

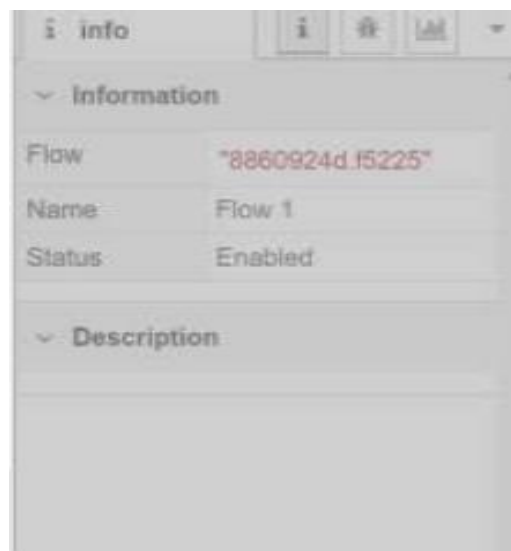
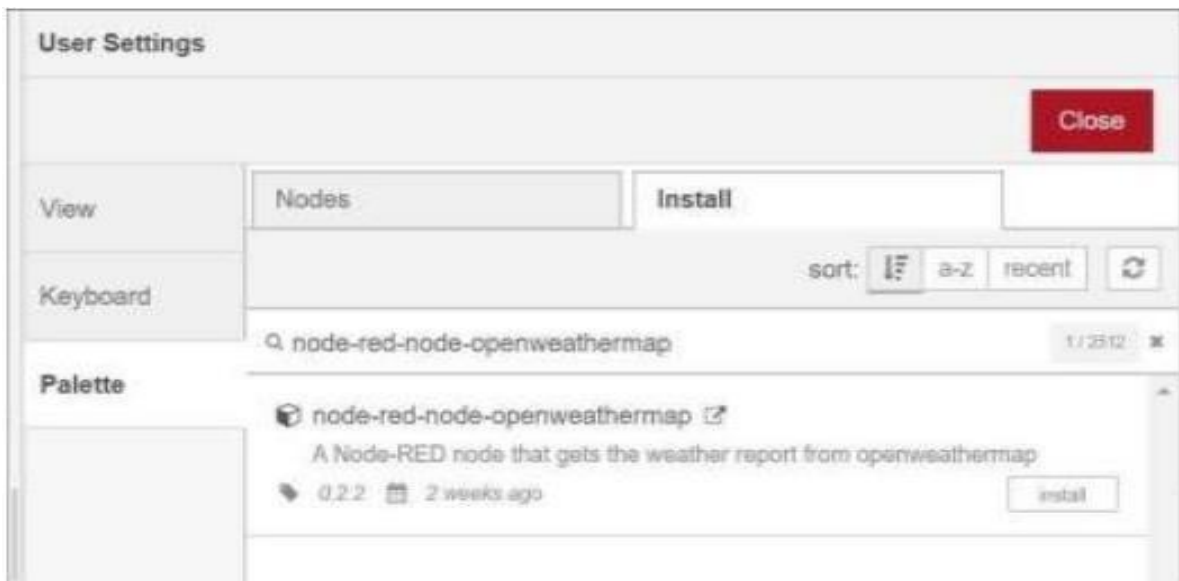
## Develop a web Application using node-red

Assignment date	10 November 2022
Team Id	PNT2022TMID50000
Project Name	Real-Time River Water Quality Monitoring and Control System
Maximum marks	4 marks

### 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](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)
```



Edit http request node

Delete

Cancel

Done

⚙ Properties

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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.

Info

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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

