USE CASE DESIGN

SIT225 9.1P
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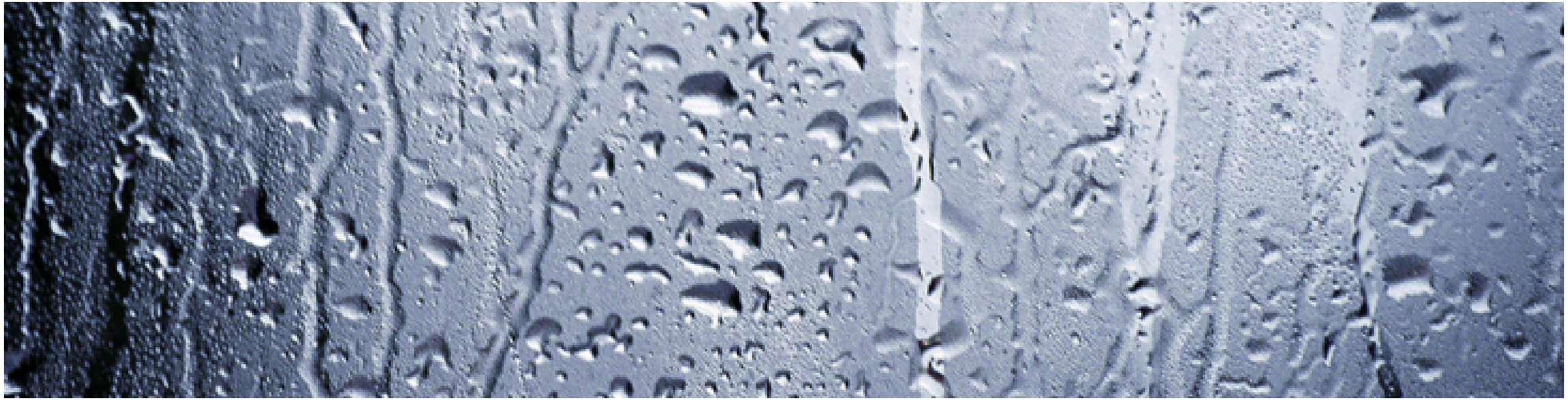


Problem Statement

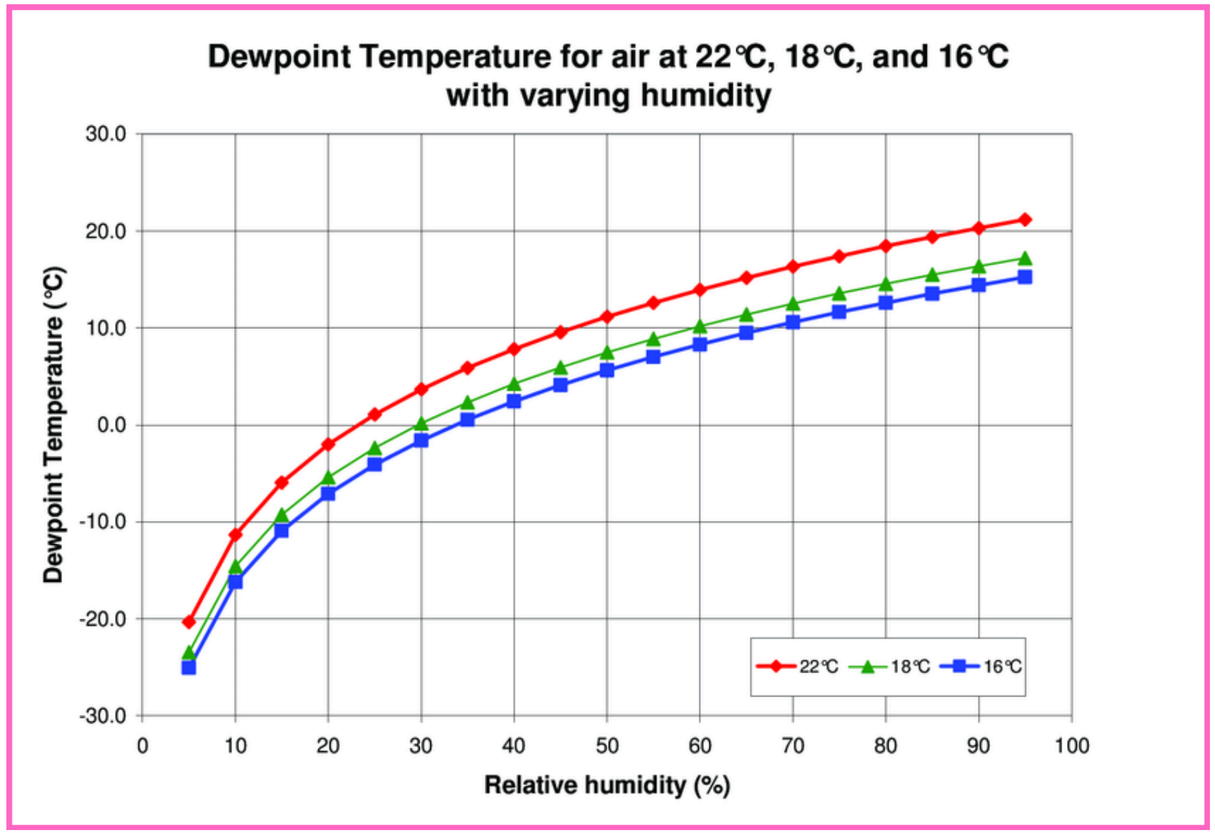
In this project, I have chosen one goal:
receive an alert when a room is at the dew point.

I discussed with my family - what's a problem in our house that I could solve?

The answer? CONDENSATION

Existing methods

If these exist...
Why make another?



Dew Point

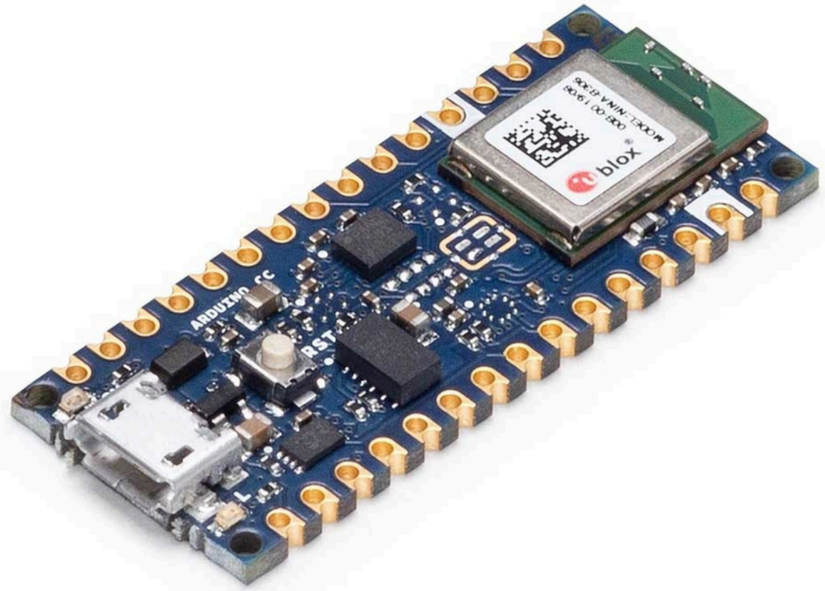
Other products fail to consider the dew point

$$t_d \approx t - \left(\frac{100 - \mathrm{RH}}{5} \right),$$

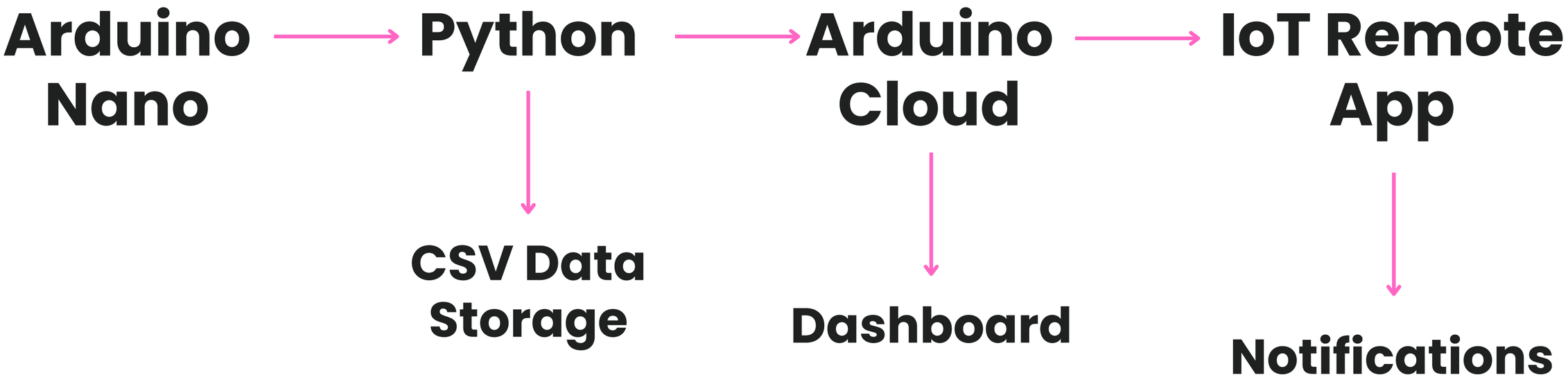
Using Arduino, we can calculate the dew point and get an alert only when necessary

Arduino Nano

To achieve our goal, we will use Arduino, Python, The Arduino IoT Cloud and the IoT Remote App

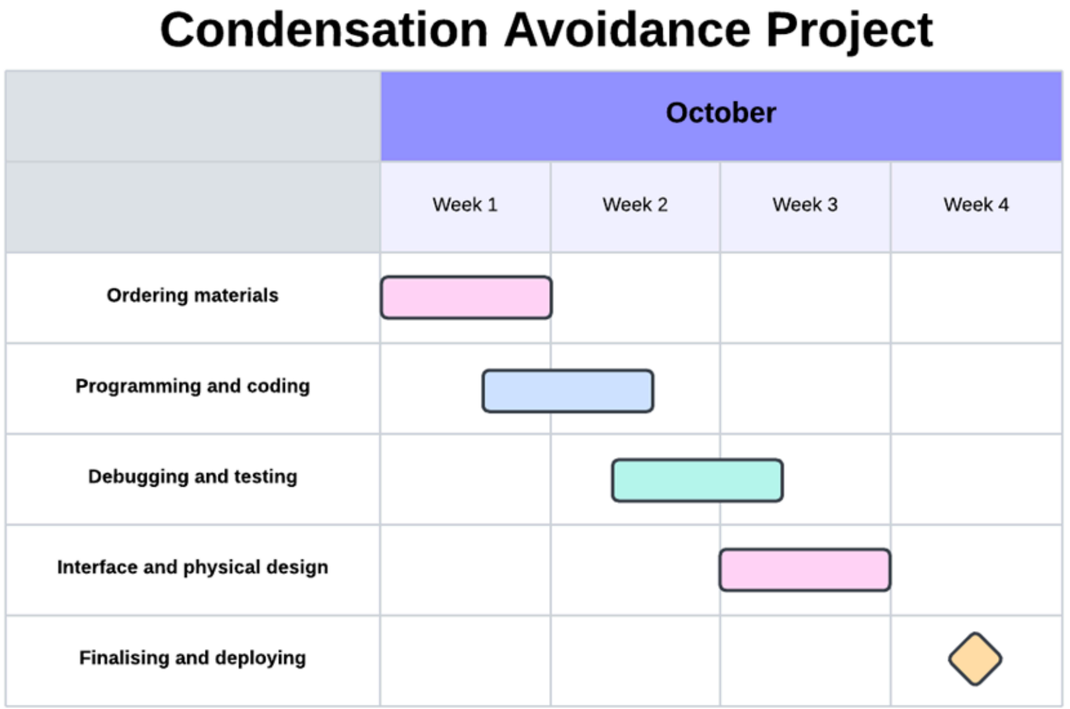


The Process


Arduino Nano
Python
CSV Data Storage
Arduino Cloud
Dashboard
IoT Remote App
Notifications

The Timeline

The Gantt Chart show the proposed timeline, with enough room for error



THANK YOU