

Title : **Smart Garden**

Document : **Requirement Specifications**

Functional Requirements

- The following parameters should be displayed on the local display as well as the mobile app:
 - Soil moisture
 - Limit of soil moisture level for switching on pump
 - Pump status
- The mobile app should also have facility for entering in new limit for soil moisture
- 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 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