Title : Real Time Clock based Appliance Control using IOT

Document : Requirement Specifications

Functional Requirements

- Local display of:
 - o Current Time display in HH:MM:SS format
 - o On Time Slot of Appliance (Start and End Times) in HH:MM format
 - o Appliance Status: ON/OFF
 - o Display of the above parameters in mobile app also
- Facility for setting On Time Slot Start and End Times in mobile app
- Clock should run even when unit is powered off
- Minimum update rate of parameters: 2 seconds
- Power supply: 5V (USB powered)
- Update on cloud database should be accessible to user for debugging purposes

Non-functional requirements

- Should have compact custom PCB
- Display and RTC (Real Time Clock) modules to be connected using polarized cables
- Should have low power consumption. Should be capable of being USB powered for program upload and debugging from a laptop