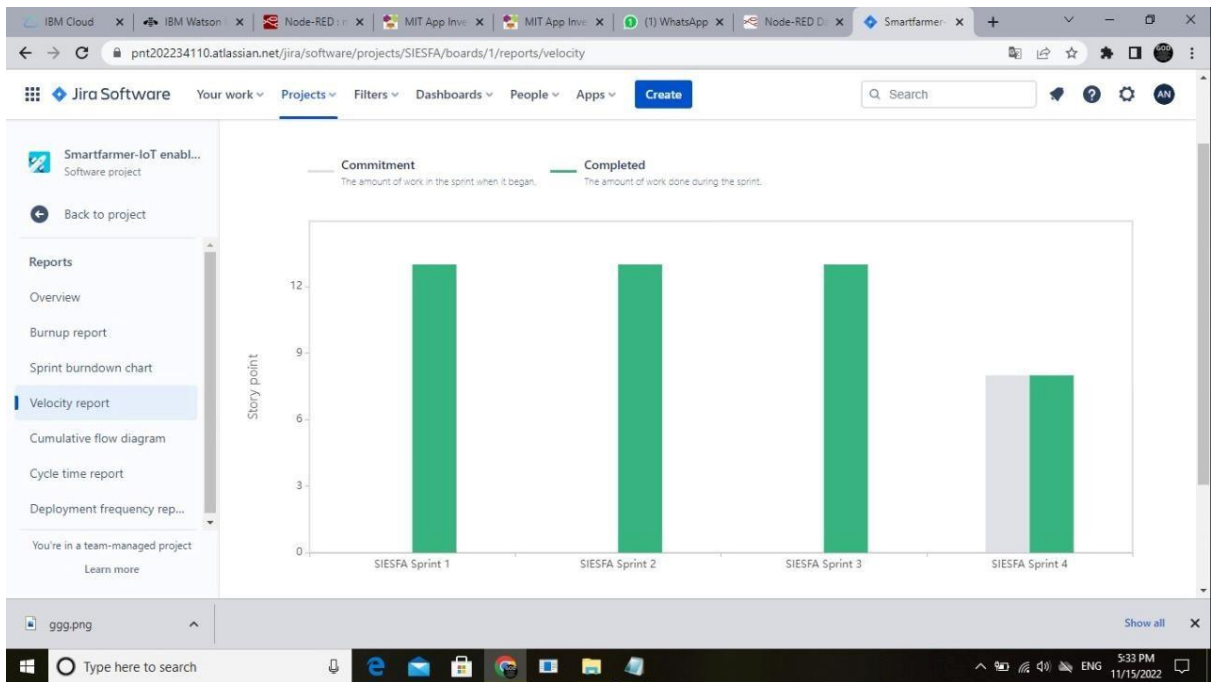
Your top issue type to focus on in this sprint.

Story

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> SIESFA-6 Login				DONE
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> SIESFA-16 App development				DONE
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