**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

The nodes arrangement of our flow is as follows.

A picture containing graphical user interface

Description automatically generated