Use case: Monitoring Sensors

Primary actor: System owner.

Goal in context: To set the system to monitor sensors when the water tank level decreases to 20% and increases upto 90% and quality of water.

Preconditions: System has been programmed for water levels and water quality to recognize various sensors.

Trigger: The System owner decides to “set” the system, i.e., to turn on the system functions.

Scenario:

1. System owner: observes mobile app
2. System owner: enters login credentials
3. System owner: selects “automatic” or “manual”
4. System owner: observes water tank level and water qualtiy that Water tank management system has been armed

Exceptions:

1. mobile app is not ready: System owner checks all sensors to determine which are open; restarts system.
2. login credentials is incorrect (mobile app wanns once): System owner re-enters correct login credentials.
3. Manual selected: mobile app notifies level of water; user clicks on start fill or stop fill button.
4. Automatic selected: mobile app notifies level of water; system starts and stops filling water tank automatically.

Priority: Essential, must be implemented

When available: First increment

Frequency of use: Many times per day depending on use of water

Channel to actor: Via control mobile app

Secondary actors: System administrator, sensors

Channels to secondary actors:

System administrator: mobile app

Sensors: hardware and ultrasonic frequency interfaces

