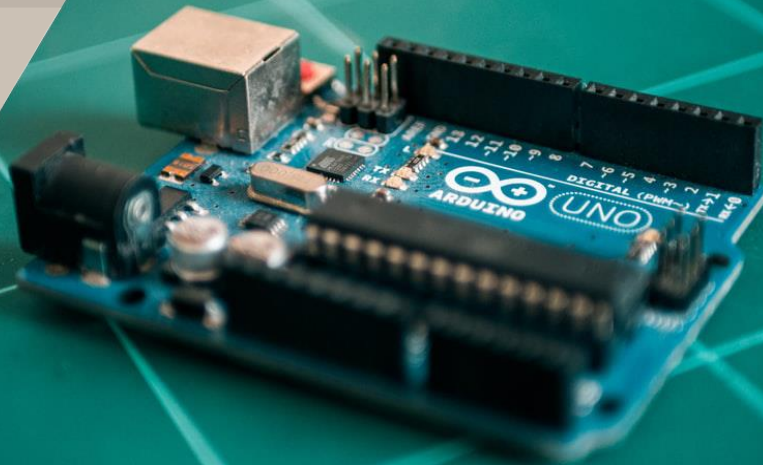


# Digital Logic

## Smart Home Embedded Project



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# Project Description

## 1- Lock system:

consists of a led indicating the status of the house locked or unlocked, a PIR sensor to sense any motion inside the house while it's locked and if it senses any motion it triggers an alarm.

## 2- Fire alarm system:

consists of a flame sensor and if it senses any flame it triggers an alarm and opens all doors and windows to ease house evacuation if the house is unlocked (as if someone inside) and if it's locked the doors and windows remain closed.

## 3- Temperature and humidity sensor:

consists of a DHT11 sensor to read temperature and humidity and sends it back to the phone screen and if the humidity in the bathroom exceeds a known value the toilet range hood triggers to lower humidity inside the bathroom.

## 4- Light System:

A Light system in multiple rooms that can be controlled through a slider allowing user to choose between different levels of light intensity.

# Project Description



# Sources

- **Code:**

<https://www.dropbox.com/s/i063x70vejx0js8/SmartHome.ino?dl=0>

- **Video:**

<https://youtu.be/TFABrHsoCUo>

# References

1- Arduino BlueControl – Application for Android Devices

2- [create.arduino.cc](https://create.arduino.cc)