Title   : **Remote Range Meter using IOT**

Document   : **Requirement Specifications**

Functional Requirements

- Range of obstacle to be detected: 2cm to 400 cm
- Display of detected range in cm on local display and on mobile app
- Graphical bar graph type display on mobile app for pictorial representation of range
- Minimum update rate of range: 2 seconds
- Power supply: 5V (USB powered)
- Update on cloud database should be accessible to user for debugging purposes
- Current values of parameters should be made available to user in a mobile at any place with Internet connectivity

Non-functional requirements

- Should have compact custom PCB
- Display and sensor 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