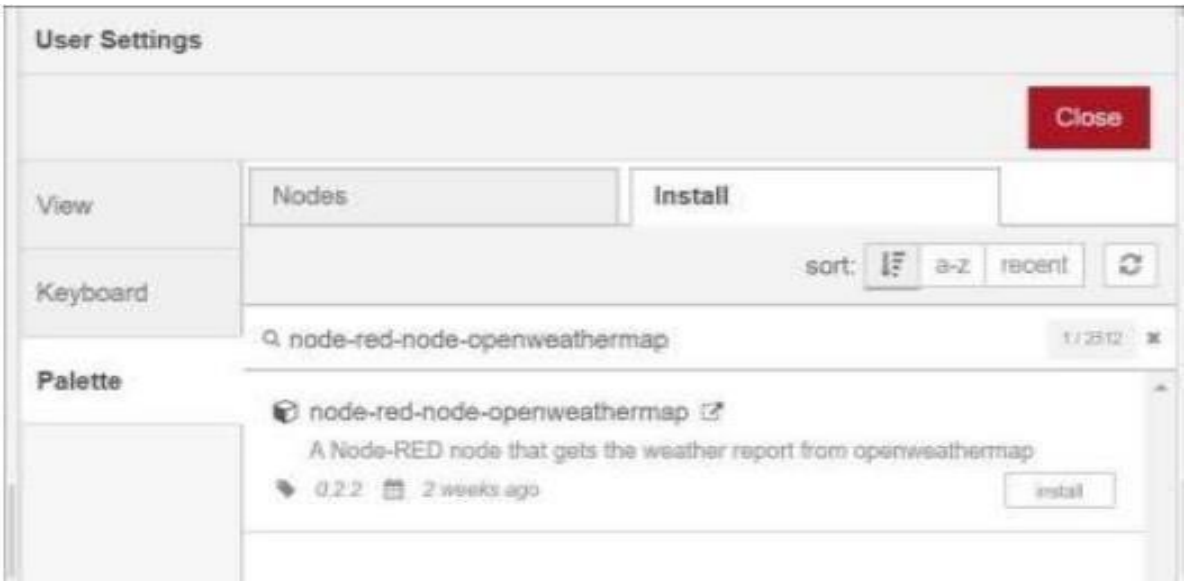
Develop a web Application using node-red

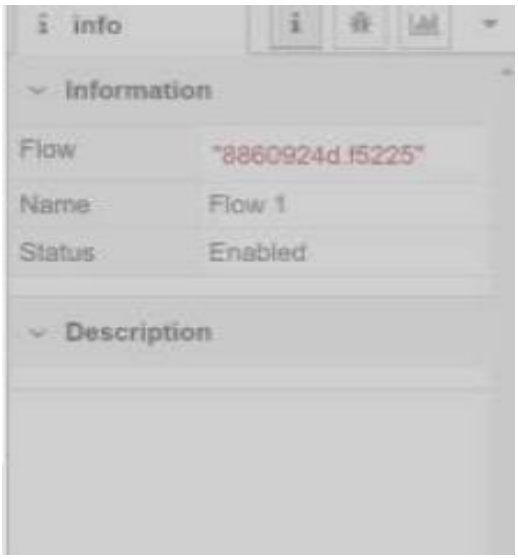
Assignment date	17 November 2022
Team Id	PNT2022TMID04601
Project Name	Real-Time River Water Quality Monitoring and Control System
Maximum marks	4 marks

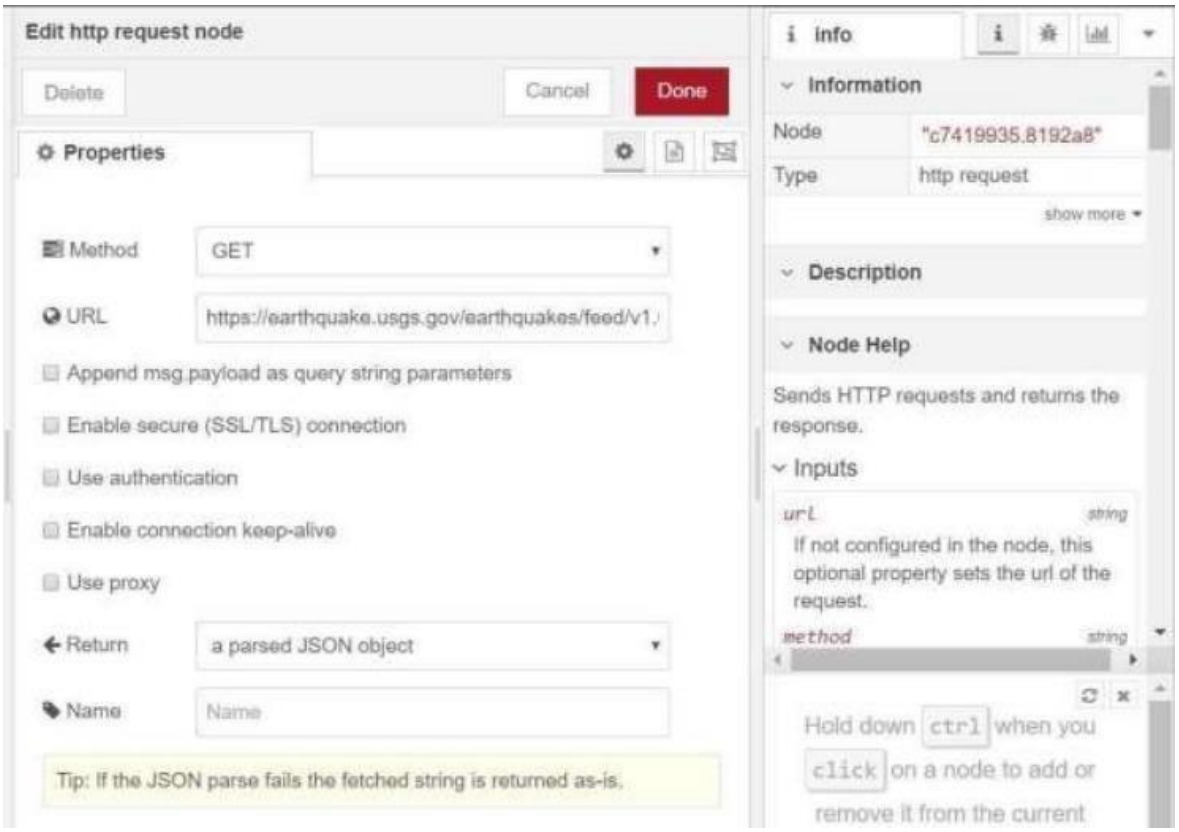
Solution

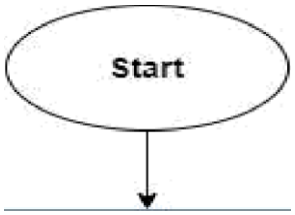
1. Double-click the tab with the flow name, and call it Earthquake Details.
2. Click the hamburger menu, and then click Manage palette.
3. Look for node-red node-
4. Open the weather map to install these additional nodes in your palette.
5. Add an HTTP input node to your flow.
6. Double-click the node 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, 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
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
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



Create a web application called realtime river quality monitoring system

It monitors water's conductivity, pH, turbidity and other parameters

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

By the results in the internet the q uality is monitored

Quality is not on the requirecf level

Counter Meaures are taken to improve the quality of the water

All d is eases in water are identified and prevented from spread