



# **CSE 316**

## **Project Proposal**

# **SENTINEL**

## **Smart Home Assistant**

**Section : A2**

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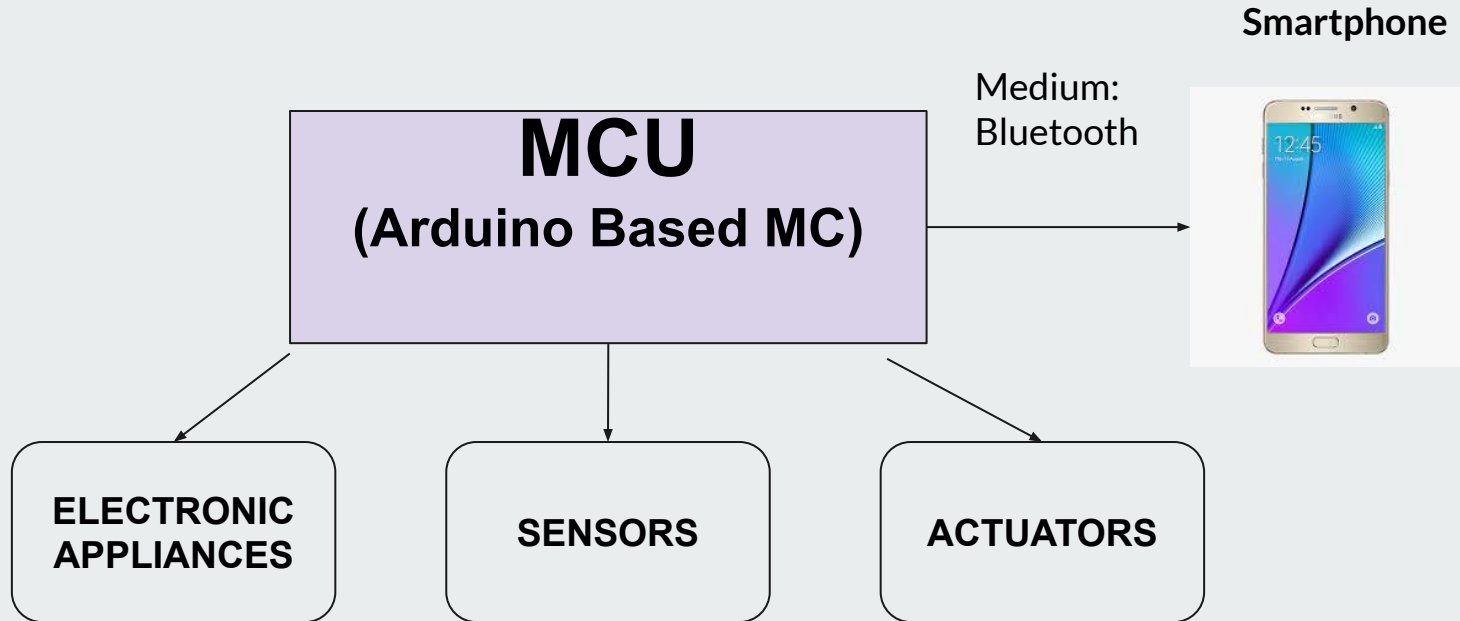


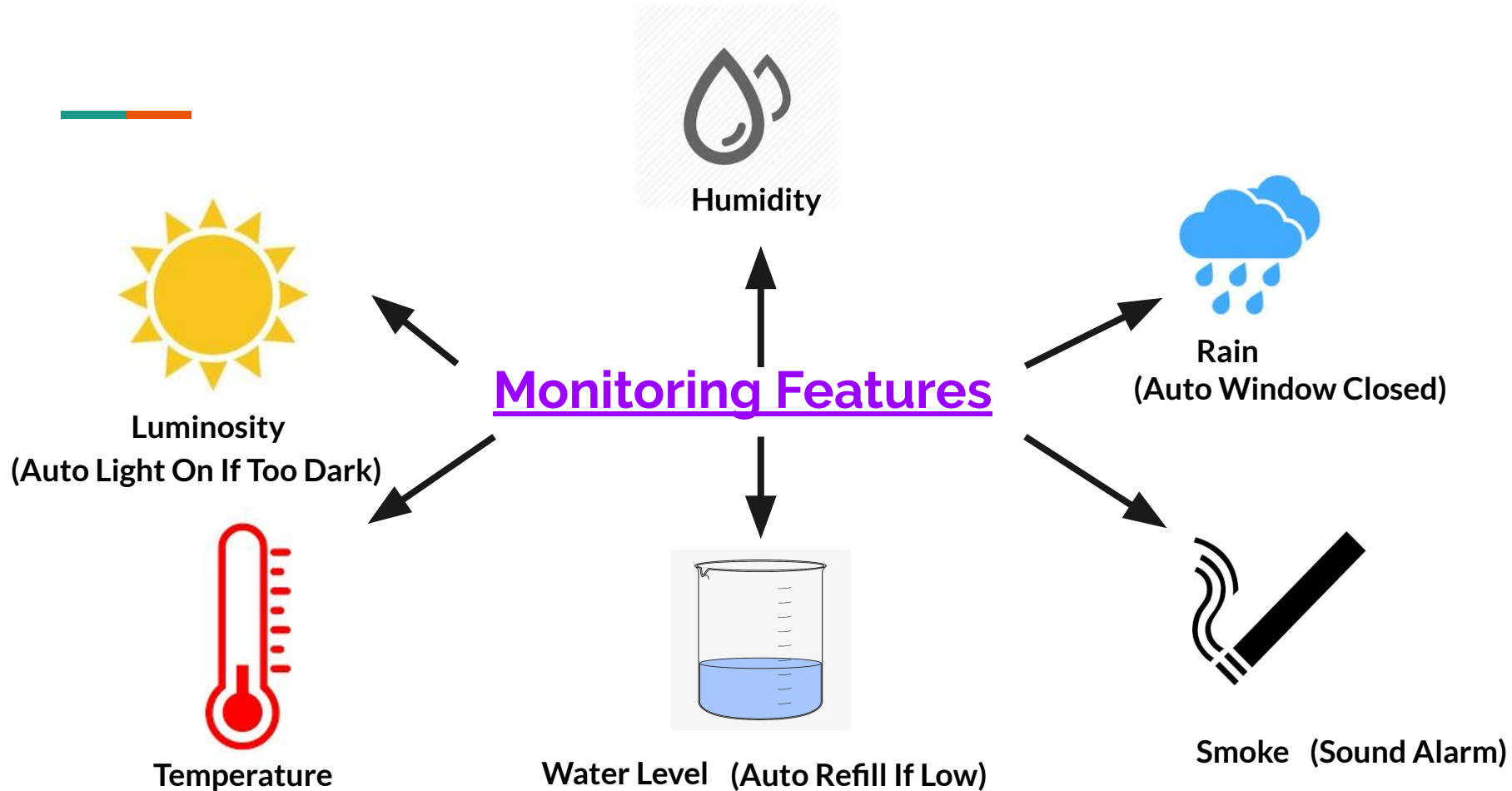
## Motivation:

**We Want to Build A System to:**

- **Remotely Control and Automate Basic Household Electrical Appliances**
- **Monitor Environmental Parameters of Home and Take Appropriate Actions**
- **Alert Owner about Environmental and Security Threats**

## Block Diagram

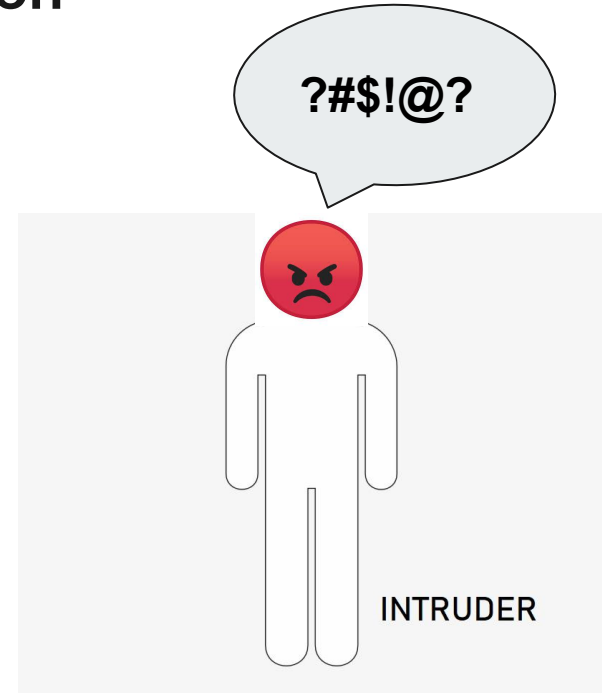
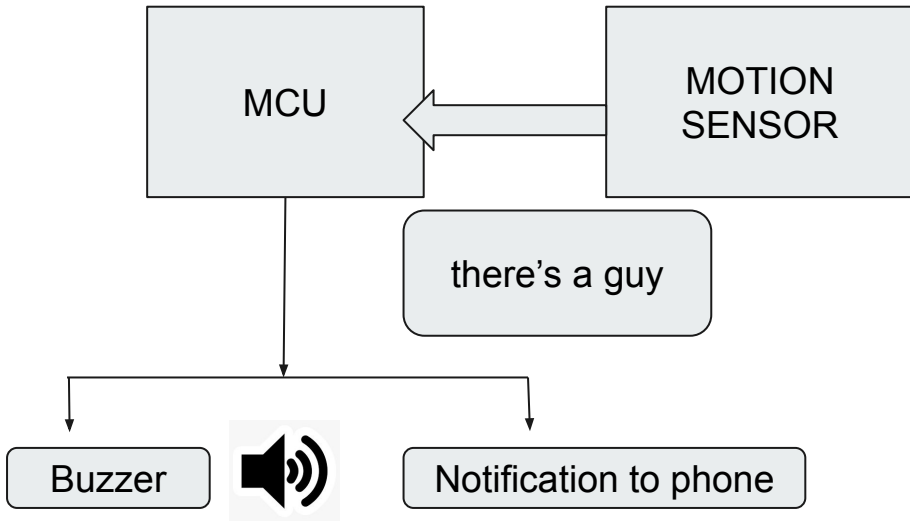




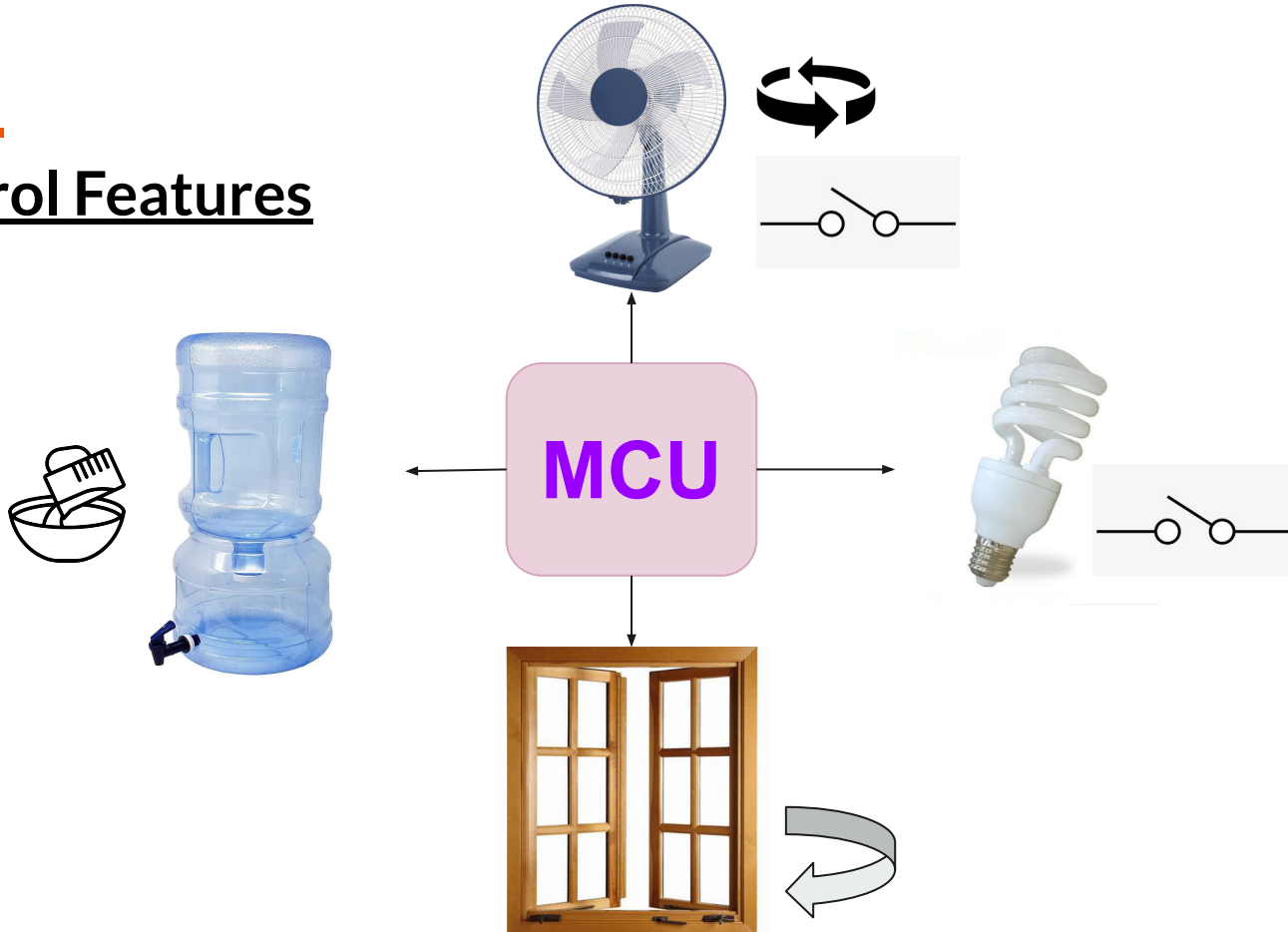
## Security Feature: Intruder Detection

Applicable if owner wants

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## Control Features





## Sensors

- LDR (Light Dependent Resistor)
- DHT22 Temperature and Humidity Sensor
- MQ Series Gas Sensor
- PIR Motion Sensor
- Rain Sensor



## Actuators

- Servo Motor

We did a small sample project to test if it is feasible: [Link](#)





**Thank You**