SPRINT 1 REPORT

SMARTFARMER – IOT ENABLED SMART FARMING APPLICATION



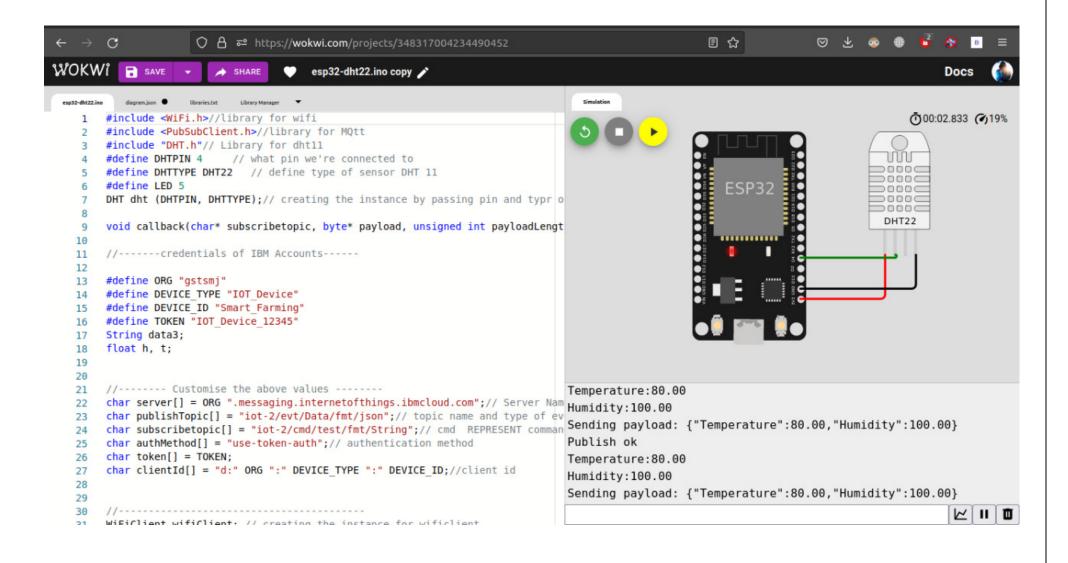
- TEAM LEADER : MUGESHWARAN G
- TEAM MEMBER: ISRAVEL KEWIN CLINT P
- TEAM MEMBER: BLESSWIN.K.SAMUEL
- TEAM MEMBER: VIJAY S

Project Tracker

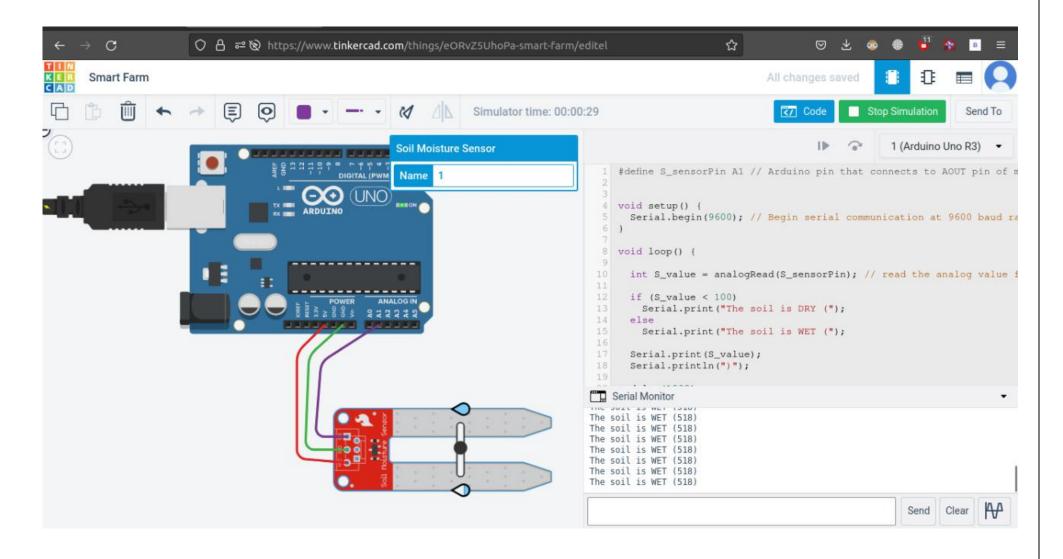
Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned	Sprint Release Date (Actual)
					End Date)	
Sprint-1	15	5 Days	26 Oct 2022	30 Oct 2022	15	30 Oct 2022
Sprint-2	15	7 Days	31 Oct 2022	06 Nov 2022		07 Nov 2022
Sprint-3	15	6 Days	07 Nov 2022	12 Nov 2022		13 Nov 2022
Sprint-4	15	6 Days	13 Nov 2022	18 Nov 2022		18 Nov 2022 – 19 Nov 2022

S.NO	Tools & Technology Used		
1	Wokwi Hardware Simulation		
2	Tinkercad Hardware Simulation		
3	IBM Watson IOT Platform		
4	IOT Monitor Board		
5	Python Hardware Simulation		
6	Connecting Python with IBM Cloud		
7	Connecting Wokwi with IBM Cloud		

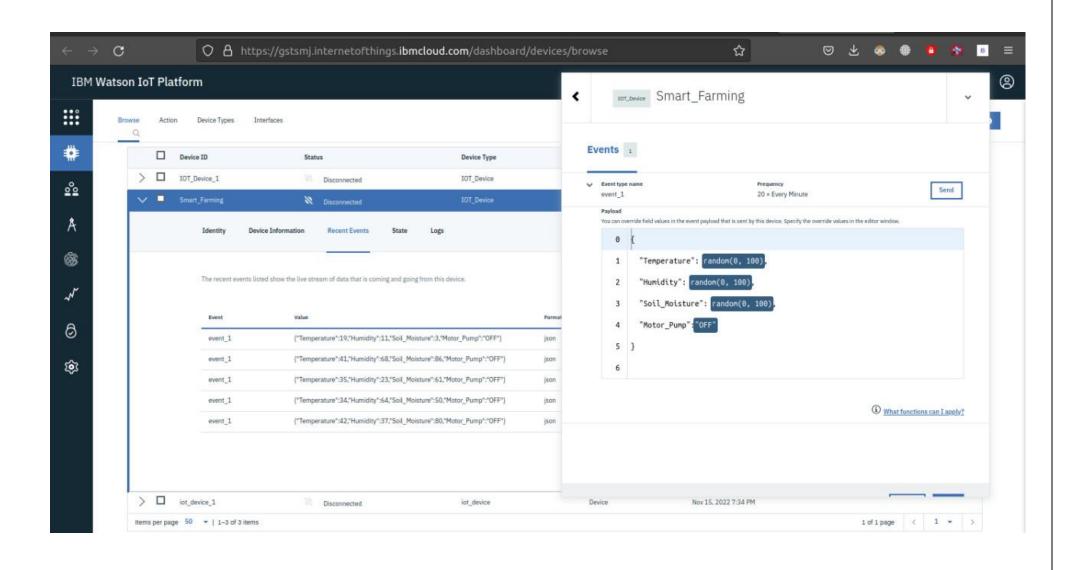
Wokwi Hardware Simulation



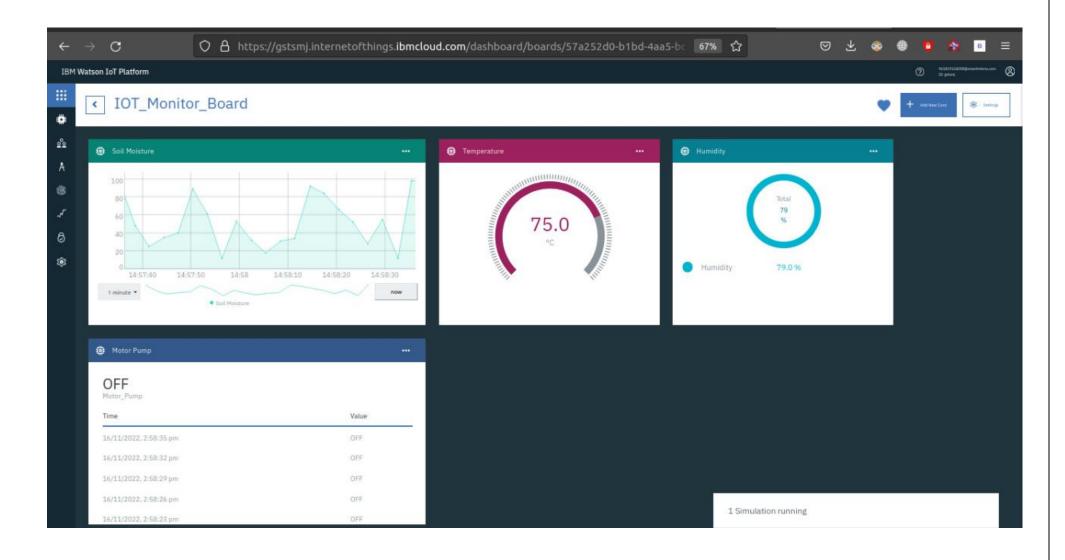
Tinkercad Hardware Simulation



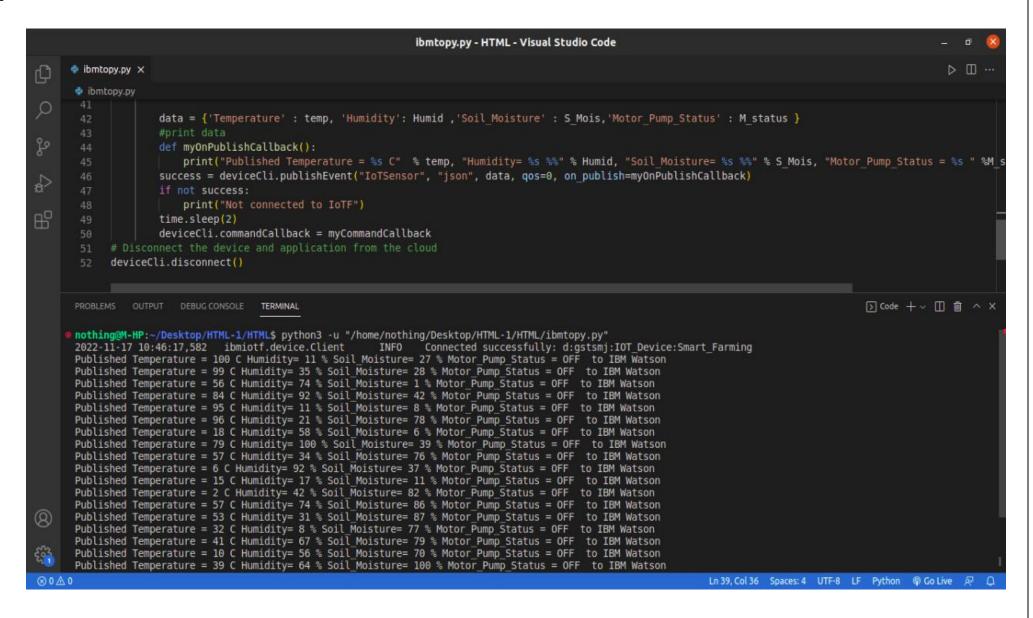
Ibm Watson IOT Platform



IOT Monitor Board

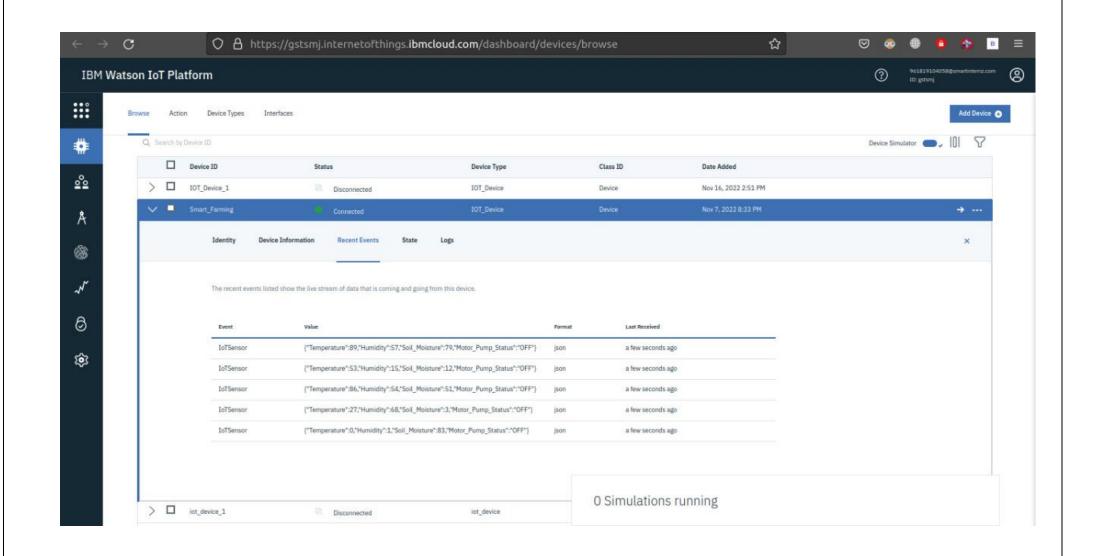


Python Hardware Simulation



Connecting Python with IBM Cloud

```
ibmtopy.py - HTML - Visual Studio Code
ibmtopy.py X
ibmtopy.py
 13 M status="OFF"
 14 def myCommandCallback(cmd):
          print("Command received: %s" % cmd.data['Motor Control'])
          status=cmd.data['Motor Control']
          global M status
          if status=='Motor ON':
              M status="ON"
              print("Motor is ON")
              M status="OFF"
              print("Motor is OFF")
                                                                                                                                      [ ] Code + ~ [ ] fill ∧ ×
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
nothing@M-HP:~/Desktop/HTML-1/HTML$ python3 -u "/home/nothing/Desktop/HTML-1/HTML/ibmtopy.py"
2022-11-17 10:33:19,319 ibmiotf.device.Client INFO Connected successfully: d:gstsmj:IOT Device:Smart Farming
Published Temperature = 0 C Humidity= 1 % Soil Moisture= 83 % Motor Pump Status = OFF to IBM Watson
Published Temperature = 27 C Humidity= 68 % Soil Moisture= 3 % Motor Pump Status = OFF to IBM Watson
Published Temperature = 86 C Humidity= 54 % Soil Moisture= 51 % Motor Pump Status = OFF to IBM Watson
Published Temperature = 53 C Humidity= 15 % Soil Moisture= 12 % Motor Pump Status = OFF to IBM Watson
Published Temperature = 89 C Humidity= 57 % Soil Moisture= 79 % Motor Pump Status = OFF to IBM Watson
```



Connecting Wokwi with IBM Cloud

