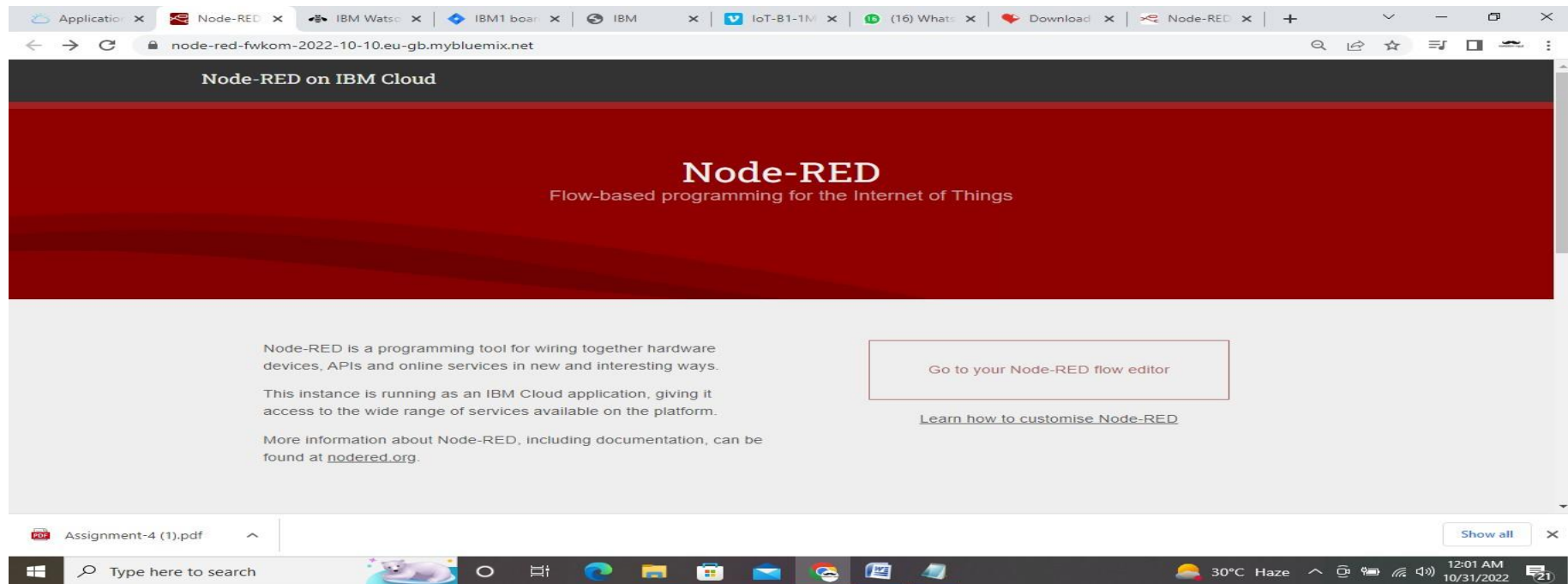


## Project Development Phase Sprint-2

Date	13 NOVEMBER 2022
Team ID	PNT2022TMID08456
Project Name	Real-time river water quality monitoring and control system

USN-7

**As a user, I can create Node Red by app deployment.**



8

## USN-8

As a user, I can get the API key through IBM Watson platform.

The screenshot displays the IBM Cloud Apps interface. A dark sidebar on the left contains navigation icons. The main content area is titled 'Browse IBM Cloud Apps'. A large message box states 'The API key has been added.' with a warning that authentication tokens are non-recoverable. Below this, two columns of information are shown: 'Generated Details' and 'API Key Information'. The 'Generated Details' column lists the 'API Key' and 'Authentication Token'. The 'API Key Information' column lists the 'Description', 'Role', and 'Expires' date. At the bottom of the message box are three buttons: 'View API Key', 'Add Another', and 'Close'. Below the message box, the 'Browse API Keys' section is visible, including a search bar and a table of API keys. A status box at the bottom right indicates '2 Simulations running'.

Browse IBM Cloud Apps

The API key has been added.

Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the API key to generate a new authentication token.

Generated Details		API Key Information	
API Key	a-nv07c6-8ogwyewoqz	Description	-
Authentication Token	0-C*1q+M6YoC43WQJ	Role	Standard Application
		Expires	Never

Make a note of the generated authentication token. Lost authentication tokens cannot be recovered. If you lose the token, you must reregister the API to generate a new token.

View API Key Add Another Close

### Browse API Keys

This table shows a summary of the API keys that have been added for the organization. It can be filtered, organized, and search on using different criteria. To get started, you can add API keys by clicking Generate API Key, or by using the API. For more information about adding API keys, see API key connection.

Type the app description to search for

2 Simulations running

## USN-9

As a user, I can design the flow in Node Red.

The screenshot displays the Node-RED web interface in a browser. The address bar shows the URL `127.0.0.1:1880/#flow/2c31fab4f92e7193`. The interface is divided into several sections:

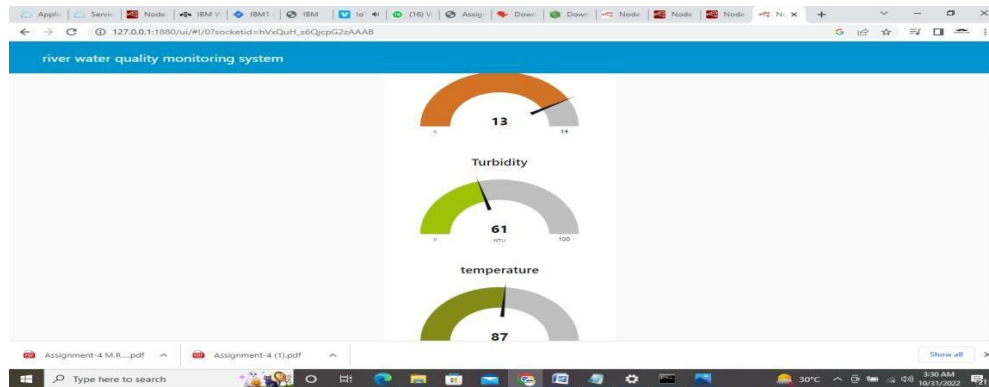
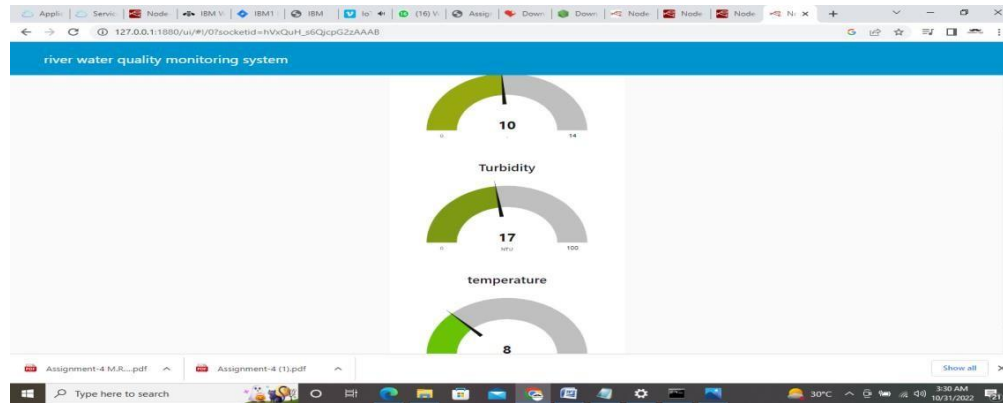
- Left Panel:** Contains a search bar and two categories of nodes: **common** (inject, debug, complete, catch, status, link in, link call, link out, comment) and **function** (function).
- Flow Canvas:** Labeled "Flow 1", it shows a flow starting with an **IBM IoT** node (connected). This node branches into three parallel paths:
  - A **msg payload** node.
  - A **temperature node** (function node) connected to a **temperature** output node.
  - A **pH** node (function node) connected to a **pH** output node.
  - A **Turbidity** node (function node) connected to a **Turbidity** output node.
- Right Panel:** Labeled "debug", it shows a list of messages. The messages are objects containing temperature, pH, and turbidity data, along with timestamps and node identifiers.

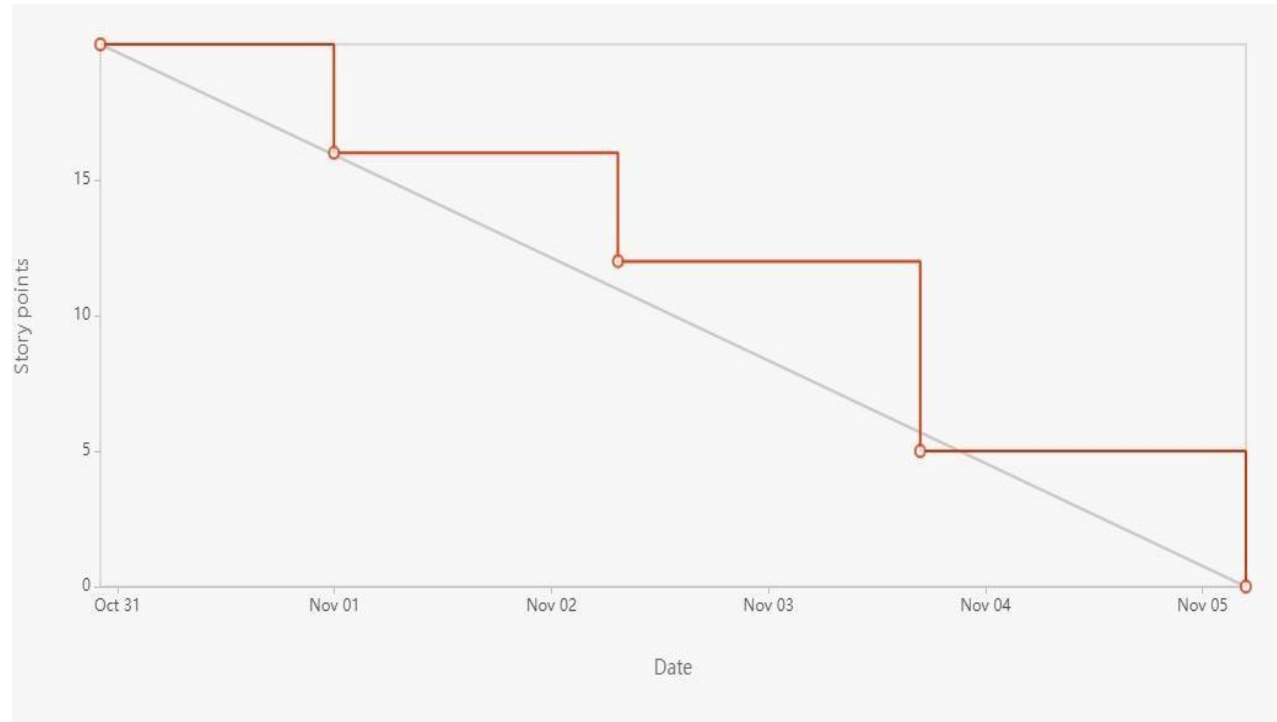
The bottom of the image shows a Windows taskbar with the search bar, several application icons, and system information indicating a temperature of 30°C and the date/time as 3:37 AM on 10/31/2022.

8

## USN-10

As a user, I can check for the gauge output.



**SPRINT BURNDOWN CHART:**

## ROAD MAP:

	OCT				NOV							NOV										
	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
Sprints	Sprint 1				Sprint 2							Sprint 3							Sprint 4			
> <a href="#">IBM1-7 Create and configure IBM cloud services (I...</a>																						
> <a href="#">IBM1-8 Create and access Node-Red</a>																						
> <a href="#">IBM1-13 MIT app inventor (Front end design and B...</a>																						
> <a href="#">IBM1-16 Simulate ESP32</a>																						
> <a href="#">IBM1-21 Create a Web UI</a>																						
> <a href="#">IBM1-24 Connect with web application</a>																						

## VELOCITY CHART:

