**Team:** Stimulating

**Members:**

**Bachelor of Electronics   
And Communication Engineering**

**2019 & 2020 Batch**



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**PROJECT:** HOME AUTOMATION

**FEATURES:**

1. Represents a house model (Entrance, Garden, Hall, Bedroom, Kitchen, Bathroom) using cardboard or material available at that time.
2. Main door is secured with a password by using keypad component. After successful password entering, the door will be opened only when the body temperature was in normal range (Representing the COVID-19 situation).
3. We will be equipping a servo motor for opening of door.
4. All the room lights, fans (Planning for car parking garage) are accessible with dual controlling system (Manually & cloud). Using cloud, everything can be operated from anywhere according to our system.
5. Planning to equip a water tank with level indicator. (Special LCD may be used as per our investment)
6. Also planning to equip a solar panel. With additional feature, angel changing as per the sun lighting direction.
7. Etc,

**Learning Outcomes:**

1. Understanding Arduino hardware & software.
2. We will be going through all the peripherals,
3. Interfacing LED, LCD.
4. Motor, Relay, keypad & few sensors.
5. Going to learn about cloud part in order to control limited essential things from anywhere.

**(If possible, we will be implementing the concept of IR Remote, ESP8266, HC-05 modules)**

**Thanking you,**

From,

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