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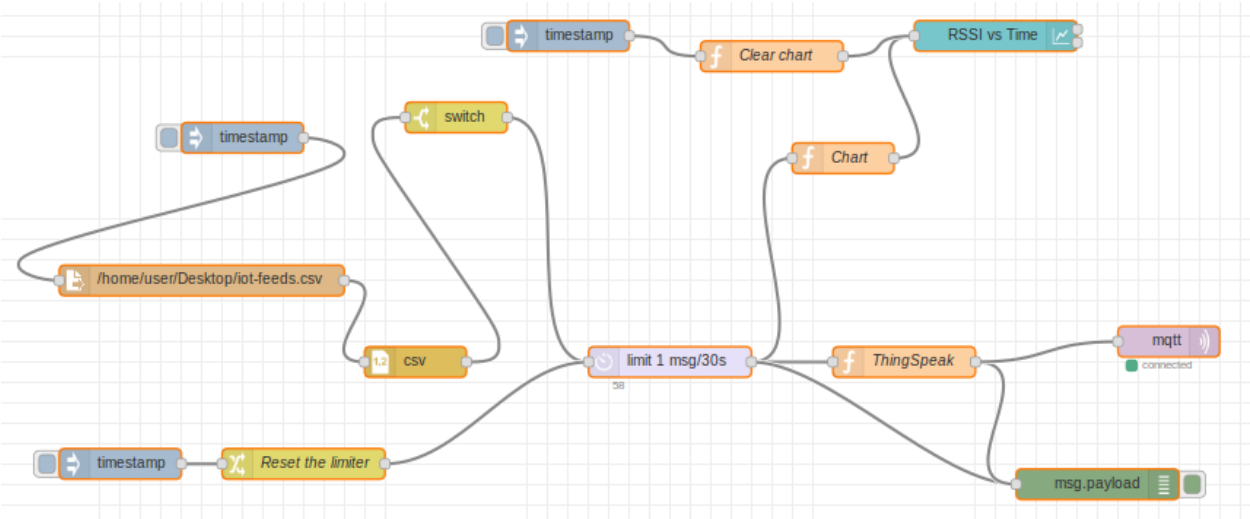
Using the following example https://flows.nodered.org/flow/5bca514f463320c82ad7aecce6457193, I modified it for the purpose of the challenge. Inside the file node I inserted the destination of the full csv file (desktop of the vm). Then in the csv node I identified the fields and the separator (,). Using my 4 last digits of ID and the switch node I filtered out all the unnecessary rows and added a rate limiter 1/30 sec (with a button to reset the limiter in case something goes wrong). In order to create a RSSI chart, I used a function node to set the payload to field 5 value. Since it is useful to clean the chart, I also created an inject node with a function which sends an empty payload to clear it up. To set up everything for the ThingSpeak, similarly to the lab in class, I created a function node with a topic using the ID of my channel and set the payload to a concatenation of the fields with the status. Finally, I inserted my user id, password and username from the ThingSpeak file in a MQTT node.



The channel (Challenge 2, https://thingspeak.com/channels/1712709) had been set up as before: created 3 charts with a lamp per each (having specified the working conditions), set to public and added a MQTT device to the channel (Challenge 2 device).