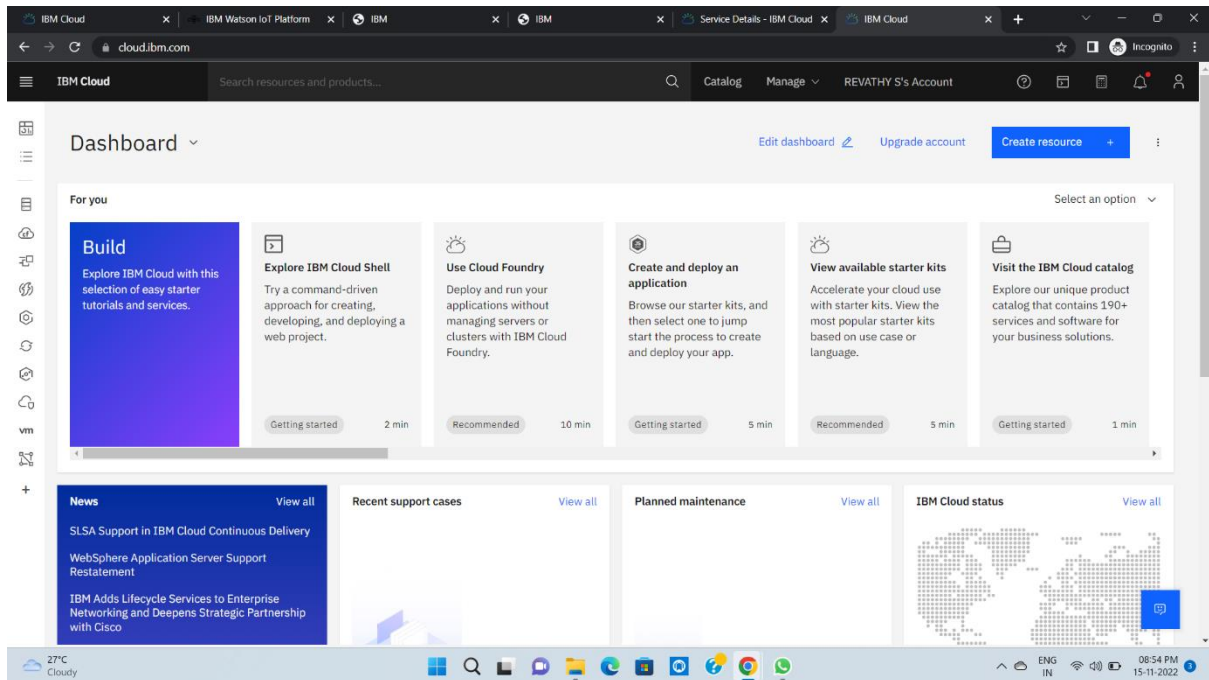


PROJECT OBJECTIVES

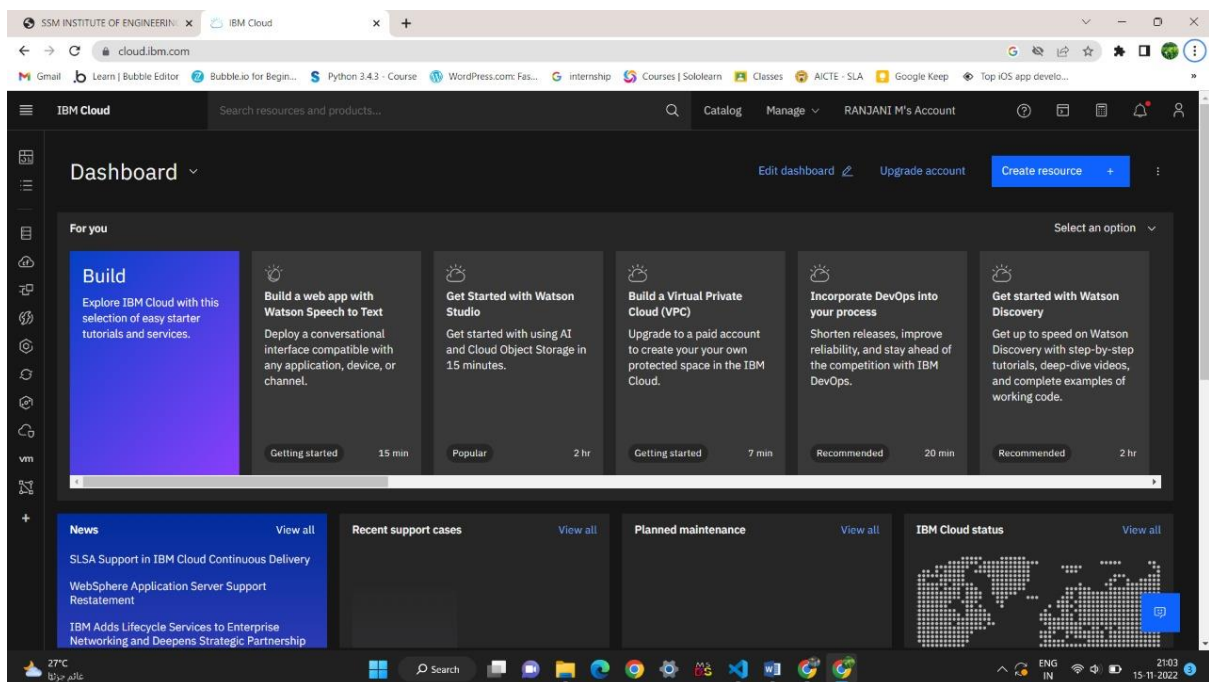
Team ID	PNT2022TMID33244
Project Name	Project- Smart Waste Management System For Metropolitan Cities.

Create and configure IBM cloud services:

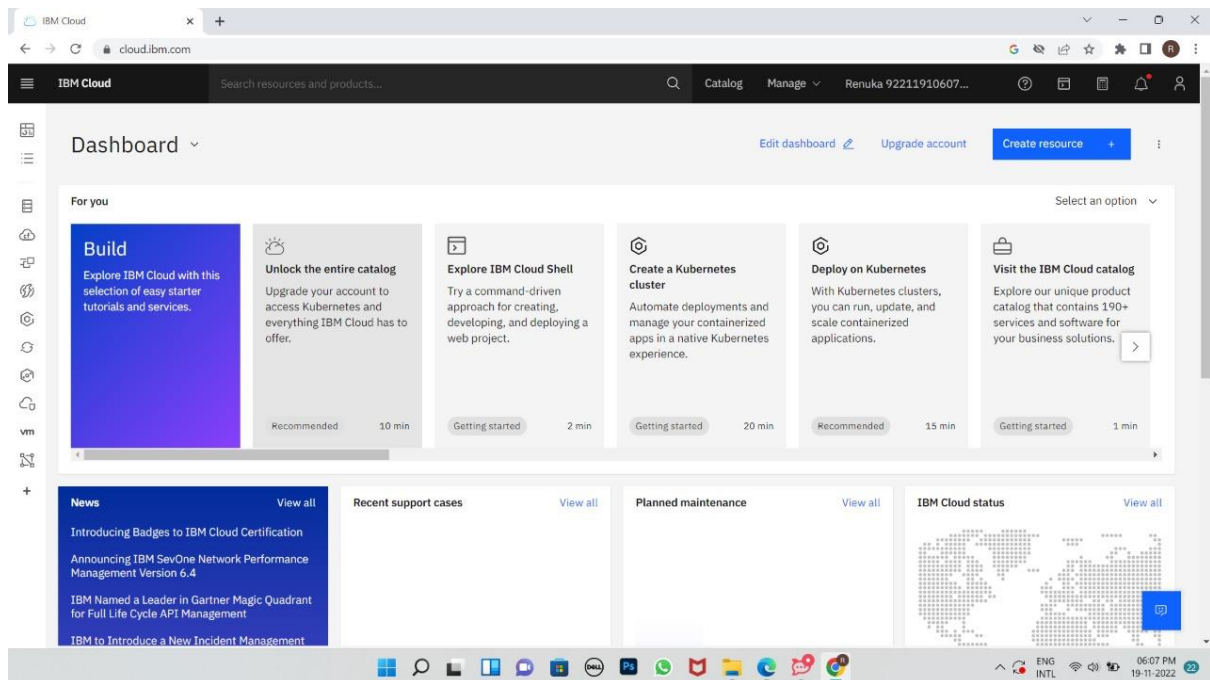
Team lead:



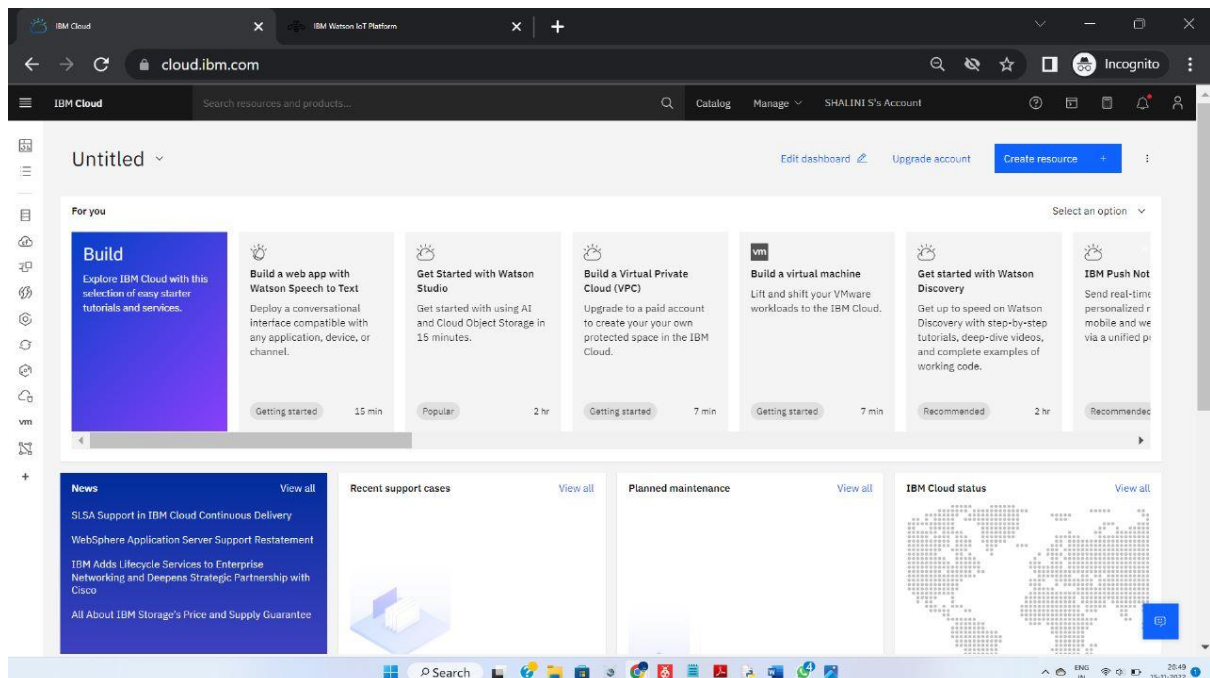
Team member-1:



Team member-2:



Team member-3:



Create IBM Watson IOT platform:

Team lead:

The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. The main content area displays a table of devices. The first device, 'revathy2001', is highlighted. Below the table, a detailed view of the device is shown, including its ID, type, date added, and connection status.

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
revathy2001	Disconnected	Revathyhub	Device	31 Oct 2022 12:16	

Device Information:

- Device ID: revathy2001
- Device Type: Revathyhub
- Date Added: 31 Oct 2022 12:16
- Added By: 922119106079@smartinternz.com
- Connection Status: Disconnected

Team member-1:

The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. The main content area displays a table of devices. The first device, 'Ranjani76', is highlighted. Below the table, a detailed view of the device is shown, including its ID, type, date added, and connection status.

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
Ranjani76	Disconnected	Ranjani	Device	2 Nov 2022 13:41	

Device Information:

- Device ID: Ranjani76
- Device Type: Ranjani
- Date Added: 2 Nov 2022 13:41
- Added By: 922119106076@smartinternz.com
- Connection Status: Disconnected

Recent Events:

- Last Connected: 2 Nov 2022 14:10
- Client Address: 145.40.94.93 Insecure
- Duration: a minute
- Data Transferred: 950 B

Team member-2:

The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A search bar is present with the text 'Search by Device ID'. The main content area displays a table with columns: Device ID, Status, Device Type, Class ID, Date Added, and Descriptive Location. The table contains one entry for device ID 27042002, which is 'Disconnected' and of type 'Renuka'. Below the table, a detailed view of the device is shown, including its identity, device information, recent events, state, and logs. The device information section lists: Device ID (27042002), Device Type (Renuka), Date Added (16 Nov 2022 09:55), Added By (922119106078@smartinternz.com), and Connection Status (Disconnected). The bottom of the screen shows a Windows taskbar with various application icons and a system clock indicating 06:12 PM on 19-11-2022.

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
27042002	Disconnected	Renuka	Device	16 Nov 2022 09:55	

Identity | Device Information | Recent Events | State | Logs

Device ID: 27042002
Device Type: Renuka
Date Added: 16 Nov 2022 09:55
Added By: 922119106078@smartinternz.com
Connection Status: Disconnected

Team member-3:

The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A search bar is present with the text 'Search by Device ID'. The main content area displays a table with columns: Device ID, Status, Device Type, Class ID, Date Added, and Descriptive Location. The table contains one entry for device ID Sha_26.15deviceid, which is 'Disconnected' and of type 'Sha_26.15'. Below the table, a detailed view of the device is shown, including its identity, device information, recent events, state, and logs. The device information section lists: Device ID (Sha_26.15deviceid), Device Type (Sha_26.15), Date Added (Oct 13, 2022 7:55 PM), Added By (922119106091@smartinternz.com), and Connection Status (Disconnected). The connection status details include: Last Connected: Nov 14, 2022 11:09 AM, Client Address: 50.31.197.64 Insecure, Duration: a few seconds, and Data Transferred: 670 B. The bottom of the screen shows a Windows taskbar with various application icons and a system clock indicating 10:52 on 19-11-2022.

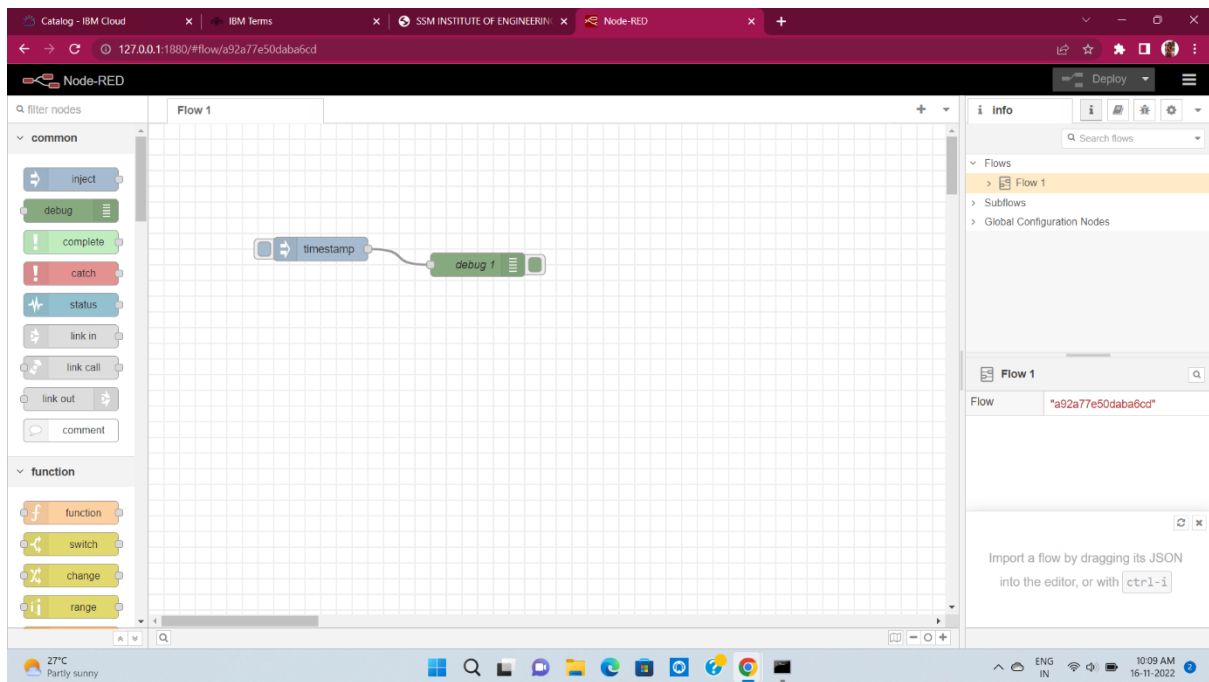
Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
Sha_26.15deviceid	Disconnected	Sha_26.15	Device	Oct 13, 2022 7:55 PM	

Identity | Device Information | Recent Events | State | Logs

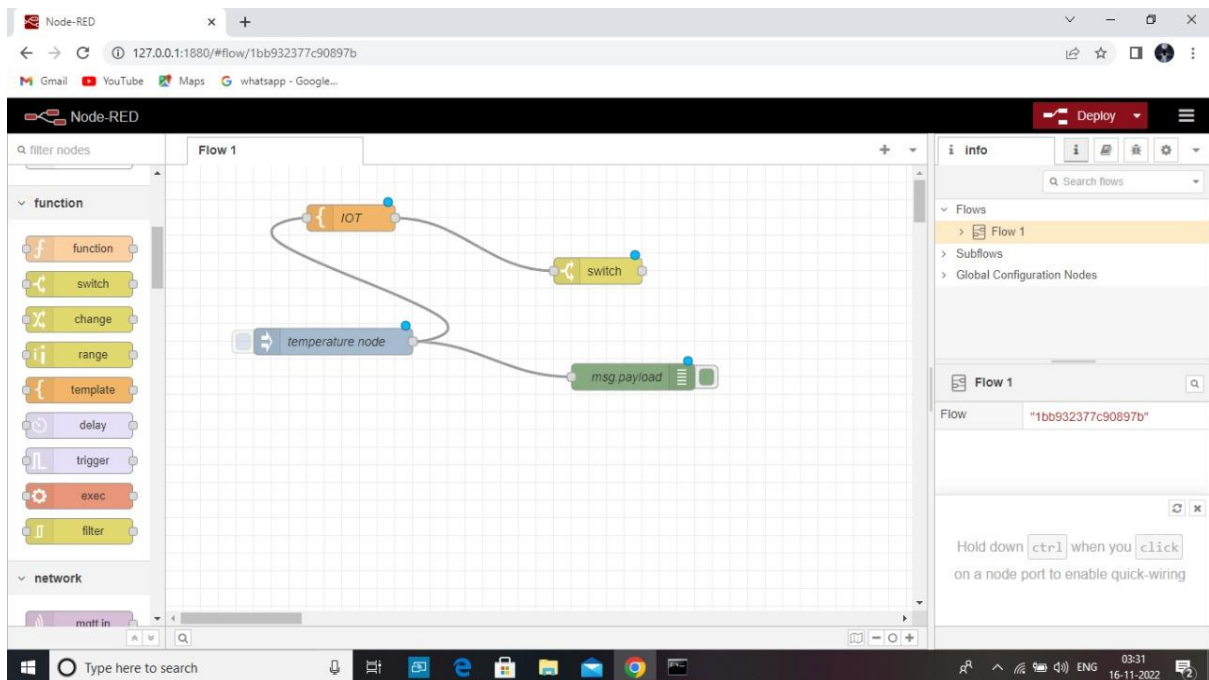
Device ID: Sha_26.15deviceid
Device Type: Sha_26.15
Date Added: Oct 13, 2022 7:55 PM
Added By: 922119106091@smartinternz.com
Connection Status: Disconnected
Last Connected: Nov 14, 2022 11:09 AM
Client Address: 50.31.197.64 Insecure
Duration: a few seconds
Data Transferred: 670 B

Create Node-RED Service:

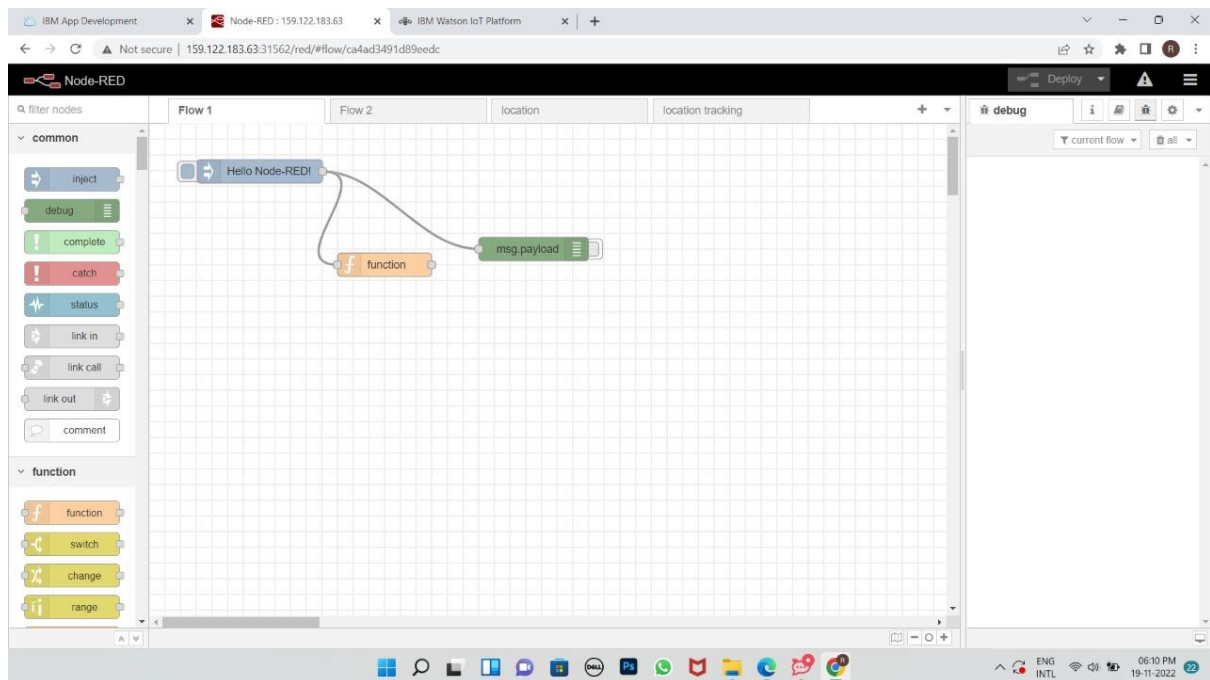
Team lead:



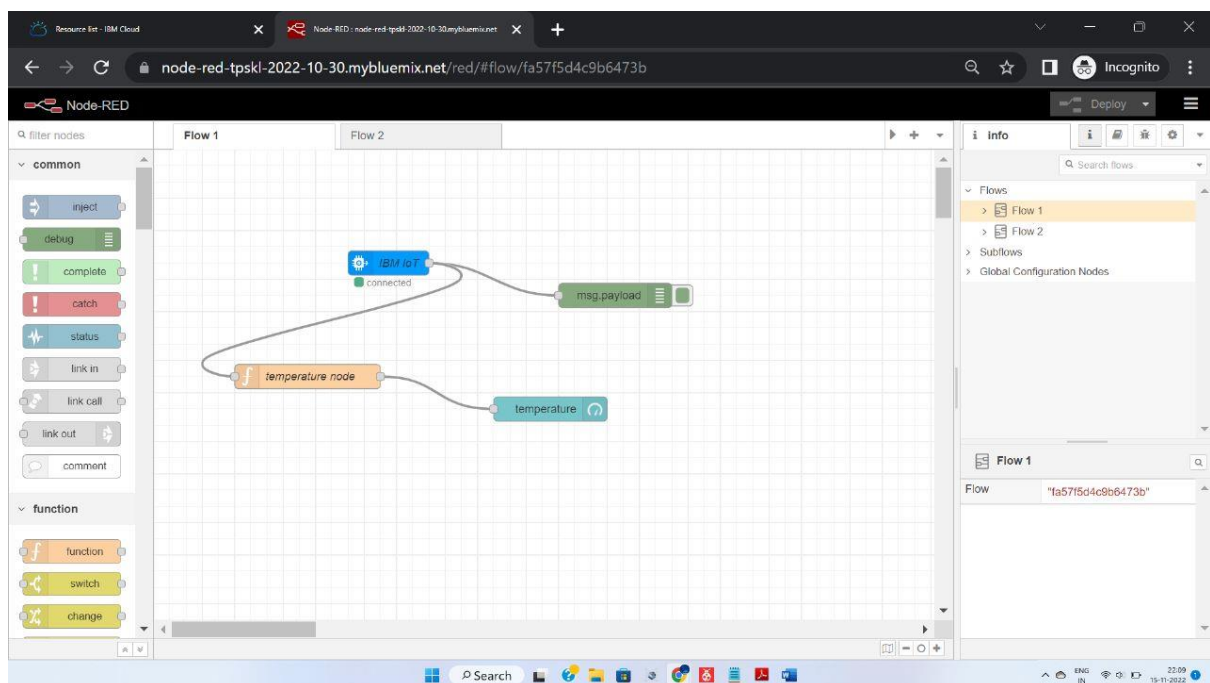
Team member-1:



Team member-2:



Team member-3:



PROJECT OBJECTIVES:

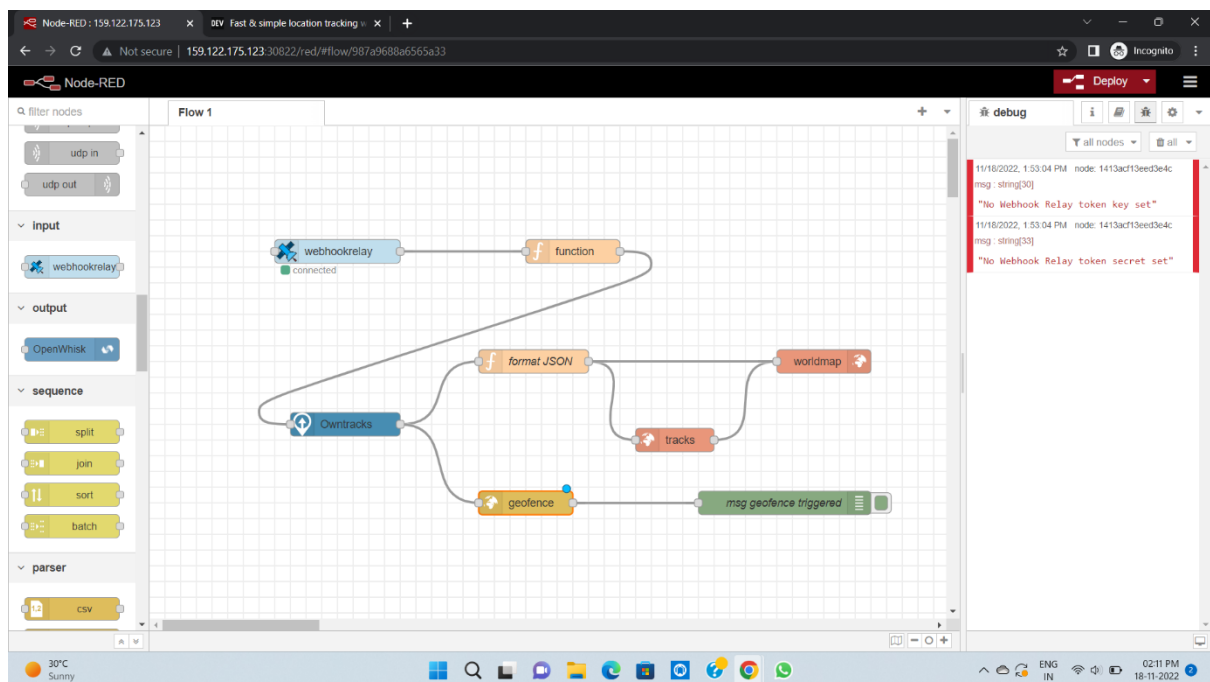
By the end of this project you will:

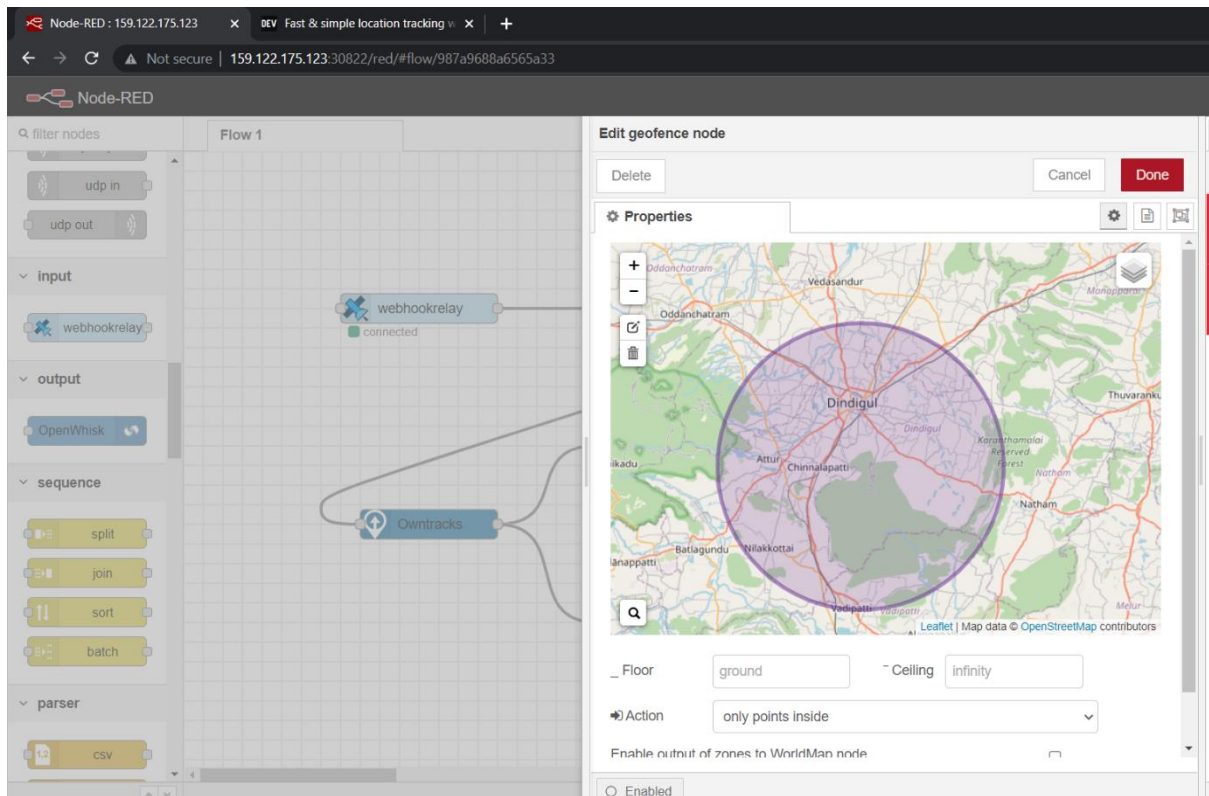
- Gain knowledge of Watson IoT Platform.
- Connecting IoT devices to the Watson IoT platform and exchanging the sensor data.
- Gain knowledge on Cloudant DB
- Gain Knowledge of geofence
- Creating a Web Application through which the user interacts with the device.

Project Flow:

- The GPS coordinates of the garbage bin will be sent to the IBM IoT platform
- The location of the bins along with bin status can be viewed in the Web Application

GPS Co-ordinate:





In Mobile View:

