**Functional**

* Web interface should provide user with plots and graphs which should be easy to comprehend.
* Classification algorithm should be able to segregate water direction based on classification result obtained from the microcontroller.
* Water should be directed towards treatment plant by the pump if classified impure.
* Web portal should alert user if extreme readings are obtained from any sensor.
* Hardware setup should be integrated with web portal using shared database.
* Sensor should be able to provide data and microcontroller should be able to take classify water via underlying classification algorithm.
* Sensor should be placed at appropriate positions for them to perform optimally.
* User should have access to a water treatment plant.

**Non Functional**

* Users must change the initially assigned login password immediately after the first successful login. Moreover, the initial should never be reused.
* Sensors and microcontroller should be kept under a protective layer to prevent damage from natural causes
* Privacy of information, the export of restricted technologies, intellectual property rights, etc. should be audited.
* User should not be allowed to tamper web portal database. Such attempt should be reported to the security administrator.