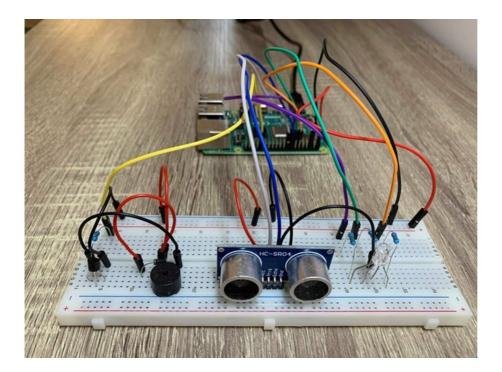
Name: Mihăilă Andreea-Alexandra în echipă cu Toma Laura Mail : <u>andreea_967@yahoo.com tomalaura97@yahoo.com</u> Title: Social distancing sensor

Elevator pitch: By using the sensor, when you get too close it will warn you by making a sound and changing the led color.

Cover image:



Things used in this project

Hardware components

4
Ŕ
\[\] \[
\[\] \[
\ \ \ \ \ \ \ \
$[\exists \ \land$
Ř
Ĕ
H
R

Software apps and online services

@ Raspberry Pi Raspbian

Ä

Story

Nowadays, because of the pandemic, we will have to be more careful when it comes to the distance between us and other people. By using our project, you will always be warned when someone is too close to you.

How it works:

The device is set to react when an object/person is "close" (< 75 cm) or "too close" (< 25 cm). The "close" mode activates the buzzer and turns the RGB led into the blue light. The "too close" mode, makes the buzzer sounds more disturbing and turns the RGB led into the red light. While the distance between the persons is bigger than 75 centimetres, the light will be green and the buzzer will play a song, for letting you know that there is no one too close to you.

Library:

For our project we've used the pigpio library which is installed in the following steps:

first download and install the latest version:

wget https://github.com/joan2937/pigpio/archive/master.zip unzip master.zip cd pigpio-master make sudo make install

before you run the code, you need to start the pigpio daemon

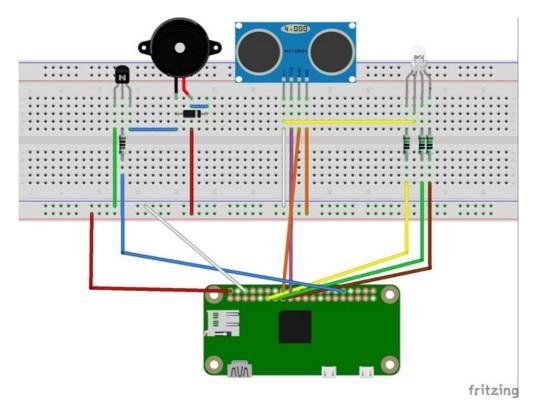
sudo pigpiod

for running the code use the following command :

python3 project.py

Schematics

.



Code: <u>https://github.com/andreea967/smProject/blob/master/project.py?</u> fbclid=IwAR2XGN041ZThyWr-Ws_GK6RuQhzOz1PcJynrFTEEdhayp4Zs_dKkWrg8vKQ

Video: <u>https://www.youtube.com/watch?v=7YDZ-VO0cK0&fbclid=IwAR0-</u> WcG_Ukb5AXbTzAoBogPka78fF1H026WFpFF8CnOuMAu9aCL-_bKTFCA

Hackster:

https://www.hackster.io/mihaila-andreea/social-distancing-sensor-562e08? fbclid=IwAR1UX7olh_cozhbgIHA9wGkLy7RcaGdZkBZmaNFsShcyvWPKAj5dYi8g-O4