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Thevenot Gaspard & Grégoire Angebaud M1 DTCS

Our project

the sunset coverfew alert (The SCA)

Project summary

So now I want you to take a few seconds to imagine a worldwhere we're facing a new curfew...

that the curfew be at nightfall and not at a fixed time so that the time spent outside will fluctuate with the seasons

that's when our project comes into action.

Contribution

Thevenot Gaspard:

-research

-montage

-code

-full report

-PowerPoint:

-Oral presentation

Grégoire Angebaud

-Research

-PowerPoint

-Oral presentation

Business Aspect

For this project they are now device that are sold for now. In great part because we were makin supposition of something that may not happen in the future

Problem Definition

Imagine that we leave in a word where the COVID-19 is still here and the coverfew is still imposed to the population. You'll say it's the same thing but what if this coverfew is not regulate by an hour but by the sunset. In this it will be because every clock in the world stop to work. So in this eventual world how would you be warned that it will be the time to go home?

Challenges & motivation

I will now talk about how our project came about.

The final project is not our first idea

indeed our first project which was made of lights was not appreciated by one of our teachers.

He then proposed us a project of data collection for a car which did not interest us much knowing that the data collected would have been on the car and that we did not necessarily intend to use our car during this period.

We then turned to a project which consisted in analyzing the ambient noise in a city and to transcribe these data on a map in the shape of a circle.

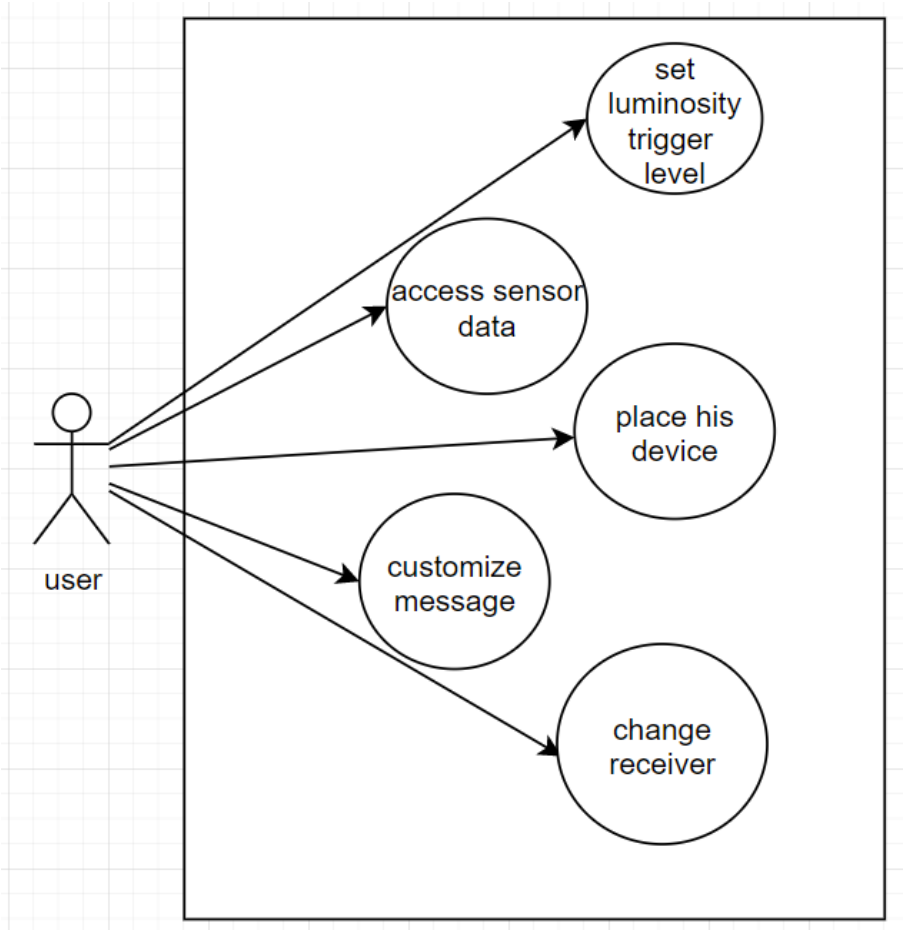
unfortunately this project had to be abandoned because the equipment we had couldn't work in France because of the wavelength used by our equipment.

the professor then suggested that we take up a project from last year and improve it.

however this project seemed to us too complicated for the time we had left, counting on the fact that we did not have the necessary equipment.

So we decided to create a project within the time and skill we had. So our project can still have upgrade but to motivate ourselves we wanted to create one at least a little bit funny

Use Case



Technical description

To realize this project we needed to use:

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- An esp 32

- a photoresistance

- one resistor (10k Ohm)

- threads

To develop our code we used arduino to send the data to the cloud.

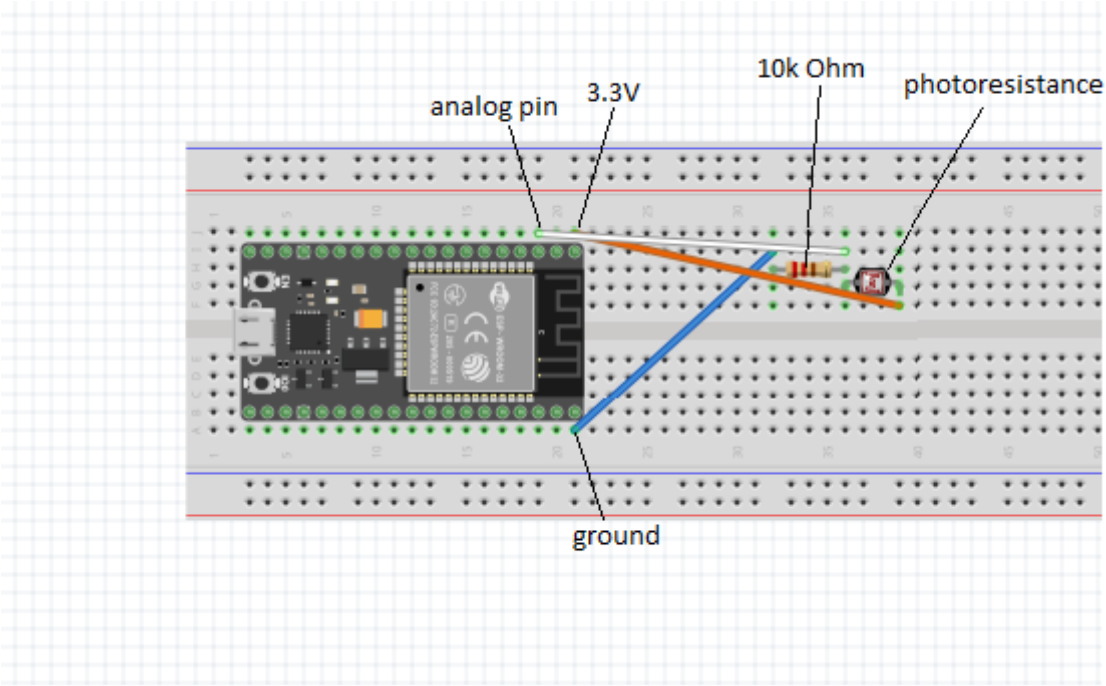
To save the data and put it in graph form we used ThingSpeak.

Channel ID : **1281213 for the test**

Channel ID : **1281249 for the video**

We also used ThingSpeak's MatLab Analysis tool to send the email when the brightness drops below a certain threshold.

hardware



Video link

https://www.youtube.com/watch?v=EduMXN0iQKk&ab_channel=gaspardThevenot

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Screen shot from the demos