

Title : **Fall Detector Notifier using IOT**

Document : **Requirement Specifications**

Functional Requirements

- Fall detection to be detected for the following sides:
 - Front
 - Backward
 - Left
 - Right
 - Upright
- Fall detection status to be available on
 - Local display
 - Mobile app
- Fall Detection Threshold should be settable from mobile app
- Minimum update rate of parameters: 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 app 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