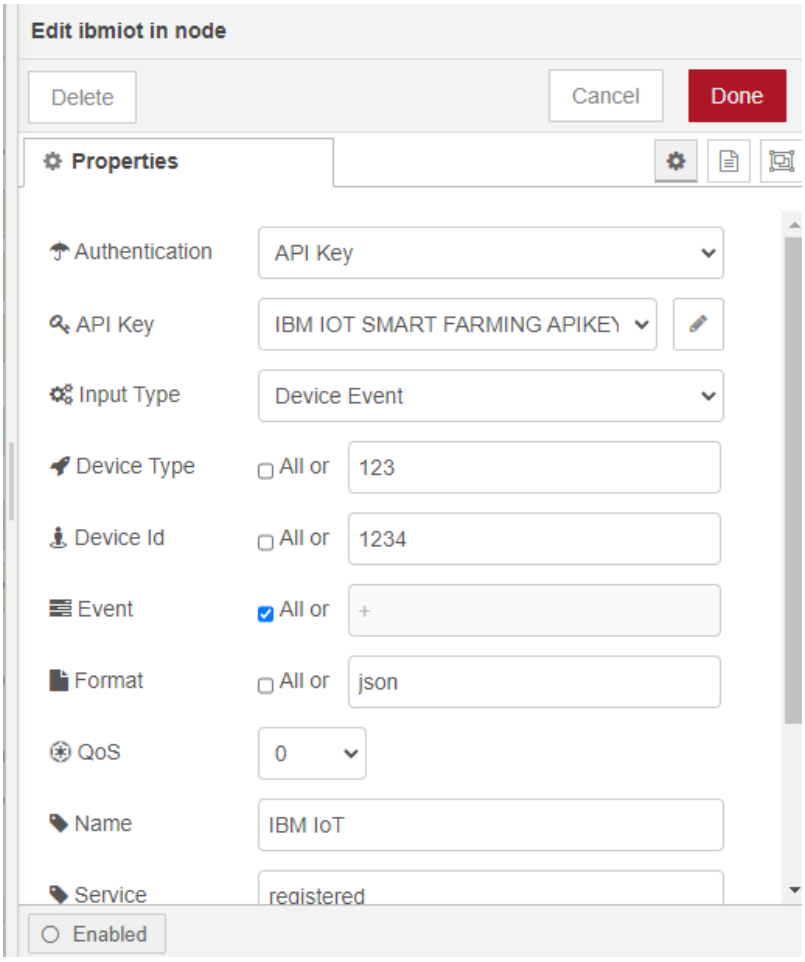
SPRINT DELIVERY-3

DATE	17 November 2022
TEAM ID	PNT2022TMID52158
PROJECT NAME	Smart Farmer - IoT Enabled Smart Farming Application

Establishing Node-Red connection:

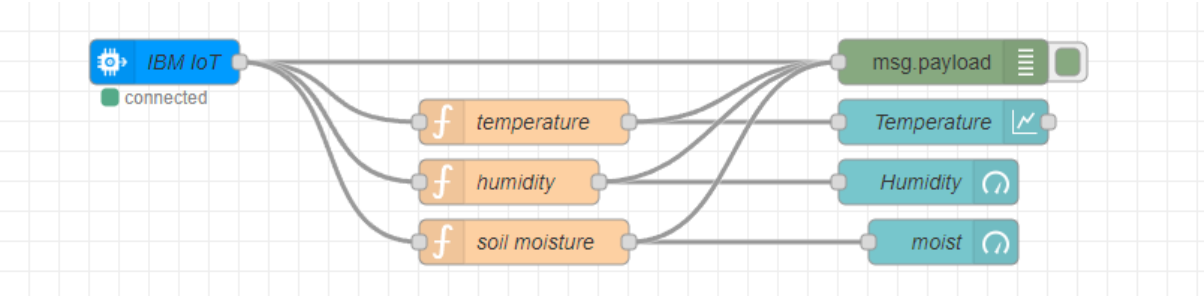
Configuration of Node-Red to collect IBM cloud data:

Ibmiot in collect the data's in the device display.



IBM in node

Get separate data using nodes:



Nodes connected in following manner to get each reading separately

Java script Code in Temperature, Humidity and soil moisture:

❖ Temperature:

```
msg.payload=msg.payload.temp
global.set("t",msg.payload)
return msg;
```

❖ Humidity:

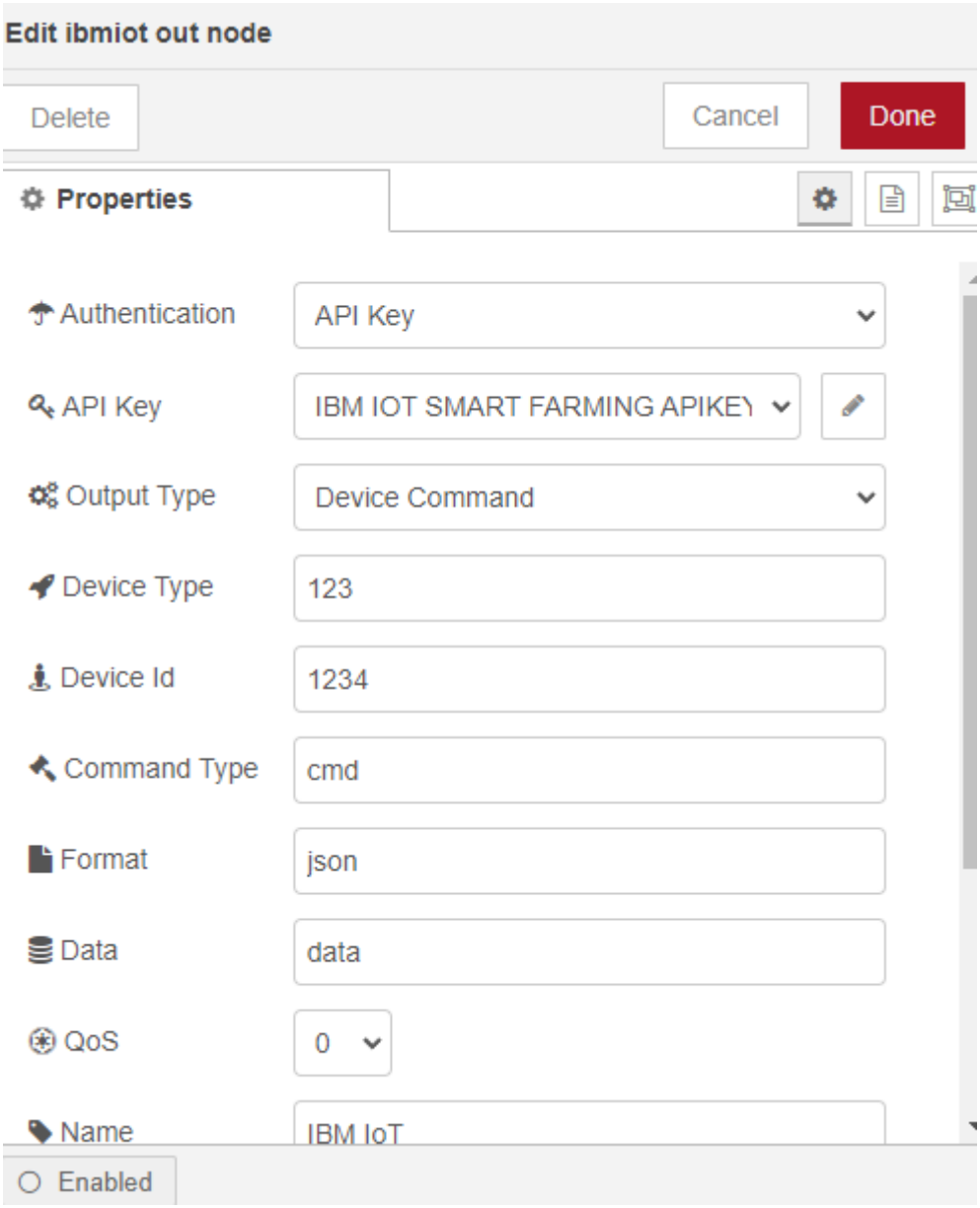
```
msg.payload=msg.payload.Humid
global.set("h",msg.payload)
return msg;
```

❖ Soil moisture:

```
msg.payload=msg.payload.moist
global.set("m",msg.payload)
return msg;
```

Node-red to send command in ibm cloud

Ibmiot out node is used to send from Node-red to IBM watson device



Ibmiot out node

Motor on and off Commands:

- **Motor on:**

  {"command":"motoron"}

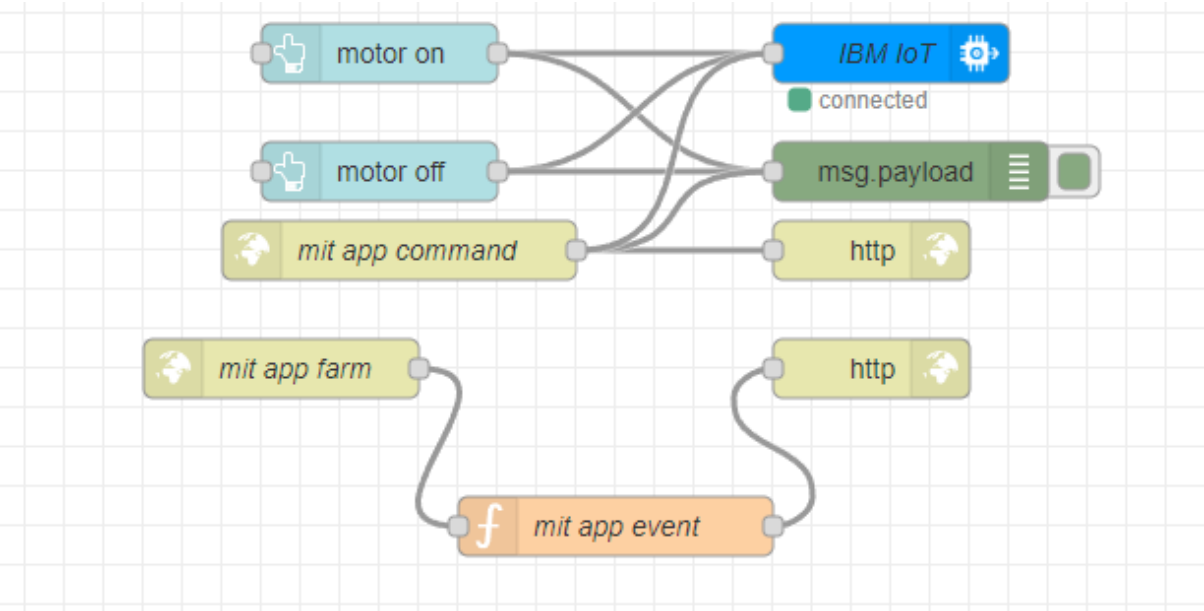
- **Motor off:**

  {"command":"motoroff"}

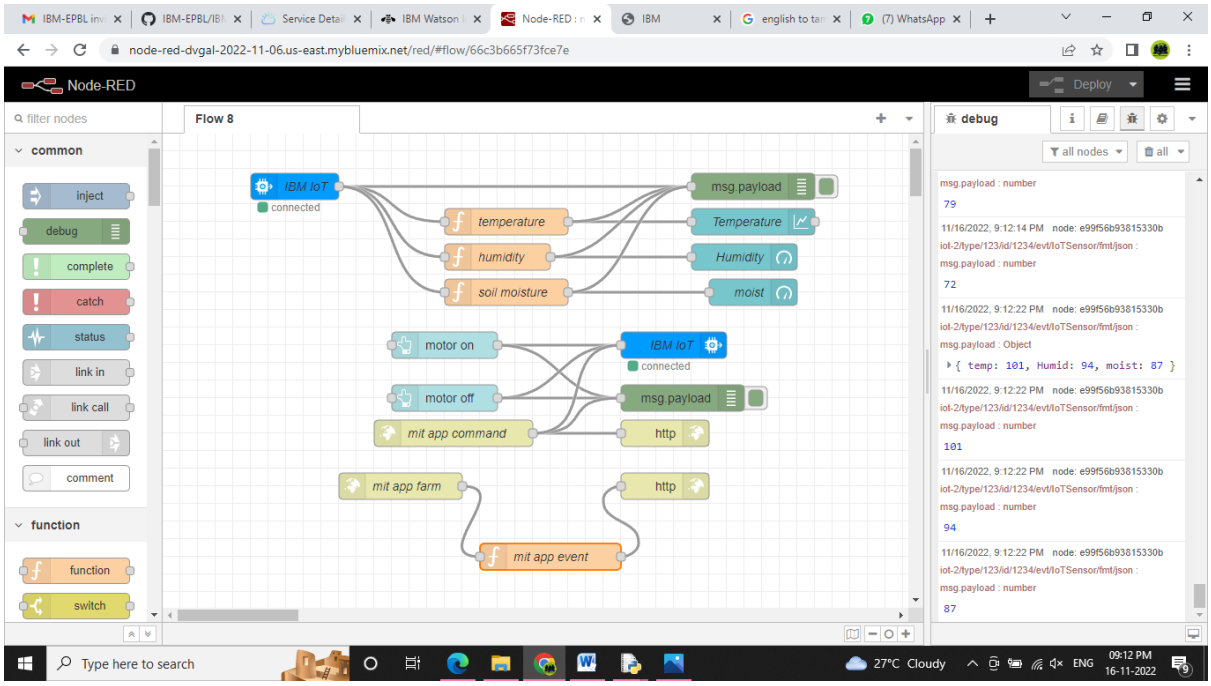
  - Next connect the http request, response node to connect the website.
  - **Java script code**

    msg.payload={"temp":global.get("t"),"humid":global.get("h"),"moist":global.get("m")}

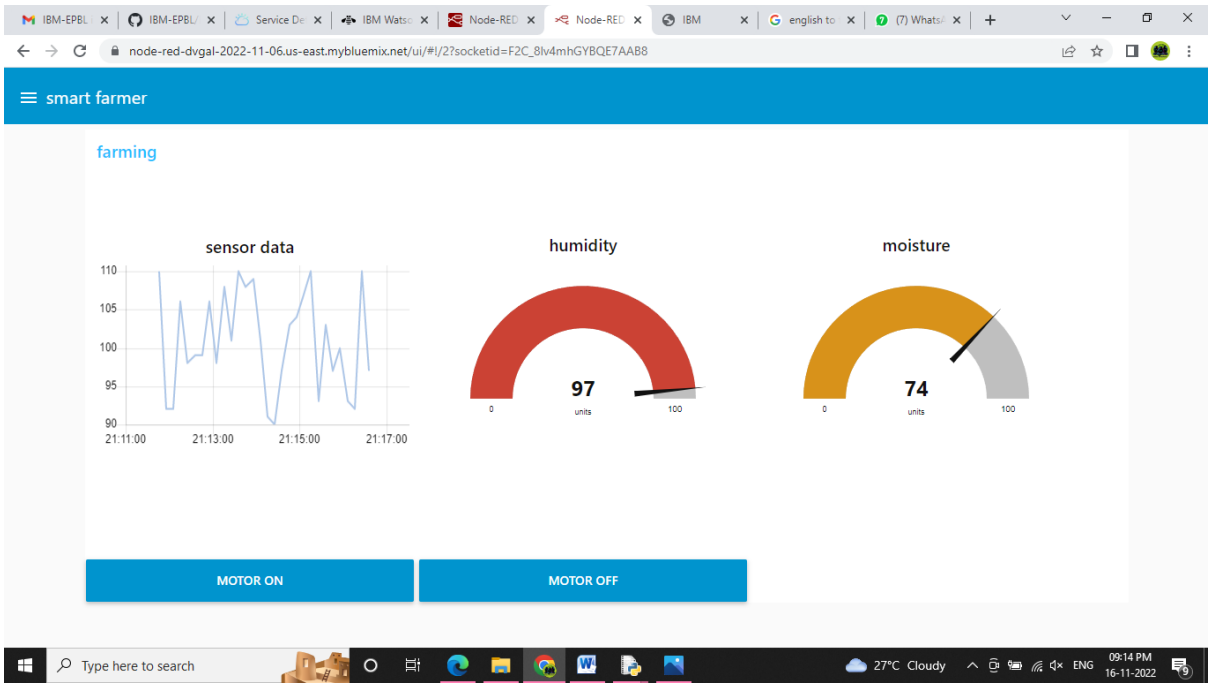
    return msg;



The complete Node-red connections:

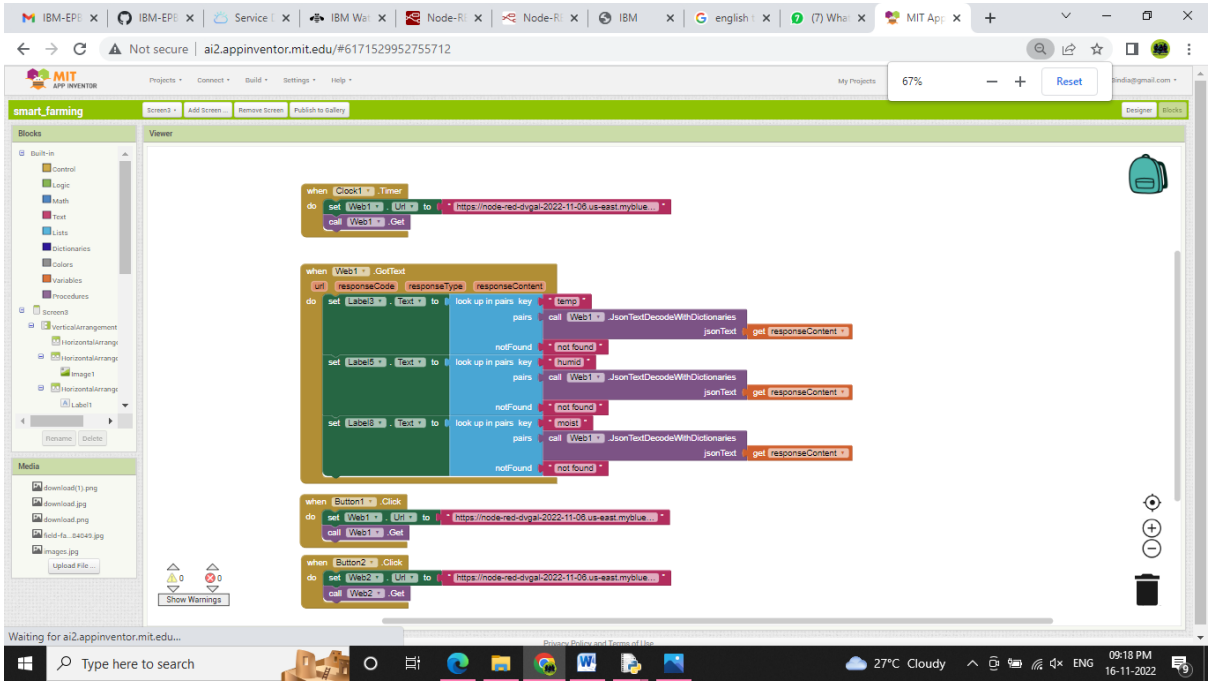


The Temperature, Humidity, soil moisture Dashboards:

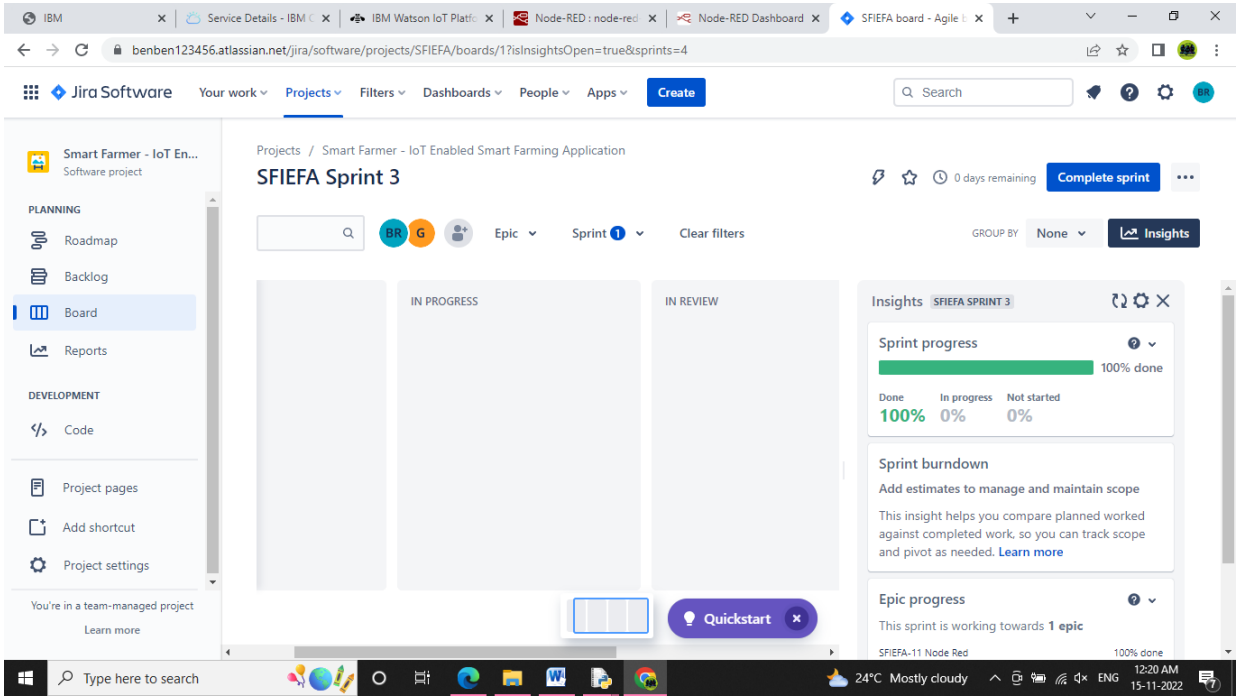


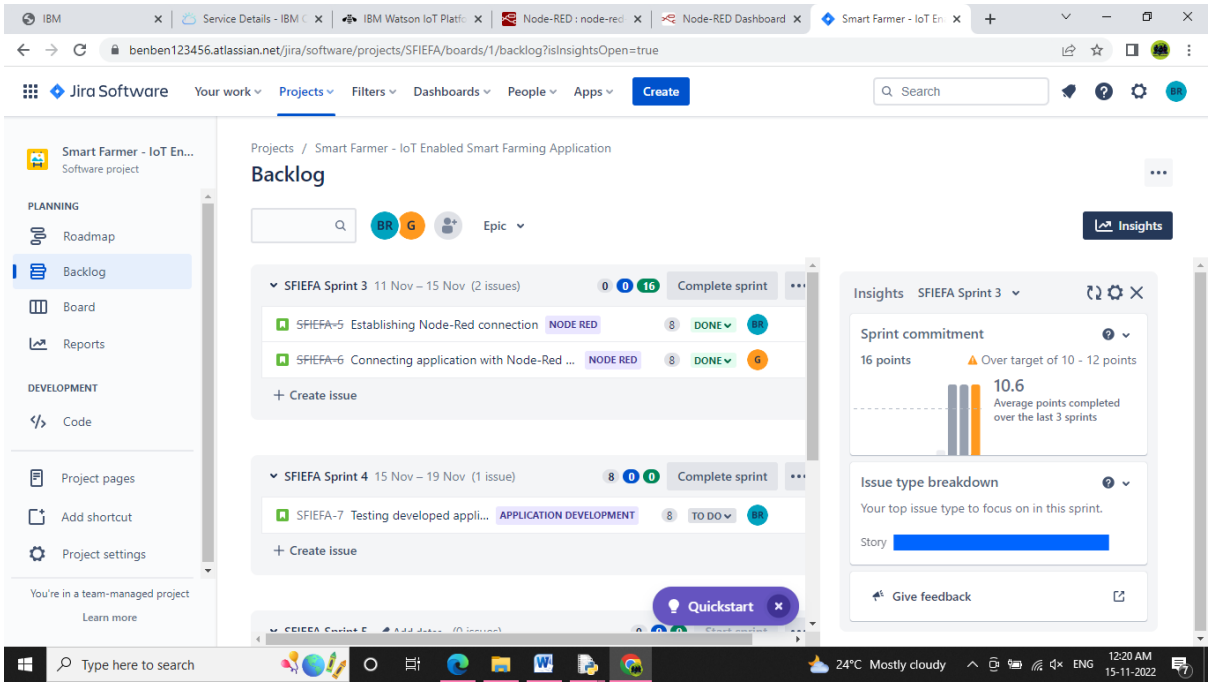
Connecting application with Node-Red and further application development:

Connecting Node-red with MIT app inventor:



JIRA Software Sprint Planning:

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Epic
Insights
SFIEFA Sprint 3 11 Nov – 15 Nov (2 issues)
Complete sprint
SFIEFA-5 Establishing Node-Red connection NODE RED DONE
SFIEFA-6 Connecting application with Node-Red ... NODE RED DONE
Create issue
SFIEFA Sprint 4 15 Nov – 19 Nov (1 issue)
SFIEFA-7 Testing developed appli... APPLICATION DEVELOPMENT TO DO
Insights SFIEFA Sprint 3
Sprint commitment
16 points
Over target of 10 - 12 points
10.6
Average points completed over the last 3 sprints
Issue type breakdown
Your top issue type to focus on in this sprint.
Story
Give feedback
Quickstart
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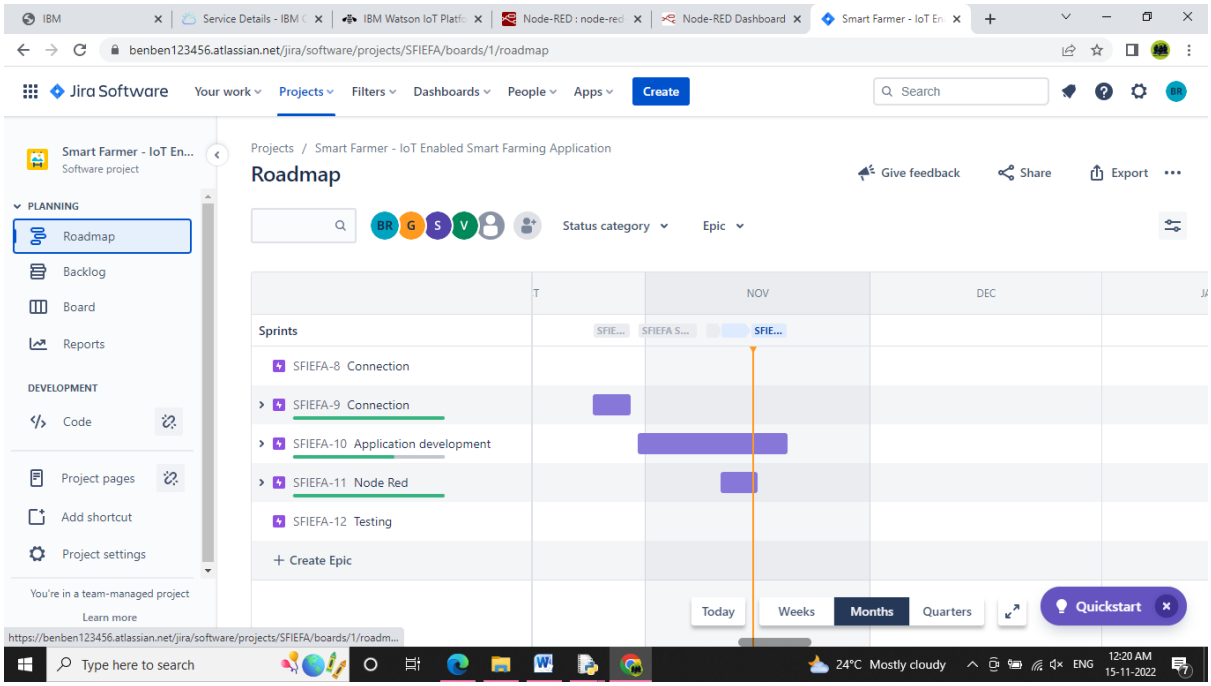
ENG
12:20 AM
15-11-2022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SFIEFA-9 Connection
SFIEFA-10 Application development
SFIEFA-11 Node Red
SFIEFA-12 Testing
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Months
Quarters
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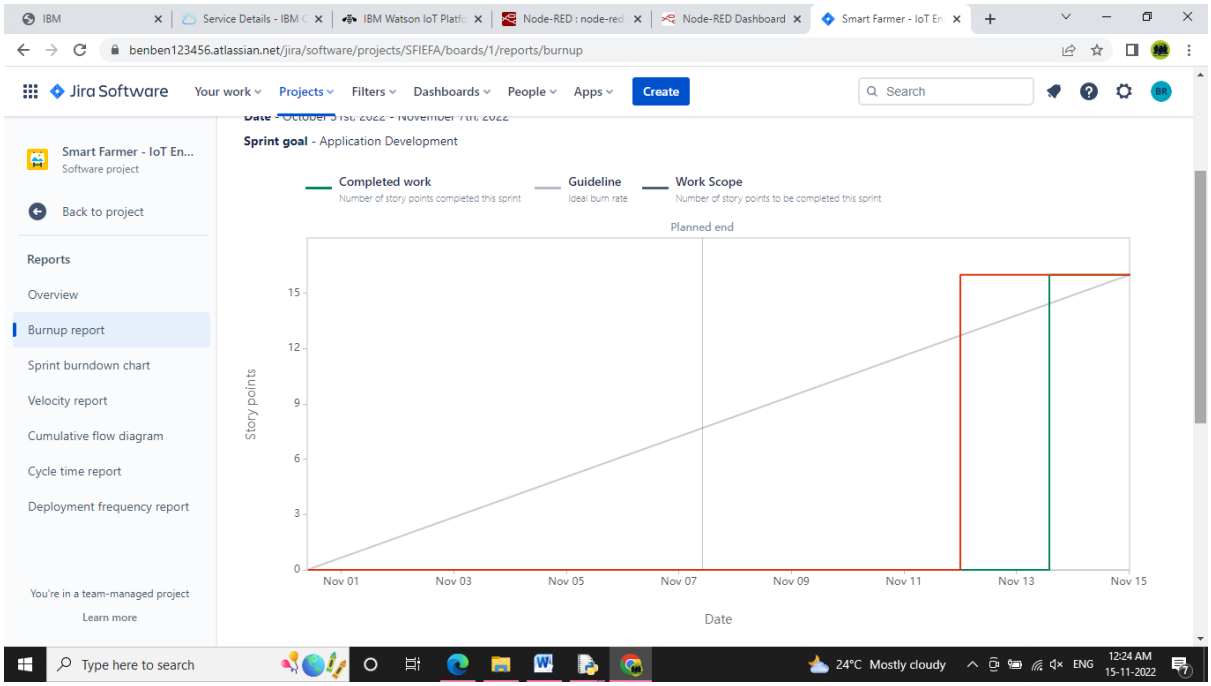
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Software project
Back to project
Reports
Overview
Burnup report
Sprint burndown chart
Velocity report
Cumulative flow diagram
Cycle time report
Deployment frequency report
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Sprint goal - Application Development
Completed work
Number of story points completed this sprint
Guideline
Ideal burn rate
Work Scope
Number of story points to be completed this sprint
Planned end
Story points
0
3
6
9
12
15
Nov 01
Nov 03
Nov 05
Nov 07
Nov 09
Nov 11
Nov 13
Nov 15
Date
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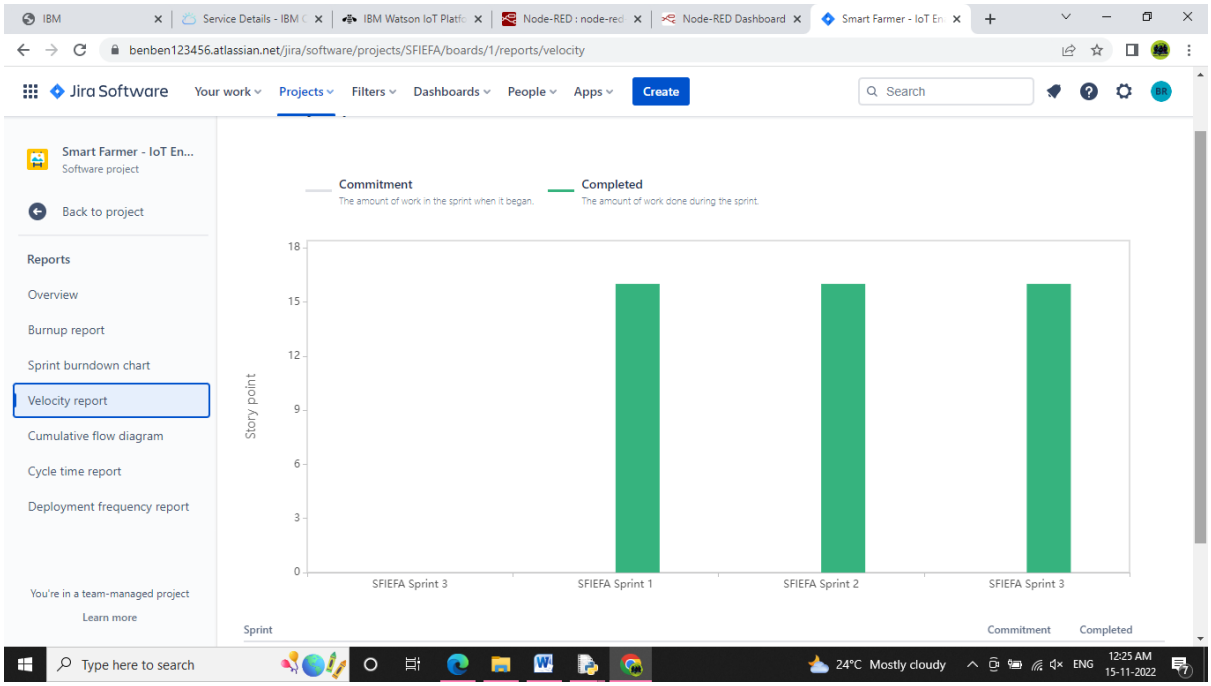
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Commitment
The amount of work in the sprint when it began.
Completed
The amount of work done during the sprint.
Story point
0
3
6
9
12
15
18
SFIEFA Sprint 3
SFIEFA Sprint 1
SFIEFA Sprint 2
SFIEFA Sprint 3
Sprint
Commitment
Completed
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