# Group 14 :)

## A smart home control system that is used to regulate lighting and activate ventilation

### about our product

We have created a control system which based on a Photoresistor sensor and an ultrasonic sensor. This control system control over two things. The first one is to control at the lighting intensity at the room, and the second one is to turn on the ventilation system only when there are people in the room. Our goal is to create optimal conditions for the system's users and to reduce electricity wasting.

### User manual

1. in order to use this system, the user need to upload the customized code in the controller and connecting this controlling system to electricity.

2. If no one in the room, the ventilation system turns of and the light in the room is also turning of.

3. If a person enters the range of the ultra-sonic sensor (enters the room in our case), the system activates the ventilation and turns on the light according to the amount of light in the room.

\*\* If there is a lot of light in the room before turning on the lighting then the lighting will operate at a low intensity, otherwise it will operate at a high intensity.