

Title : **Biometric based lock control using IOT**

Document : **Requirement Specifications**

Functional Requirements

- Mobile app with prompt to the user for fingerprint
- Fingerprint validation in mobile app
- Validation status update on cloud database
- Periodic read of cloud database by IoT board for controlling lock solenoid
- Minimum update rate of parameters: 2 seconds
- Power supply: 5V (USB powered)
- Display of fingerprint validation status and lock status on local display.
- Update on cloud database should be accessible to user for debugging purposes.

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.