Project Name: Automated Room Controlling

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Requirement specification (user's perspective): As a user perspective, the requirement specification for the project is given below:

1. User don't want to use switch or press control device.
2. Room's electrical device can be controlled by smart device as mobile, tab or computer / laptop or even speech.
3. User want the system with more security so that hackers can't be hack the system easily.
4. Needed at least two steps of safety in the electrical circuit controlling.
5. If the main system is falling down, needed an emergency backup immediately to restart the system.
6. Daily, monthly based data visualize programme is needed.

Requirement specification (designer's perspective):

1. In house / room most of the electrical equipment's are running by AC current but to make it automated, the microcontroller is running by DC current, so that needed the electrical design with AC current.
2. Raspberry pi will be used or a microcontroller with Wi-Fi module will be used.
3. The system can be controlled by using any recent smart device so the main controlling system will be connected with the internet.
4. In the system user domain need more security function so any one can't control or modify the system.
5. Proper data collection method will be used that will help to find the bugs in the system.
6. Backup system programme will be used.