Use Cases

      Actor: **User**

**UC-U1**: The user does not like the temperature in the room and changes it.

**UC-U2**: The user notifies technicians for a bug in the ventilation box.

**UC-U3**: User notifies cleaners that the ventilation box should be cleaned.

      Actor: **Technician**

**UC-T1**: Technician fixes a technical problem in the system.

**UC-T2**: Technicians make a routine maintenance check.

      Actor: **Cleaners**

**UC-C1**: The cleaners clean the ventilation system

      Actor: **CO2 sensor**

**UC-CO1**: CO2 level is too high and triggers the fan

**UC-CO2**: CO2 sensor has a malfunction

      Actor: **Temperature sensor**

**UC-TP1**: Temperature is too high and triggers the fan

**UC-TP2**: Temperature sensor has a malfunction

      Actor: **Humidity sensor**

**UC-H1**: Humidity levels are too high and trigger the fan

**UC-H2**: Humidity sensor has a malfunction

      Actor: **Particulate matter sensor**

**UC-P1**: Particulate matter levels are too high and trigger the fan

**UC-P2**: Particulate matter sensor has a malfunction

      Actor: **ZigBee**

**UC-ZB1**: ZigBee communication fails

Use Cases Diagram

