PROJECT DEVELOPMENT PHASE

SPRINT DELIVERY - 2

Team ID	PNT2022TMID52856
Project Name	SmartFarmer - IoT Enabled Smart Farming Application

BACKLOG

Release	User Story Number	User Story / Task	Story points	Priority	Team members
Sprint-2	USN-10	As a user, I can reach out to support staff using helpline chat in case of any queries and receive service agent details in case of service requirement.	2	High	Priya Dharshini C Vishalini A J
Sprint-2	USN-12	As a user, I will receive notification in case of sensor fault / disruption in power supply and compliant will be filed automatically.	1	High	Ranga Krishna Prasadh H Sathish P
Sprint-2	USN-13	As a user, I can remotely access the motorswitch to control irrigation.	2	High	Ranga Krishna Prasadh H Sathish P
Sprint-2	USN-26	As an admin, I can access sensor data in Watson.	3	High	Priya Dharshini C Vishalini A J
Sprint-2	USN-27	As an admin, I can view the output visualization in Node-Red UI.	5	High	Ranga Krishna Prasadh H Sathish P
Sprint-2	USN-16	As an admin, I can access the server ,check for errors in sensor reading and forwards details to helpline admin.	1	High	Priya Dharshini C Vishalini A J
Sprint-2	USN-17	As an admin, I can manage and organize customer details.	2	High	Ranga Krishna Prasadh H Sathish P

Sprint-2	USN-22	As a helpline admin, I can access server, check for errors/ helpline query notifications/complaints etc., and maintain service agent availability record.	1	High	Priya Dharshini C Vishalini A J
Sprint-2	USN-25	As a helpline admin, I can register new complaint on behalf of the in case of abnormalsensor conditions.	2	High	Ranga Krishna Prasadh H Vishalini A J
Sprint-2	USN-28	As an admin, can manage and organize customer details	2	High	Priya Dharshini C Sathish P

Projects / SmartFarmer - IoT Enabled Smart Farming Application

Backlog   ...

🔍 👤👤👤 SP 👤+   Epic ⌄   📈 Insights

⌄ SIESFA Sprint 2 4 Oct – 1 Nov (9 issues)   0 0 19   Complete sprint ...

  🔲 SIESFA-34 ESP32 to Watson MQTT Publishing   CLOUD   3   DONE ⌄ 👤

  🔲 SIESFA-10 As a user, I can reach out to support staff using helpline chat in case of any queries. and receive service agent details in case of ...   DASHBOARD   2   DONE ⌄ 👤

  🔲 SIESFA-13 As a user, I can remotely access the motor switch to control irrigation.   DASHBOARD OPTIONS   2   DONE ⌄ SP

  🔲 SIESFA-12 As a user, I will receive notification in case of sensor fault / disruption in power supply ,and compliant will be filed automatically.   DASHBOARD   1   DONE ⌄ 👤

  🔲 SIESFA-35 Watson to NodeRed Payload   CLOUD   5   DONE ⌄ 👤

  🔲 SIESFA-16 As an admin, I can access the server, check for errors in sensor reading and forwards details to helpline admin.   DASHBOARD   1   DONE ⌄ 👤

  🔲 SIESFA-22 As a helpline admin, I can access server, check for errors/ helpline query notifications/ complaints etc., and maintai...   COMPLAINT MANAGEMENT   1   DONE ⌄ 👤

  🔲 SIESFA-25 As a helpline admin, I can register new complaint on behalf of the incase of abnormal sensor conditions.   COMPLAINT MANAGEMENT   2   DONE ⌄ 👤

  🔲 SIESFA-17 As an admin, I can manage and organize customer details.   DASHBOARD   2   DONE ⌄ 👤

ROADMAP

Sprints	T	NOV	DEC	JAN '23
	SIESFA Sprint 2	SIESFA Sprint 1,...		
SIESFA-26 Registration				
SIESFA-27 Login				
SIESFA-28 Forgot password				
SIESFA-29 Dashboard				
SIESFA-30 Dashboard options				
SIESFA-31 Dashboard				
SIESFA-32 Service log				
SIESFA-33 Complaint Management				
SIESFA-37 Integration				
SIESFA-38 Cloud				
SIESFA-39 Application				

BOARD

SIESFA Sprint 2

0 days remaining **Complete sprint** ...

GROUP BY None ⌄   Insights

Epic ⌄

TO DO	IN PROGRESS	DONE 9 ISSUES ✓
		ESP32 to Watson MQTT Publishing
		CLOUD
		SIESFA-34 ✓ 3
		As a user, I can reach out to support staff using helpline chat in case of any queries. and receive service agent details in case of service requirement.
		DASHBOARD
		SIESFA-10 ✓ 2
		As a user, I can remotely access the motor switch to control irrigation.

SPRINT BURN DOWN CHART

Date - November 1st,2022 - November 7th , 2022

Legend: **Remaining work** — Number of story points left to complete this sprint; **Guideline** — Ideal burn rate
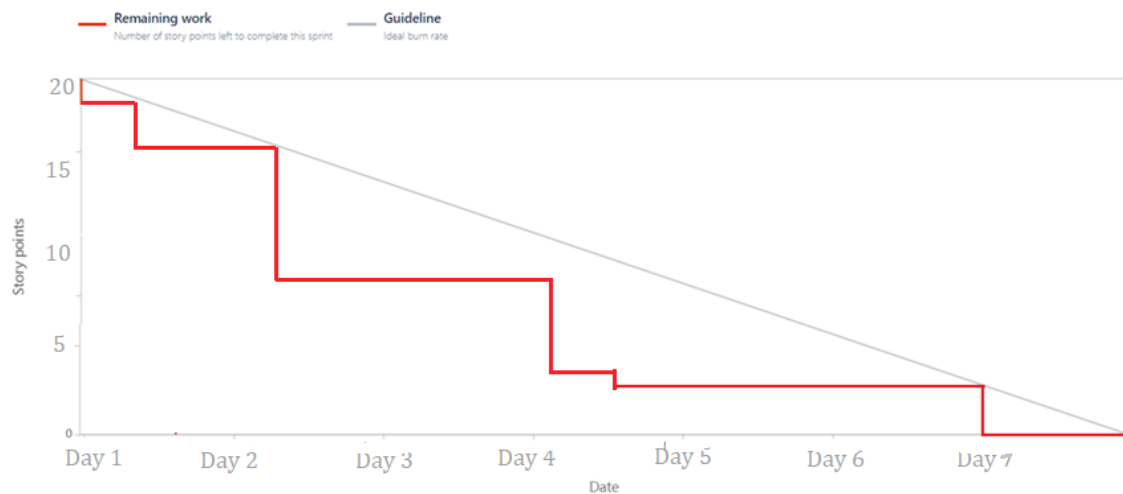
USN-10

NAVIGATION OPTIONS
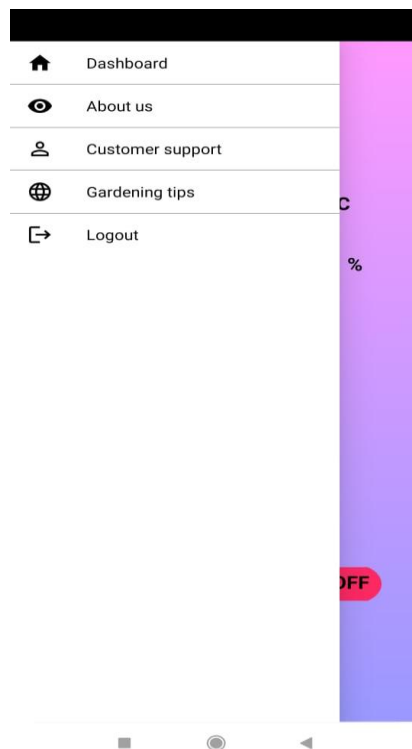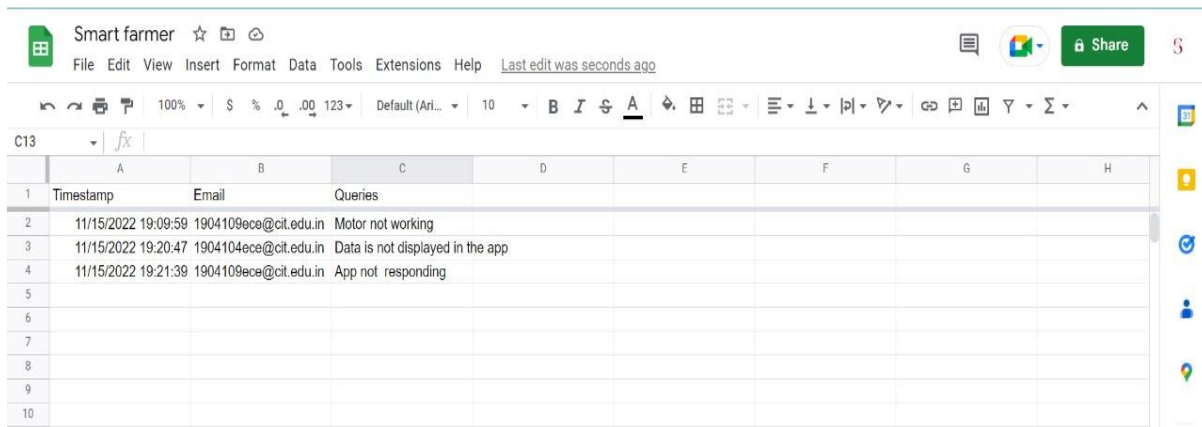
CUSTOMER SUPPORT

USN-16

ADMIN DATABASE
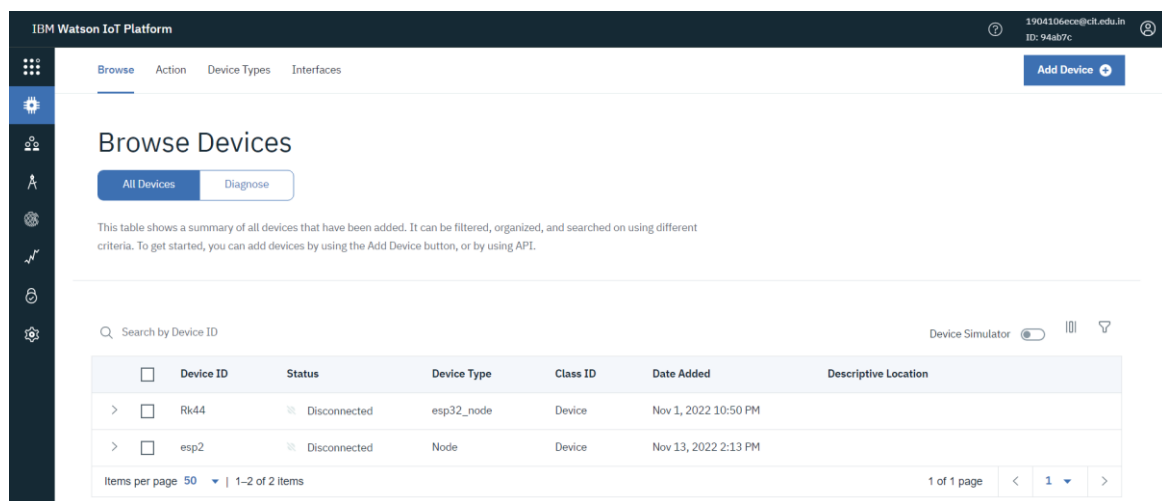
Admin access the Google sheets for checking errors in sensor reading

USN-26

IBM IOT WATSON SETUP

A) INPUT FROM DEVICE SIMULATION

Node esp2 ˅

Events 1

˅ | **Event type name** | **Frequency** | **Send** |
| Sensor_data | 20 × Every Minute | |

Payload

You can override field values in the event payload that is sent by this device. Specify the override values in the editor window.

```
0  {
1      "Temperature": random(16, 50),
2      "Soil moisture": random(250,850),
3      "Ambient Light-LDR": random(0,1023),
4      "Rain sensor": random(0,1023),
5      "pH sensor": random(5,9)
6  }
7
```

Cancel   **Save**

˅ ☐ esp2   ✎ Disconnected   Node   Device   Nov 13, 2022 2:13 PM

Identity   Device Information   Recent Events   **State**   Logs

∿ **Showing Raw Data** | No Interfaces Available

Property	Value	Type	Event	Last Received
Temperature	29	Number	Sensor_data	a few seconds ago
Soil moisture	522	Number	Sensor_data	a few seconds ago
Ambient Light-LDR	272	Number	Sensor_data	a few seconds ago
Rain sensor	225	Number	Sensor_data	a few seconds ago
pH sensor	7	Number	Sensor_data	a few seconds ago

B) INPUT FROM HARDWARE SIMULATION

USN-27

NODE-RED INSTALLATION

NODE-RED SERVICE SETUP
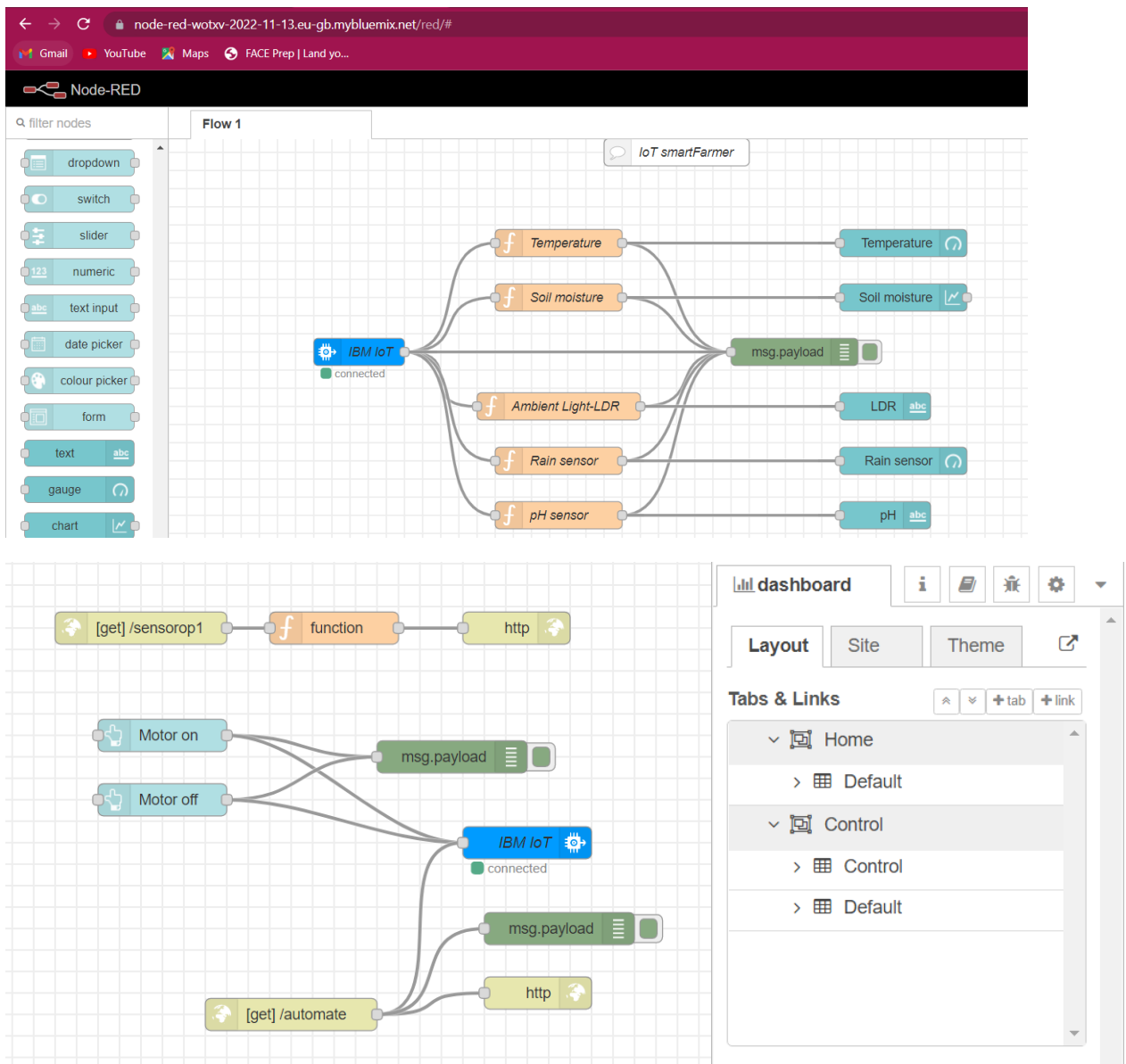
NODE RED OUTPUT

{"command":"Motor_off"}

{"Temperature":44,"Soil_moisture":79,"Rain_sensor":328,"pH_sensor":6,"Ambient_Light_LDR":914}

🐞 debug   i 📖 🐞 ⚙

▼ all nodes   🗑 all ▼

11/18/2022, 12:33:52 AM   node: f2f2649a.0d0d98
iot-2/type/Node/id/esp2/evt/status/fmt/json :
msg.payload : Object

▶ { Temperature: 44, Soil_moisture:
79, Ambient_Light_LDR: 914,
Rain_sensor: 328, pH_sensor: 6 }

11/18/2022, 12:33:52 AM   node: f2f2649a.0d0d98
iot-2/type/Node/id/esp2/evt/status/fmt/json :
msg.payload : number

44

11/18/2022, 12:33:52 AM   node: f2f2649a.0d0d98
iot-2/type/Node/id/esp2/evt/status/fmt/json :
msg.payload : number

79

11/18/2022, 12:33:52 AM   node: f2f2649a.0d0d98
iot-2/type/Node/id/esp2/evt/status/fmt/json :
msg.payload : number

914

11/18/2022, 12:33:52 AM   node: f2f2649a.0d0d98
iot-2/type/Node/id/esp2/evt/status/fmt/json :
msg.payload : number

328

11/18/2022, 12:33:52 AM   node: f2f2649a.0d0d98
iot-2/type/Node/id/esp2/evt/status/fmt/json :
msg.payload : number

6