**Node-RED Part**

The Node-RED part of our system has three main stages, which are listed below.

Get the weather condition of the location

* Using MQTT In node, we get the garden location from the MQTT broker.
* We use <https://test.mosquitto.org/> as our MQTT broker.
* To get weather information at the given location, we use the OpenWeatherMap node.
* <https://openweathermap.org/> Provides real-time weather details to the OpenWeatheMap node.
* Using the MQTT Out node, we send the weather details of the given location to the MQTT broker.
* NodeMCU then retrieves the weather details from the MQTT broker.

Get the garden location

Send weather data to the NodeMCU

Graphical user interface, diagram

Description automatically generatedThe nodes arrangement of our flow is as follows.