A screenshot of a cell phone

Description automatically generated

**Comfort Home Project**

System Design

T2-CB01

Group 4

2019/2020

To build up such a system, we will use the following components:

**The selected software components to build up the system:**

* C#.Net Framework to program the Ventilations Box app.
* Arduino Framework together with the Nucleo F-303RE.

**The selected hardware components to build up the system:**

* Nucleo F-303RE board/s.
* Airios Sensor Shield:
  + ETRX357 Zigbee module.
  + Cubic CM1106 CO2 sensor.
  + Sensirion SHT30 humidity/temperature sensor.
  + AMS IAQCore VOC sensor.

**Here is a detailed system design for each subsystem to demonstrates how it was built and how it works:**