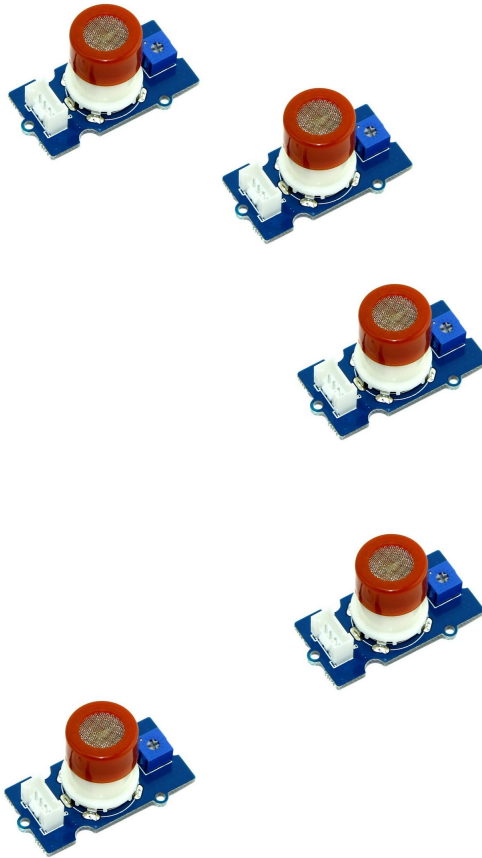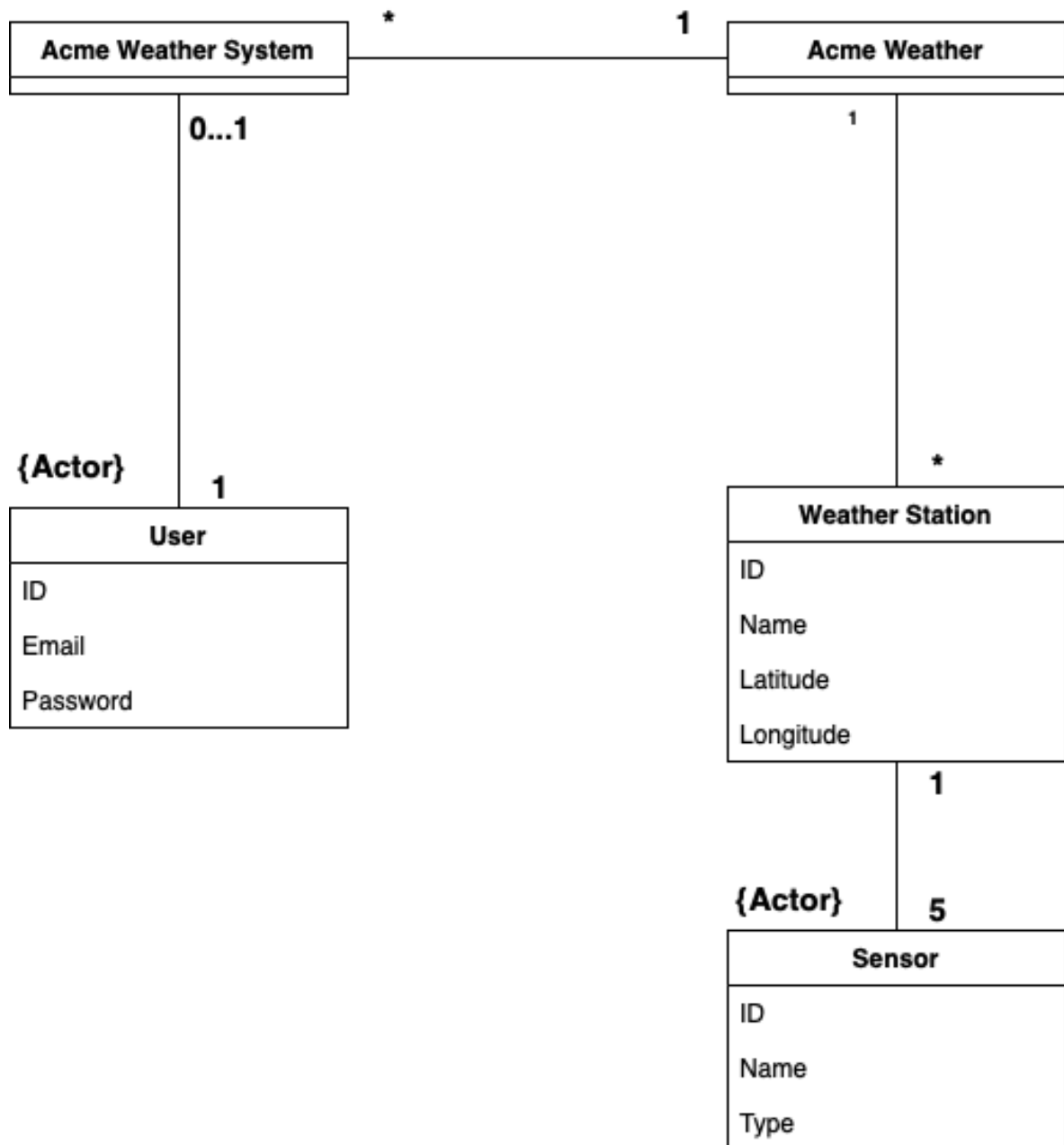# Scenario:

We want to simulate a scenario when a number of stations connected to 5 types of sensors (humidity, temperature, windDirection, windIntensity and rainHeight), collecting data through the MQTT protocol using Azure IOT Hub for telemetry analytics, a storage for collecting logs and a web service to display the latest data received.

Domain:

Acme Weather System
*   1

Acme Weather System —————————— **Acme Weather**

0...1

{Actor}   1

User
ID
Email
Password

1

Weather Station
ID
Name
Latitude
Longitude

*

1

{Actor}   5

Sensor
ID
Name
Type

Use Case 1: A sensor sending telemetry

Sensor → :System : sendData(sensorID,data)

:System → :AzureIOTHub : sendData(sensorID,data)

:AzureIOTHub ⇠ :System : 200, ok

:System → :Storage : registerLog(sensorID,data)

:Storage ⇠ :System : 200, ok

:System ⇠ Sensor : 200, ok