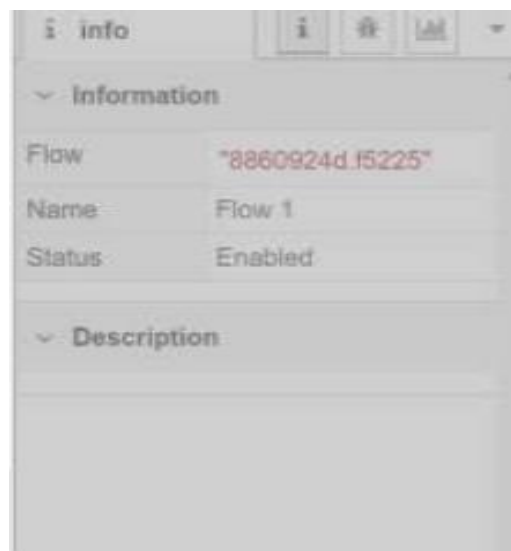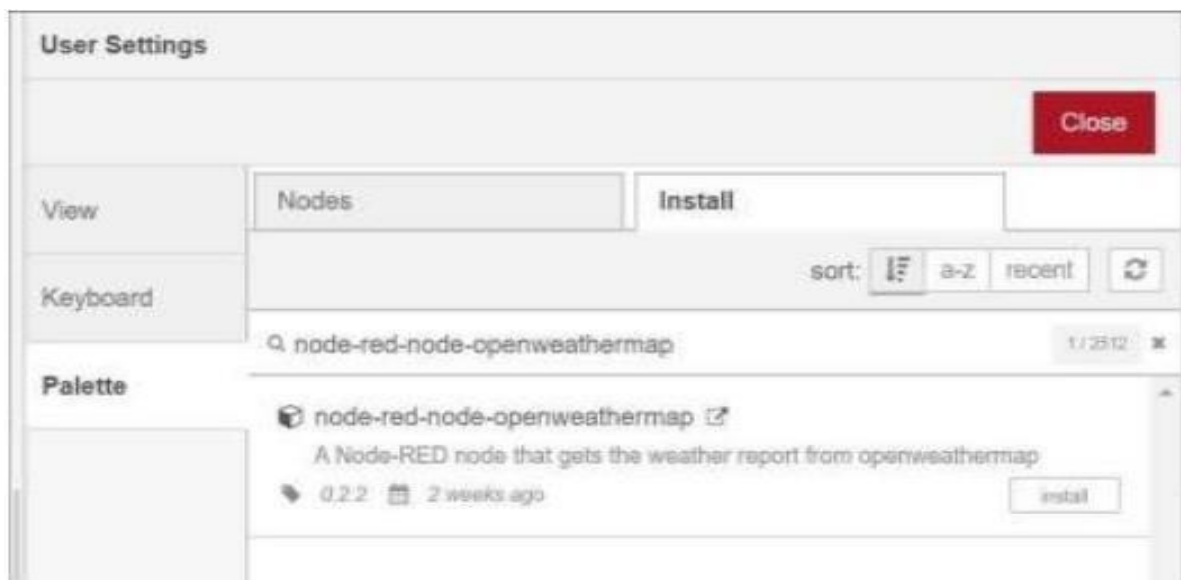# Develop a web Application using node-red

Team Id	PNT2022TMID51580
Project Name	Real-Time River Water Quality Monitoring and Control System

Solution

1. Double-click the tab with the flow name, and call it Earthquake Details.
2. Click the hamburger menu, and then click Manage palette.
3. Look for node-red node-
4. Open the weather map to install these additional nodes in your palette.
5. Add an HTTP input node to your flow.
6. Double-click the node to edit it.
7. Set the method to GET and set the URL to /earthquakeinfo-hr.
8. Add an HTTP response node, and connect it to the previously added HTTP input node. All other nodes introduced in this sub-section is to be added between the HTTP input node and the HTTP response node.
9. Add an HTTP request node and set the URL to https://earthquake.usgs.gov/earthquakes/feed/v1.0/summary /all_hour.geojson, the Method to GET and the Return to a parsed JSON object. This will allow extracting all earthquakes that occurred within the last hour.
10. Name this node Get.
11. Add a change node. Double-click the node to modify it.
12. Name this node Set Earthquake Info.
13. In the Rules section, add rules to Delete
    - msg. topic
    - es msg. headers
    - msg.statusCode
    - msg.responseUrl
    - msg.redirect list

```
"type": properties. type
"magnitude": properties.mag
"location": properties.place,
"longitude":geometry.coordinates[0],
"latitude":geometry.coordinates[1],
"depth":geometry.coordinates[2]
"timestamp": $fromMillis( properties.time)
```

User Settings

Close

View	Nodes	Install

sort: | ↓₹ | a-z | recent | ⟳ |

🔍 node-red-node-openweathermap   1/2512 ✖

📦 node-red-node-openweathermap ↗
    A Node-RED node that gets the weather report from openweathermap
🏷 0.2.2 📅 2 weeks ago   install

ℹ info   i ⌂ ☰ ▾

∨ Information

Flow	"8860924d.f5225"
Name	Flow 1
Status	Enabled

∨ Description

Edit http request node

Delete   Cancel   **Done**

⚙ **Properties**   ⚙ ▤ ▦

▤ Method   GET   ▾

◉ URL   https://earthquake.usgs.gov/earthquakes/feed/v1./

☐ Append msg.payload as query string parameters

☐ Enable secure (SSL/TLS) connection

☐ Use authentication

☐ Enable connection keep-alive

☐ Use proxy

← Return   a parsed JSON object   ▾

🏷 Name   Name

Tip: If the JSON parse fails the fetched string is returned as-is.

ℹ **info**   i 🐞 ▥ ▾

∨ **Information**

Node   "c7419935.8192a8"

Type   http request

                                   show more ▾

∨ **Description**

∨ **Node Help**

Sends HTTP requests and returns the
response.

∨ **Inputs**

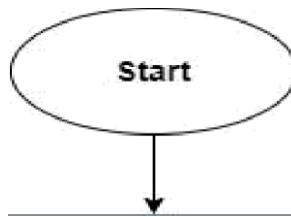*url*   *string*
If not configured in the node, this
optional property sets the url of the
request.

method   *string*

                                   ⟳ ✕

Hold down ctrl when you

click on a node to add or

remove it from the current

```
                    ┌─────────────┐
                    │    Start    │
                    └──────┬──────┘
                           │
                           ▼
```

Create a web application called realtime river quality monitoring system

It monitors water's conductivity, pH, tu rbidity and other parameters

Based on the monitored datas on water parameters the results are analy sed

By the results i n the internet the q uality is monitored

Qua\ity is not
on the required
level

Counter Meaures are taken to improve the quality of the water

All d iseases in water are identified and prevented from spread

```
                    ┌─────────────┐
                    │    Stop     │
                    └─────────────┘
```