EE 536 (IoT)

Name of the project: Home automation 2

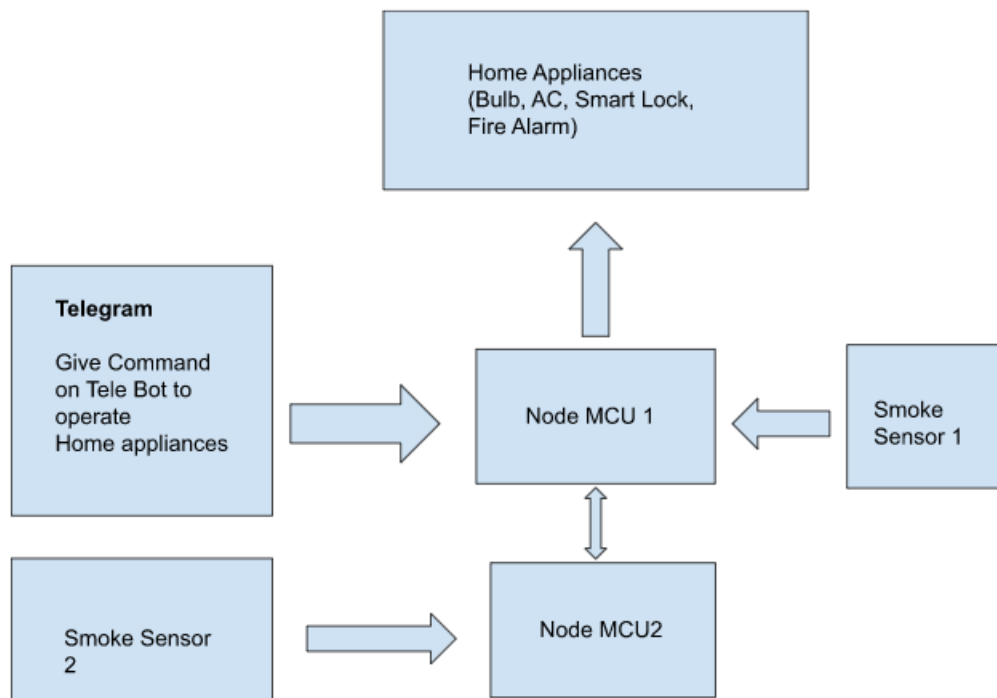**Members**: Gaurav(B20197) and Romit(B20196)

Short description of problem: Automate 2 rooms each have several home appliances like Bulb, AC, Fire alarm, Smart lock. Each appliance is connected to WiFi module (NMCU i.e., base station for each room) and Both NMCUs are connected to each other.

Solution detail:

Algorithms:

1. Fire alarm will work on smoke detector sensor.
2. Light bulb will turn ON and turn OFF on homeowner's command.
3. AC and Smart lock would also work same as Bulb.

- If any smoke detector detects smoke, then both the Fire alarm will activate.
- Command will be given via Telegram bot.

Screenshot about the system:

Are you planning to use real sensors: Yes, Smoke detector sensor.

Milestone 1: Connect some LEDs which will in place of Bulb, AC and Smart Lock with their individual base stations (NMCUs). Each appliance can be controlled by command on Telegram.

Milestone 2: Smoke detector sensor and Fire alarm will be added. This will be done by communication between both base stations. As on smoke sensor activates both Alarms.