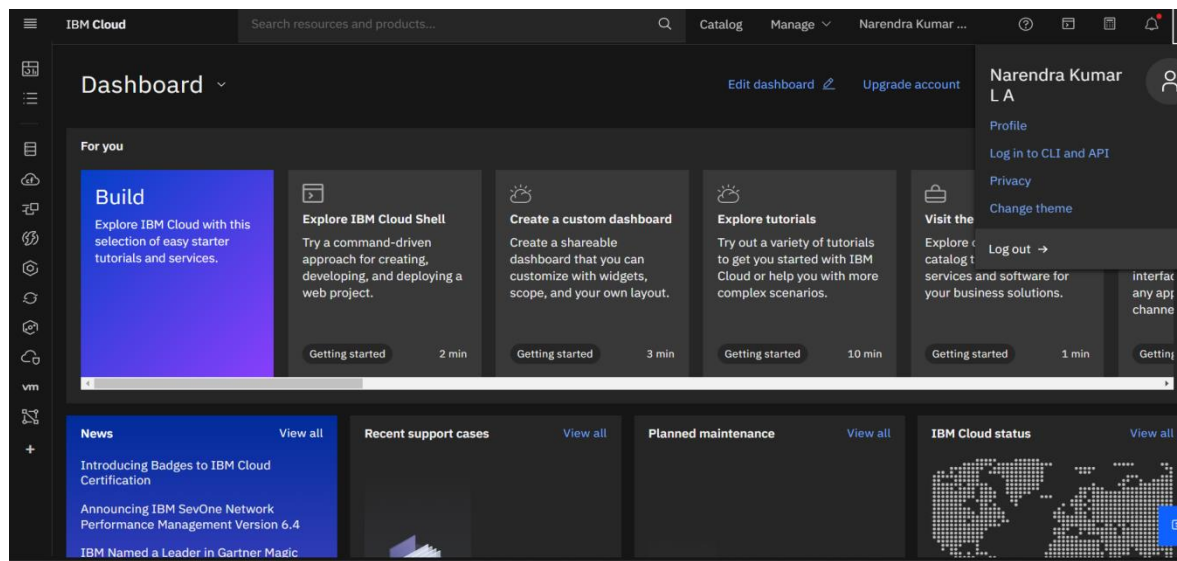


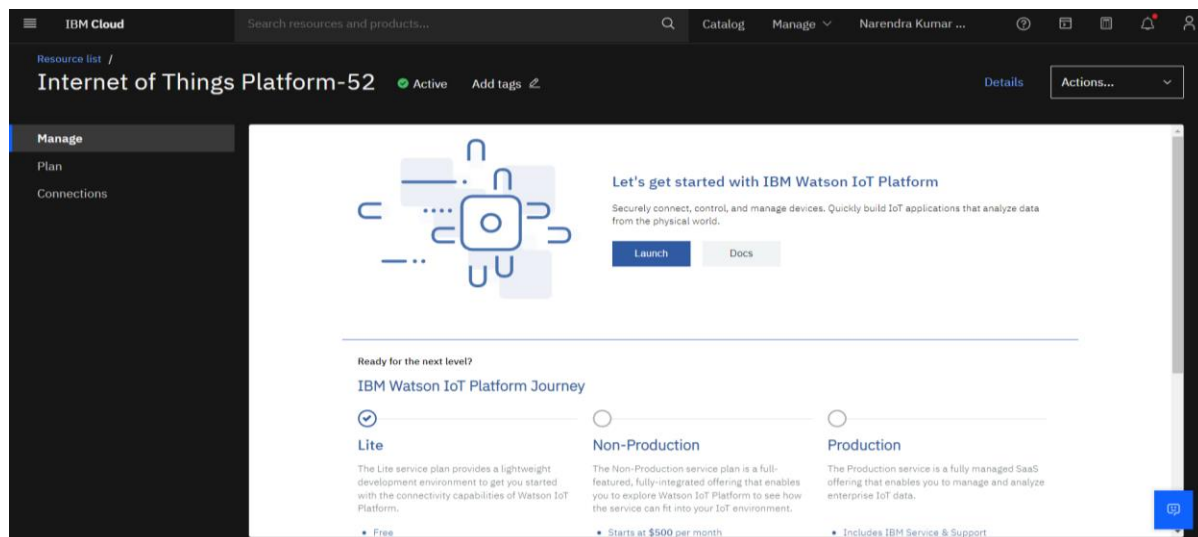
Sprint-2-Creating new device in IBM Watson and workflows in Nodered

Team ID	PNT2022TMID33708
Project Name	Smart solutions for railways

Step1:Opening IBM Cloud



Step-2:Opening Internet of Things Platform in IBM Cloud



Step-3: Launching IBM Watson

IBM Watson IoT Platform

922519205070@smartinternz.com
ID: d941ew

Browse Action Device Types Interfaces

Add Device +

Browse Devices

All Devices Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device Simulator ☒

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
> <input type="checkbox"/>	123456	Disconnected	abcd	Device	Nov 18, 2022 1:21 PM	
> <input type="checkbox"/>	558585	Disconnected	svrtbr	Device	Nov 18, 2022 11:26 AM	

Items per page 50 | 1-2 of 2 items

1 of 1 page < 1 >

1 Simulation running

Step-4: Creating a new Device

IBM Watson IoT Platform

922519205070@smartinternz.com
ID: d941ew

Browse Action Device Types Interfaces

Add Device

Identity Device Information Security Summary

Select a device type for the device that you are adding and give the device a unique ID.

Device Type Select or create a device type...

Device ID Enter Device ID

Cancel Next

Browse Devices

All Devices Diagnose

1 Simulation running

Step-5: Adding Device Type and Device Id

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform. The wizard is a modal window with a progress bar at the top showing four steps: Identity, Device Information, Security, and Summary. The 'Identity' step is currently active, indicated by a blue circle and the word 'Identity' below it. The instructions for this step are: 'Select a device type for the device that you are adding and give the device a unique ID.' Below the instructions, there are two input fields: 'Device Type' with the value 'arduino' and 'Device ID' with the value '112233'. At the bottom right of the modal, there are two buttons: 'Cancel' and 'Next'. Below the modal, the 'Browse Devices' section is visible, showing a status '1 Simulation running'.

IBM Watson IoT Platform

922519205070@smartinternz.com
ID: d941ew

Browse Action Device Types Interfaces

Add Device

Identity Device Information Security Summary

Select a device type for the device that you are adding and give the device a unique ID.

Device Type arduino

Device ID 112233

Cancel Next

Browse Devices

All Devices Diagnose

1 Simulation running

Step-6: Finish Creating a new Node

The screenshot shows the 'Add Device' wizard in the IBM Watson IoT Platform, now at the 'Device Information' step. The progress bar at the top shows four steps: Identity, Device Information, Security, and Summary. The 'Device Information' step is currently active, indicated by a blue circle and the word 'Device Information' below it. The instructions for this step are: 'Verify that the following information is correct then select Finish'. Below the instructions, there are two input fields: 'Device Type' with the value 'arduino' and 'Device ID' with the value '112233'. Below these fields, there is a 'View Metadata' button. Below the button, there are two input fields: 'Security Token' with the value 'To be generated'. At the bottom right of the modal, there are two buttons: 'Back' and 'Finish'. Below the modal, the 'Browse Devices' section is visible, showing a status '1 Simulation running'.

IBM Watson IoT Platform

922519205070@smartinternz.com
ID: d941ew

Browse Action Device Types Interfaces

Add Device

Identity Device Information Security Summary

Verify that the following information is correct then select Finish

Device Type arduino

Device ID 112233

View Metadata

Security Token To be generated

Back Finish

Browse Devices

All Devices Diagnose

1 Simulation running

Step-7: Device created Successfully

The screenshot shows the IBM Watson IoT Platform interface. The top header displays the organization ID: 922519205070@smartinternz.com and the device ID: d941ew. The left sidebar contains navigation icons. The main content area is titled "Device Drilldown - 112233". A left-hand menu lists various options: Device Credentials, Connection Information, Recent Events, State, Device Information, Metadata, Diagnostics, Connection Logs, and Device Actions. The "Device Credentials" section is active, showing a table with the following details:

Property	Value
Organization ID	d941ew
Device Type	arduino
Device ID	112233
Authentication Method	use-token-auth
Authentication Token	T*2EFNm8Bp0psv0K-f

Below the table, a warning icon and text state: "Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the device to generate a new authentication token." A link provides instructions on how to add credentials to the device. At the bottom right, a status bar indicates "1 Simulation running".

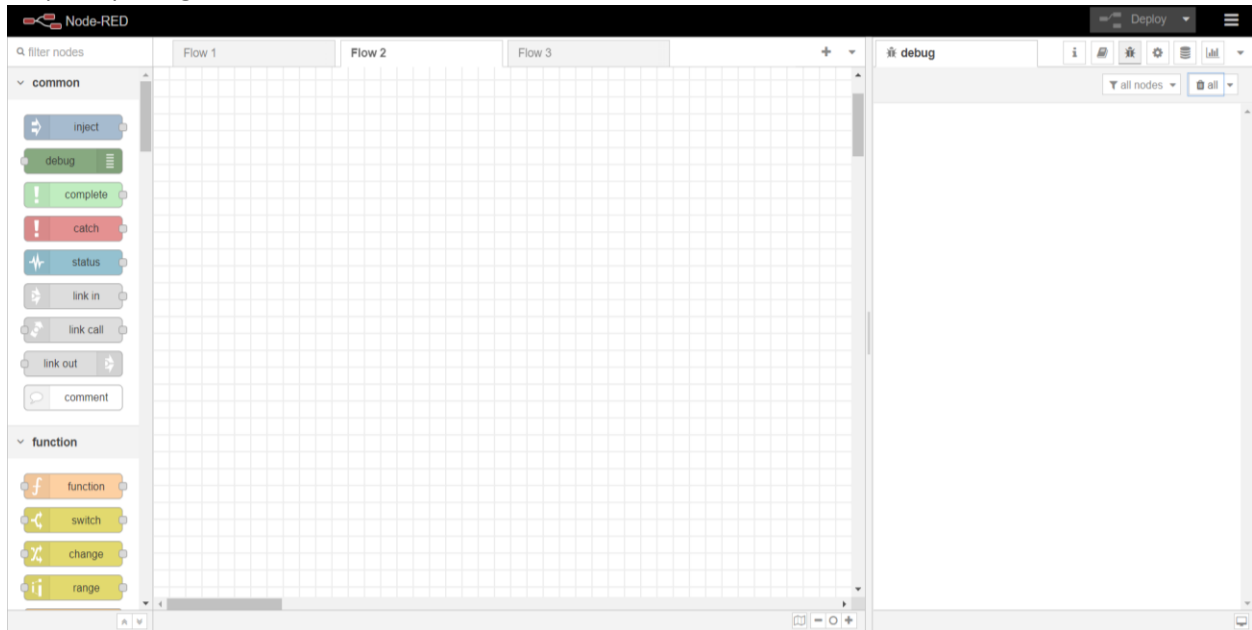
Step-8: Stimulated the device

The screenshot shows the IBM Watson IoT Platform interface with the "Recent Events" tab selected for device 558585. The top header shows the organization ID: 922519205070@smartinternz.com and the device ID: d941ew. The left sidebar contains navigation icons. The main content area displays a table of recent events:

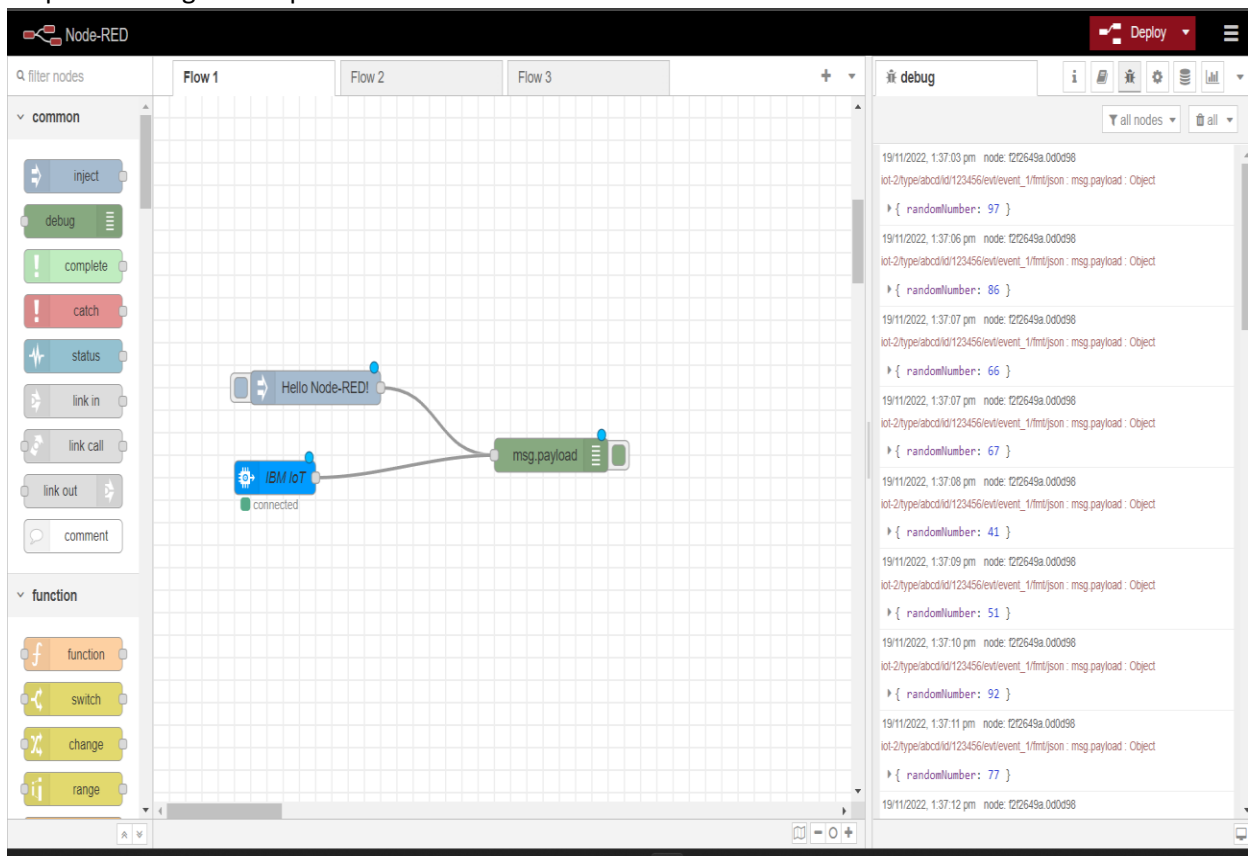
Event	Value	Format	Last Received
event_1	{"randomNumber":9}	json	a few seconds ago
event_1	{"randomNumber":70}	json	a few seconds ago
event_1	{"randomNumber":97}	json	a few seconds ago
event_1	{"randomNumber":8}	json	a few seconds ago
event_1	{"randomNumber":84}	json	a few seconds ago

Below the table, a status bar shows the device ID 558585, its status "Disconnected", the device name "svrtbr", and the status "1 Simulation running".

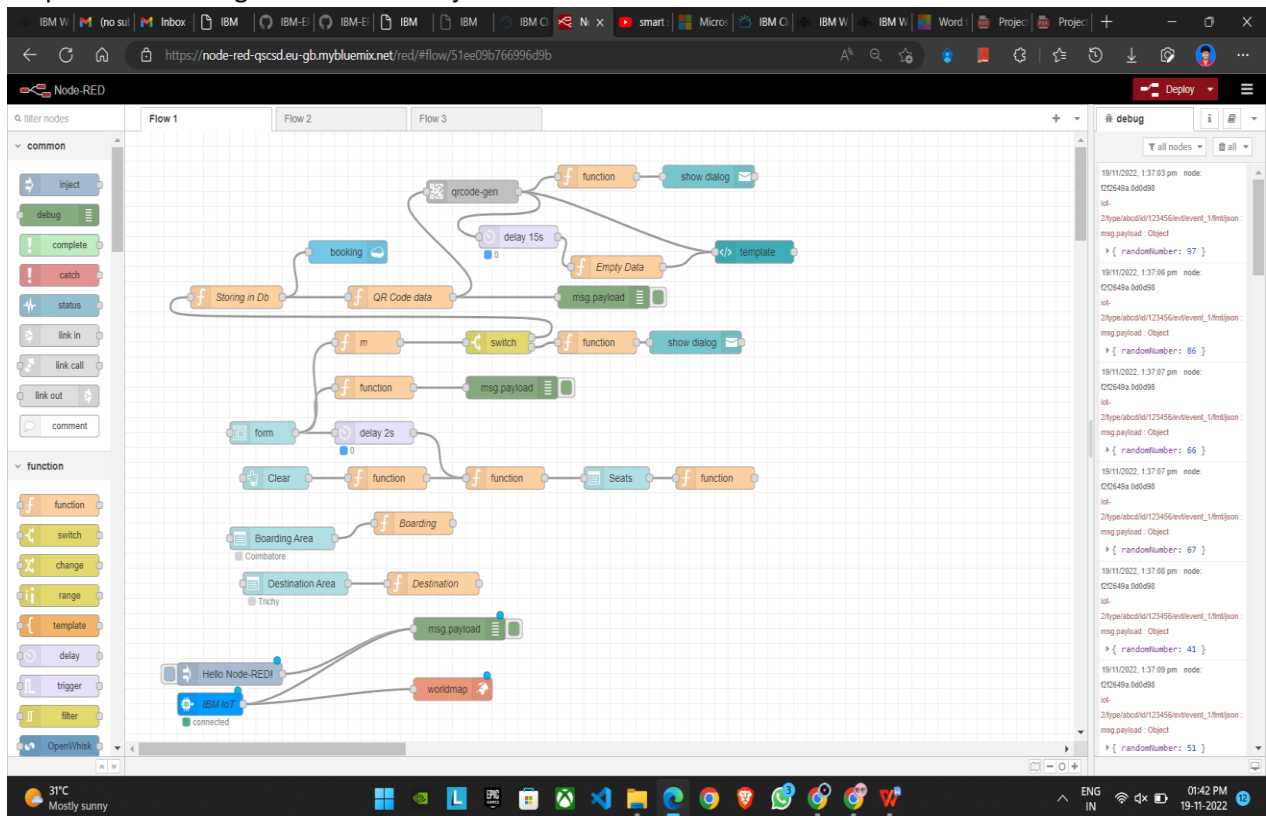
Step-9:Opening Node Red



Step-10:Getting the output from IBM Watson to NodeRed



Step-11: Connecting flows for the Project



Step-12: Displaying the Web UI using NodeRed

Home

IBM

Seats Select option

Boarding Area Coimbatore

Destination Trichy

Name *

Age *

Mobile Number *

SUBMIT CANCEL

CLEAR