Project Development phase
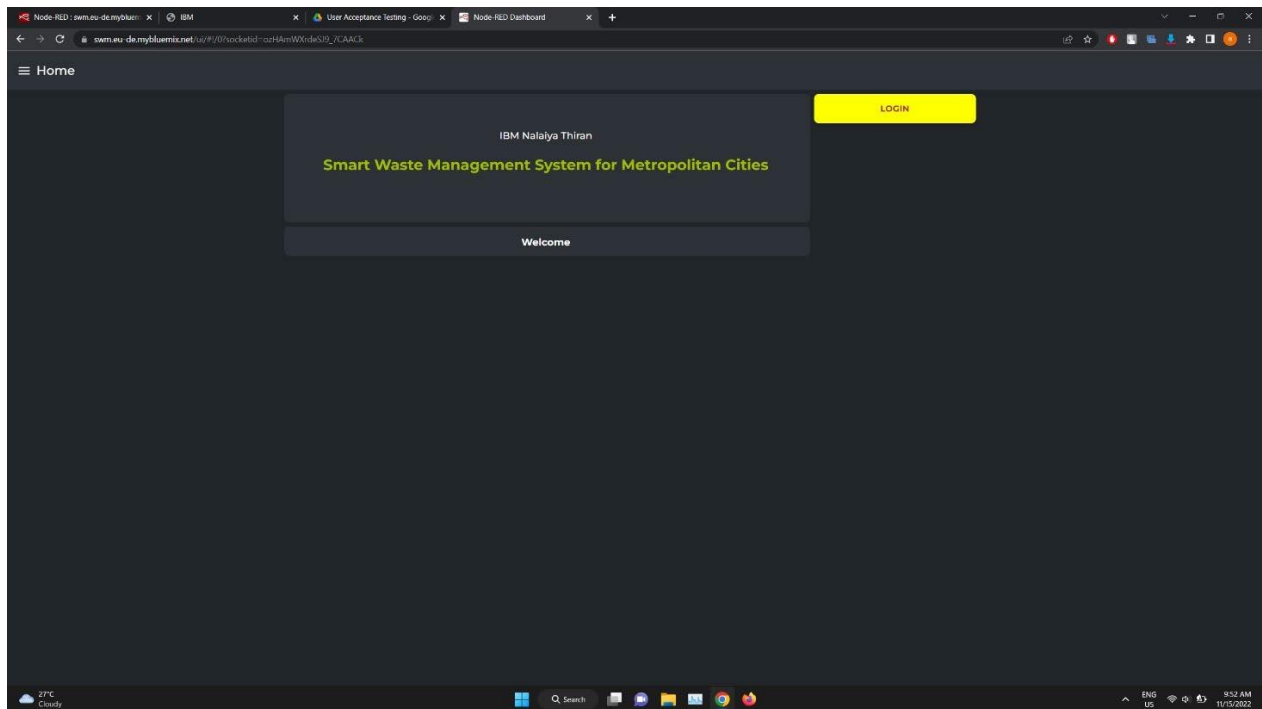## SPRINT 4

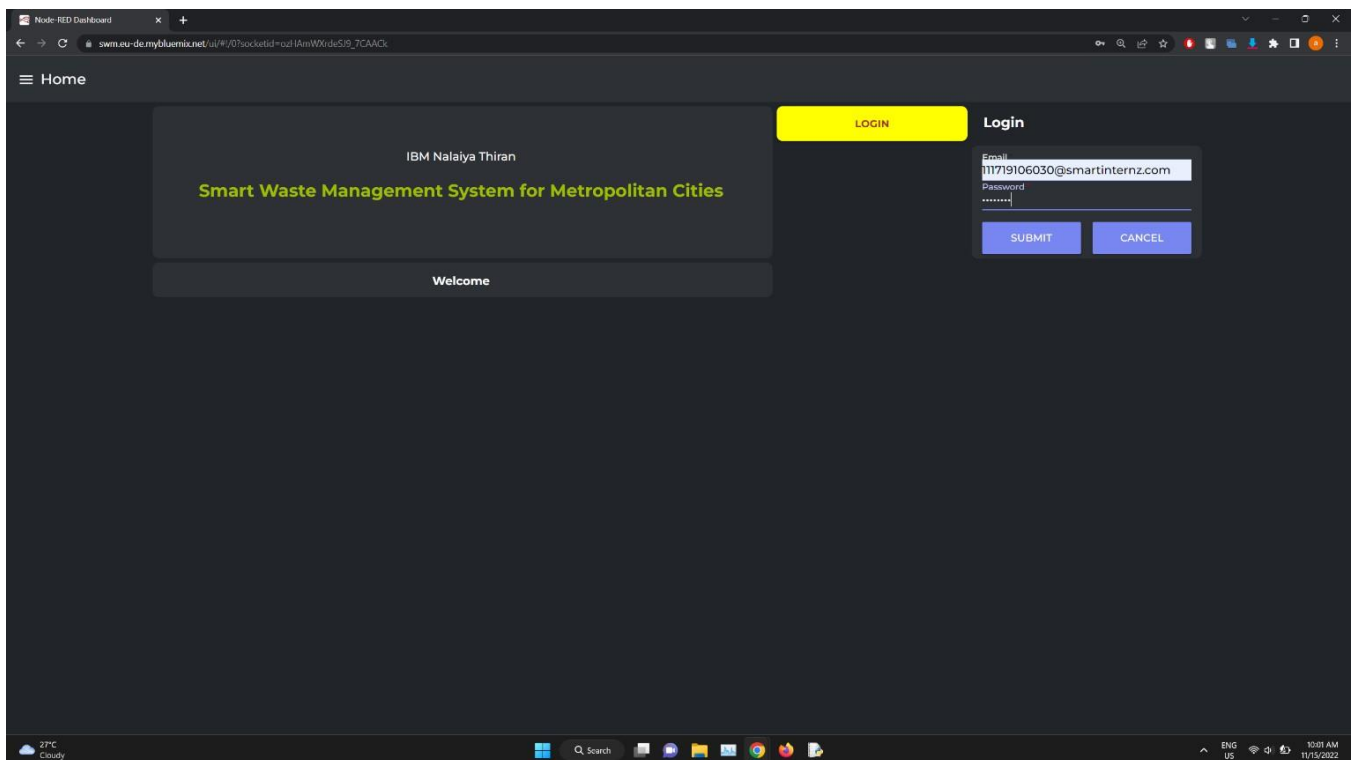| Date	16 November 2022
Team ID	PNT2022TMID03704
Project Name	Project – Smart Waste Management for Metropolitan cities
Maximum Marks	2 Marks

In this Sprint phase 4,

- o We have created Truck Driver's Page where we can see the dashboard.
- o We have also used API to get the Address of the given latitude and longitude which is commonly called as **Reverse Geolocation.**
- o We have also added Email service in which once the Dustbin get filled up Email will be sent automatically to the respective person.
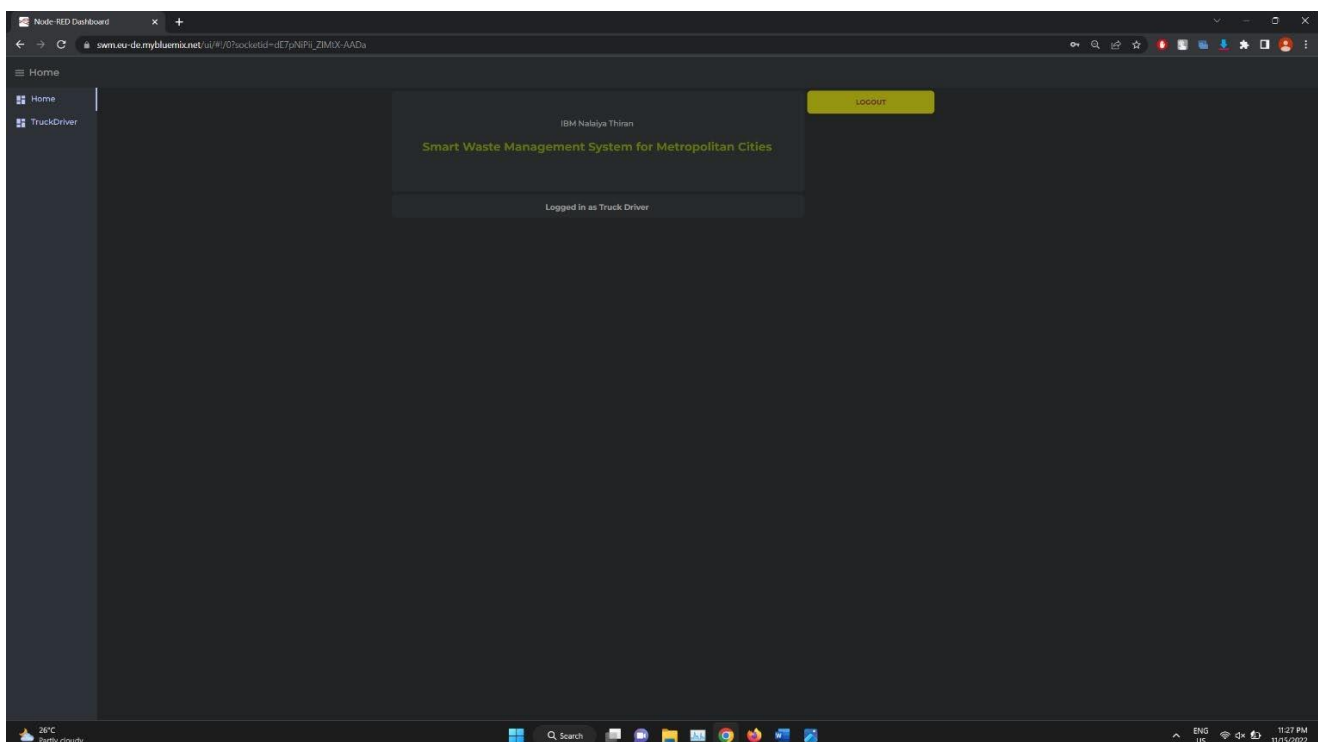
Home Page

Login Page:

Once we click on the login button, we can see the Login window appears in the right side. Now we need to enter the Truck Driver credentials.
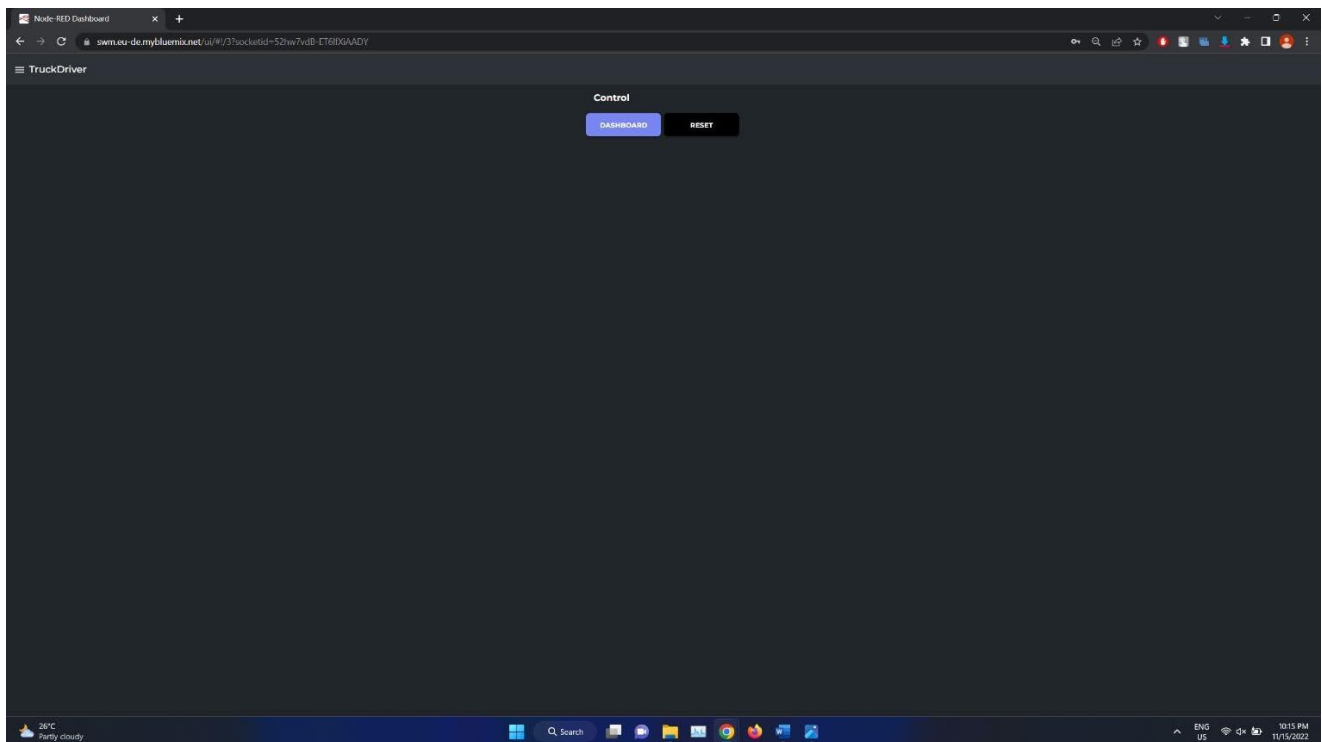

Once we successfully logged in, we can see the below status changed into Logged in as Truck Driver and we can see the Truck Driver tab appears.

Truck Driver Page:

This is the Truck Driver page, here we can see different buttons.

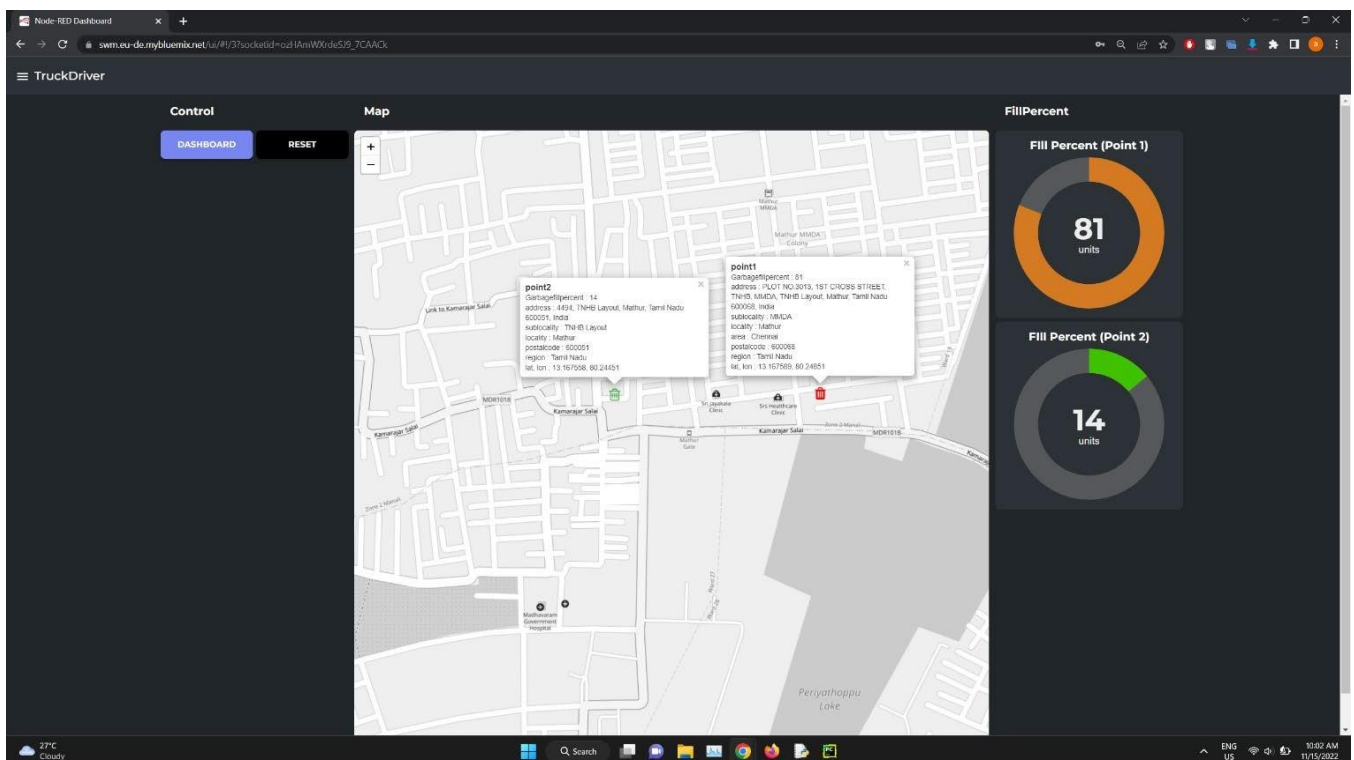| Button	Functionalities
Dashboard	To view the map, dustbin level etc
Reset	To close all the groups opened (i.e., Dashboard)

Dashboard:

Note: Here I have used two dustbins. So, we can see both of their Trash Fill percent in their particular location.

By clicking the dashboard button, we can view the dashboard.

Here we can see the map and the Fill percent for both the garbage bin. By clicking on the icon in the map we can see the details like

- Fill percent
- Address
- Sub locality
- Postal code
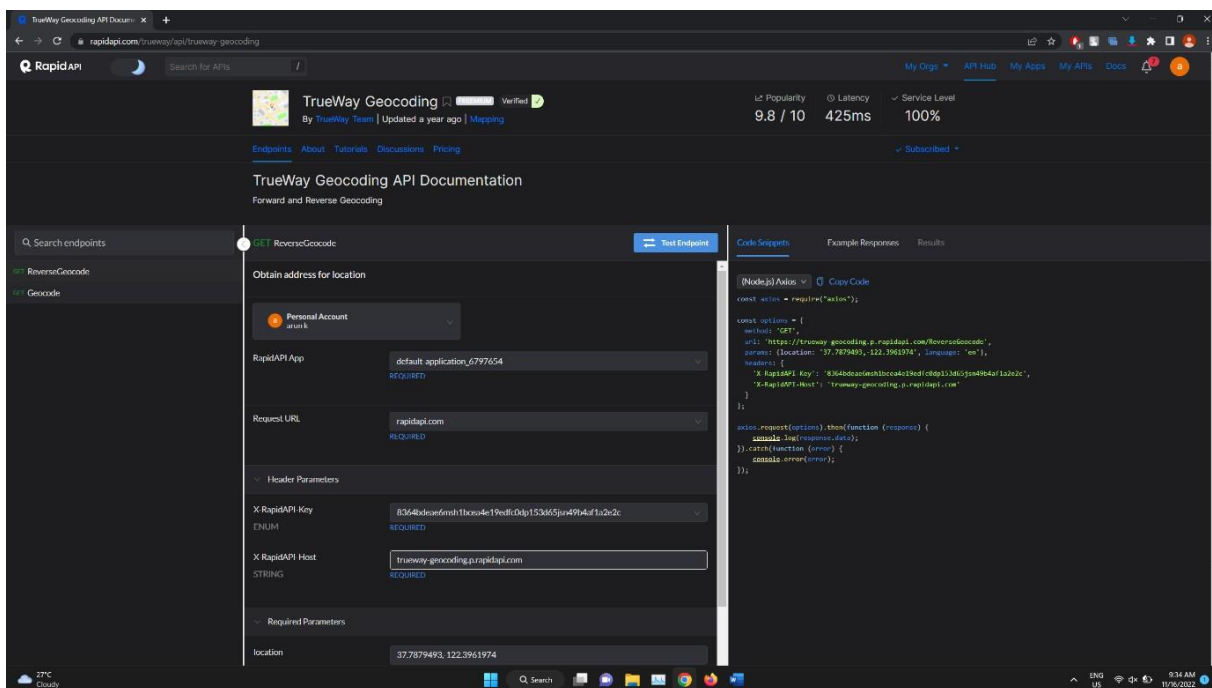- Region
- Latitude, longitude

Note: Here once the bin level crosses their threshold level (here I have set as 60%) the icon colour changes to **Red**. if it is below the threshold the icon colour changes back to **Green**.
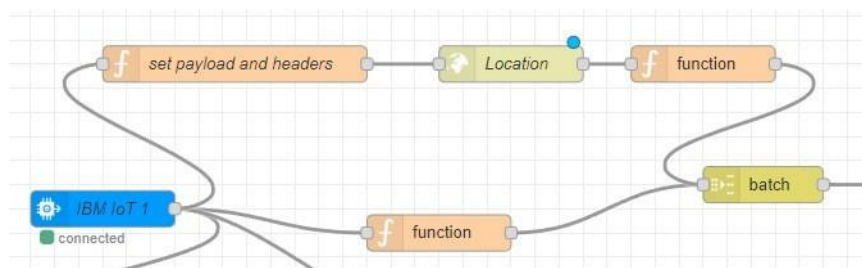
Reverse Geo location:

For Reverse Geo location we can convert the latitude and longitude to a JSON format. And from that we have modified the JSON file into our desired file.
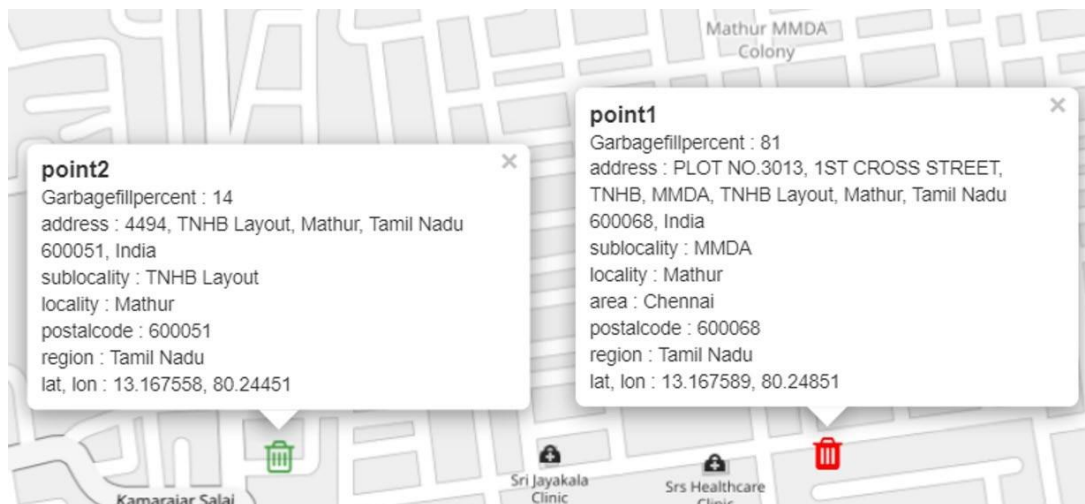
This is the Website where I've logged in and I have used the API service.

This is the flow where we pass latitude and longitude value and we get the JSON file as output and we modify the JSON value and then we pass them to WORLD MAP node.
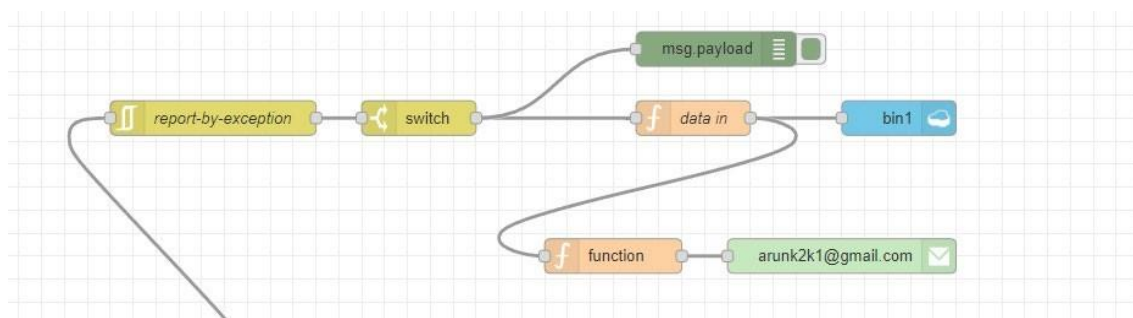
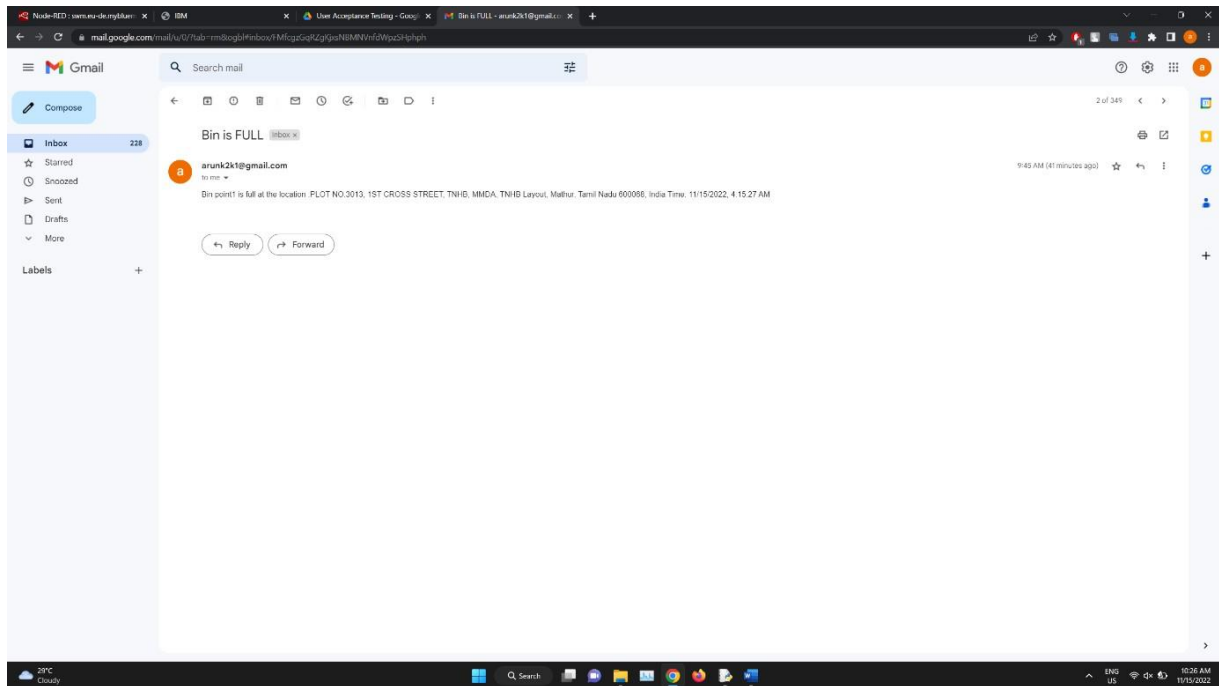Here you can see the output of the world map.

Email Service:

- We have used email node for sending emails.
- The mail is sent only when the BIN gets filled to 100%.

Samples of the Email sent:

This is the Email sent when the **BIN 1** was filled to 100%.

This is the Email sent when the **BIN 2** was filled to 100%.