

Sprint 4

Web UI

Date	14 November 2022
Team ID	PNT2022TMID20124
Project name	SmartFarming- IoT Enabled Smart Farming Application

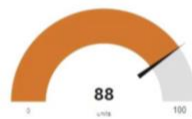
Small YouTube Maps Untitled mural • IoT Untitled mural • en... syed-2001/Syed_Ka... (3) WhatsApp IBM Developer Api - Fas...

New dashboard

IoT UI



Soil Moisture



Humidity



New dashboard

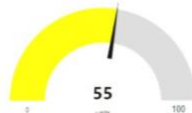
IoT UI



Soil Moisture



Humidity



```
File Edit Shell Debug Options Window Help
ity': 72}
Published data Successfully: %s ('soil_moisture': 44, 'temperature': 93, 'humidit
ty': 40)
Published data Successfully: %s ('soil_moisture': 83, 'temperature': -8, 'humidi
ty': 88)
Published data Successfully: %s ('soil_moisture': 7, 'temperature': 50, 'humidit
y': 0)
Published data Successfully: %s ('soil_moisture': 9, 'temperature': 29, 'humidit
y': 53)
Published data Successfully: %s ('soil_moisture': 82, 'temperature': 76, 'humidi
ty': 64)
Published data Successfully: %s ('soil_moisture': 13, 'temperature': 109, 'humid
ity': 39)
Message received from IBM IoT Platform: motoron ←
Motor is switched on

Published data Successfully: %s ('soil_moisture': 67, 'temperature': -17, 'humid
ity': 81)
Message received from IBM IoT Platform: motoroff ←
Motor is switched OFF

Published data Successfully: %s ('soil_moisture': 78, 'temperature': 4, 'humidit
y': 54)
Published data Successfully: %s ('soil_moisture': 47, 'temperature': 30, 'humidi
ty': 66)
Published data Successfully: %s ('soil_moisture': 15, 'temperature': 113, 'humid
ity': 18)
Published data Successfully: %s ('soil_moisture': 97, 'temperature': 59, 'humidi
ty': 66)
```

Explanation :

- As we open the UI in the dashboard, it displays the output of the node red that we connected in node red application.
- That Application runs through the python code which is connected with IBM IoT Watson Platform.
- In the UI we can view Live result and When we click on the Motor ON and OFF button.
- It will generate a message and get runs in the Python code and displayed in Python script(which is given above for example)