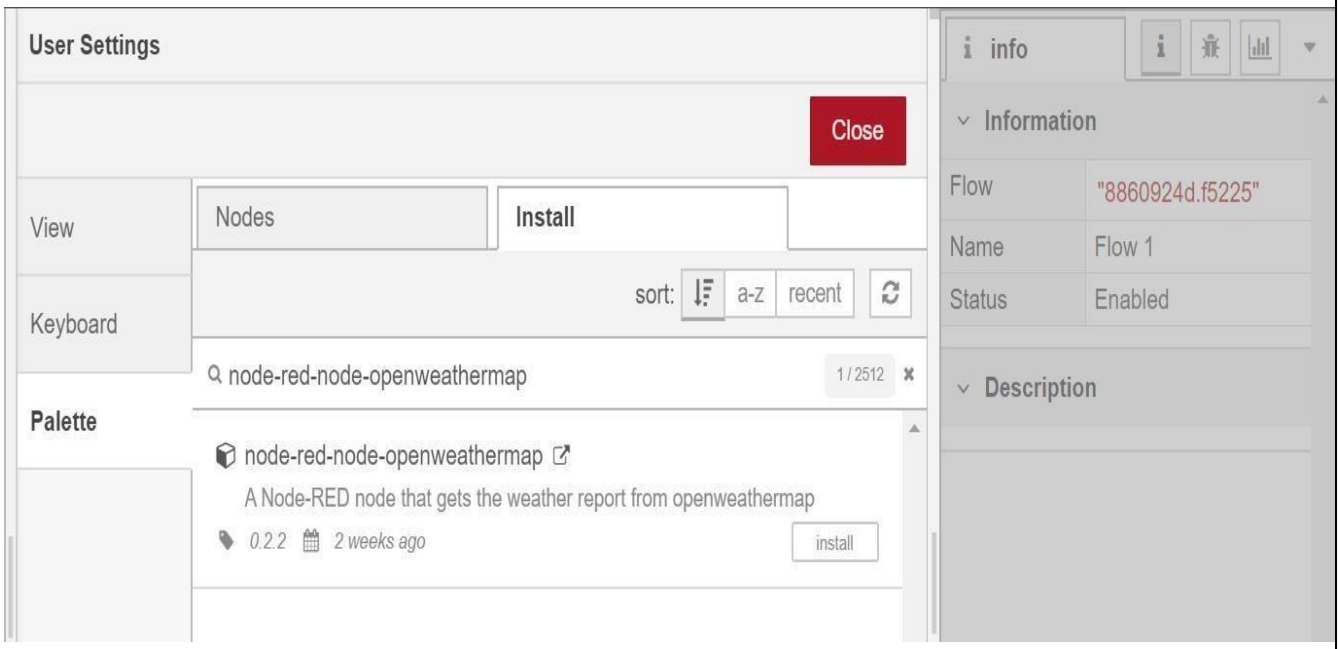
**PROJECT NAME**: REAL-TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM

**TEAM ID :** PNT2022TMID01820

## Develop the Web Application using Node – RED

1. Double-click the tab with the flow name, and call it Earthquake Details.
2. Click the hamburger menu, and then click Manage palette.
   Look for node-red-node-openweathermap to install these additional nodes in your palette.




Add an HTTP input node to your flow.

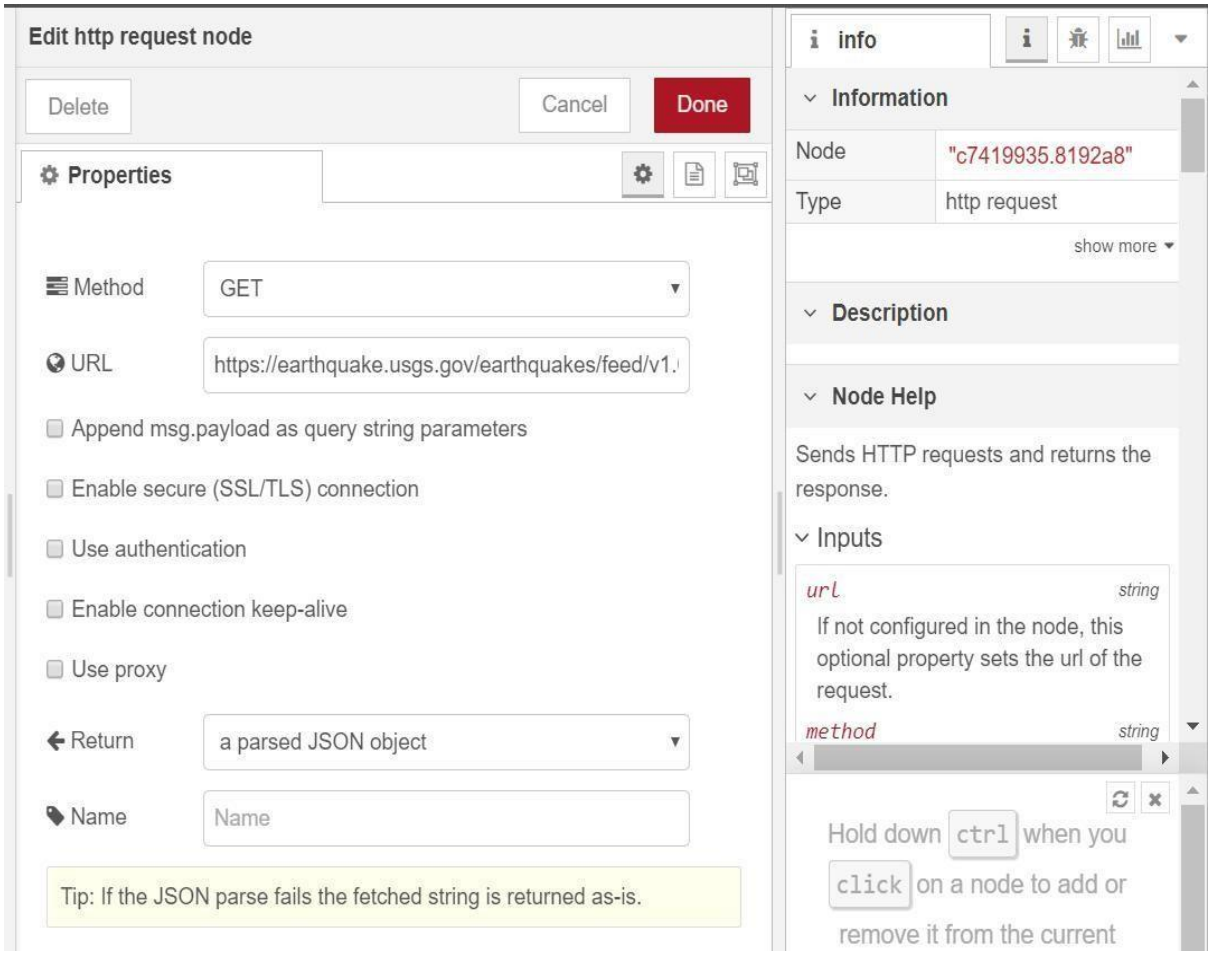
Double-click the node to edit it. Set the method to GET and set the URL to /earthquakeinfo-hr.

1. 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 HTTPinput node and the HTTP response node.

2. 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. Name this node GetEarthquake Info from USGS.



Add a change node. Double-click the node to modify it. Name this node Set Earthquake Info. Inthe Rules section, add rules

to Delete msg.topic, msg.headers, msg.statusCode, msg.responseUrl and msg.redirectListand Set msg.payloadpayload.features.

```
{
    "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,
        '[H01]:[m01]:[s01] [z]',
        '+0400'
    ),
    "source":  properties.net
}
```

the following JSONata expression.