Project Name: Automated Room Controlling

Author: Mokit Hossain

***** Hardware components:

- 1. Microcontroller One piece
- 2. Jumper Wire (Female Male, Male Male) Some pieces
- 3. Relay Module Five piece
- 4. Electrical Wire Necessary measurement size
- 5. Power Switch
- 6. LED 4 to 7 pieces
- 7. AC to DC convertor adaptor One piece
- 8. Wireless module One piece

Software components:

- 1. Arduino compiler
- 2. Custom make android app
- 3. Python Editor

❖ System Diagram:

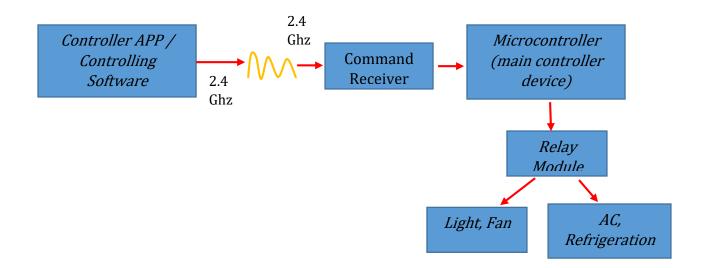


Fig: Block Diagram of the System

❖ Microcontroller Selection:

1. Raspberry Pi

I. Cost: Medium

II. Wireless Communication: In-build

III. Controlling: EasyIV. Runtime: GoodV. Processor: HIGH

2. Arduino

I. Cost: Lost

II. Wireless Communication: Need Wifi shield

III. Controlling: EasyIV. Runtime: GoodV. Processor: Low

3. Beagle Bone

I. Cost: High

II. Wireless Communication: In-build

III. Controlling: Medium

IV. Runtime: GoodV. Processor: HIGH

N. B.: costing are calculated according to the local market price.