

After logging in to the TTN console, this is how we had our data in terms of Temperature and Humidity as given in the Figure 2.

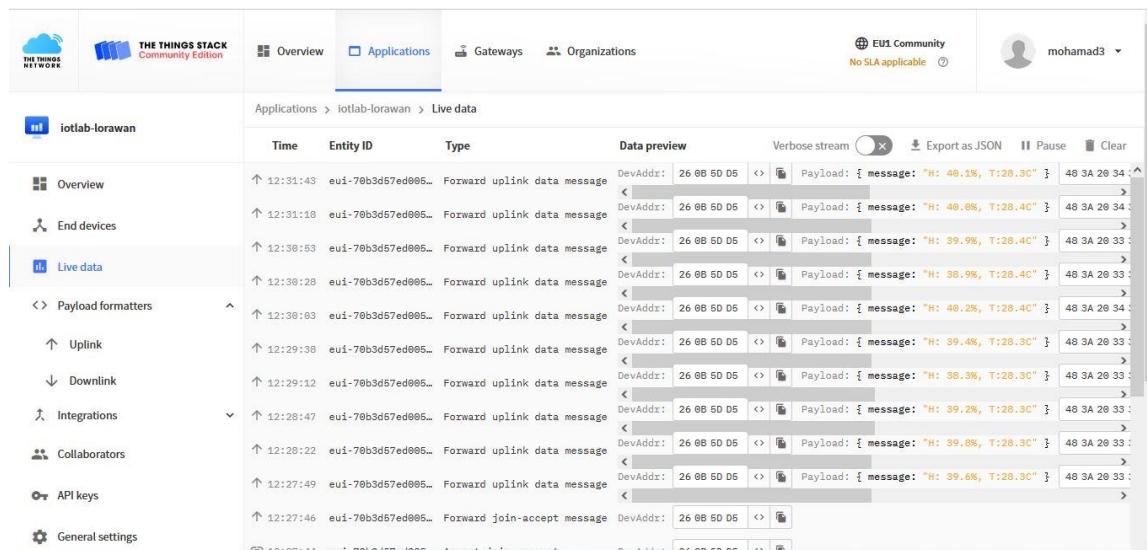


Figure 2: Temp. and Humidity data from the sensor on TTN

Web dashboard

In the next step, we had improved our Data Visualization using an integration of Cayenne dashboard to The Things Network by going through an example as given on TTN website namely **ttn-cayenne-lpp**. After following each steps as given in that example to visualize the data in Cayenne dashboard, for example by adding a New device→ LoRa→ The Things Network→ Semtech LoRa and putting device EUI.

In order to give our sensor data to Cayenne, we need to set our data in form of Cayenne by doing TTN→ Payload Formats→ Cayenne Low Power Payload (LPP).

After that we went to Webhook →Add →Cayenne. Then, we were ready to see our data on Cayenne Dashboard as given in figure 3. We also put threshold value in terms of Temperature, e.g. If our temperature exceeds our threshold value, we'll be notified using E-mail or SMS.

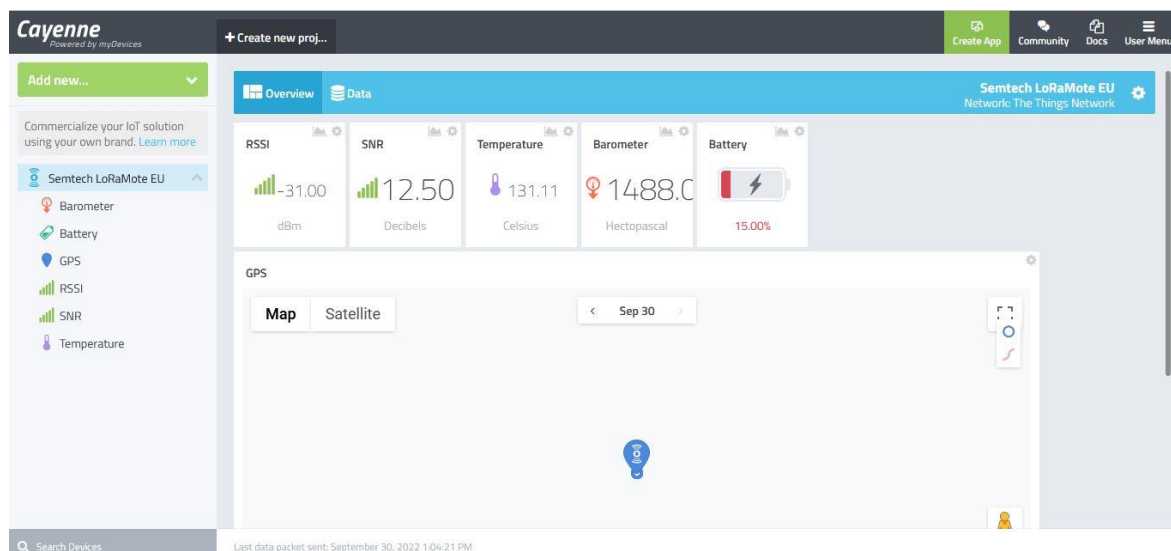


Figure 3: Overview of our Sensor's data in Cayenne dashboard