

## PROJECT DEVELOPMENT AGREEMENT

NAME OF THE PROJECT	Water ATM Sensor Detection
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PROJECT ID	ELRMD059043
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### DESCRIPTION –

A sensor that can help maintain water level in water ATM. Whenever the water gets beneath a given level the sensor triggers the GSM shield and that will send a message to the given authority to refill the tank. The authority contact can be updated using a keypad attached with the sensor.

### APPLICATION –

1. A water sensor that can trigger GSM shield.
2. A GSM shield that can send a SMS whenever there's a trigger.
3. Reset the contact of the authority using the keypad attached to the Shield.

### HARDWARE MATERIAL –

An Arduino Uno, A GSM900 module with antenna, a SIM, a matrix keypad module, a LCD(16x2) , aluminum foil & wires(for designing water level Indicator circuit), female to female fly leads, a male bug connector, a serial cable, 1 zero PCB(for making a separate 5v supply through arduino).

### SOFTWARE MATERIAL –

Arduino IDE.

### DEVELOPMENT PROCESS –

We will follow given steps to complete our task:

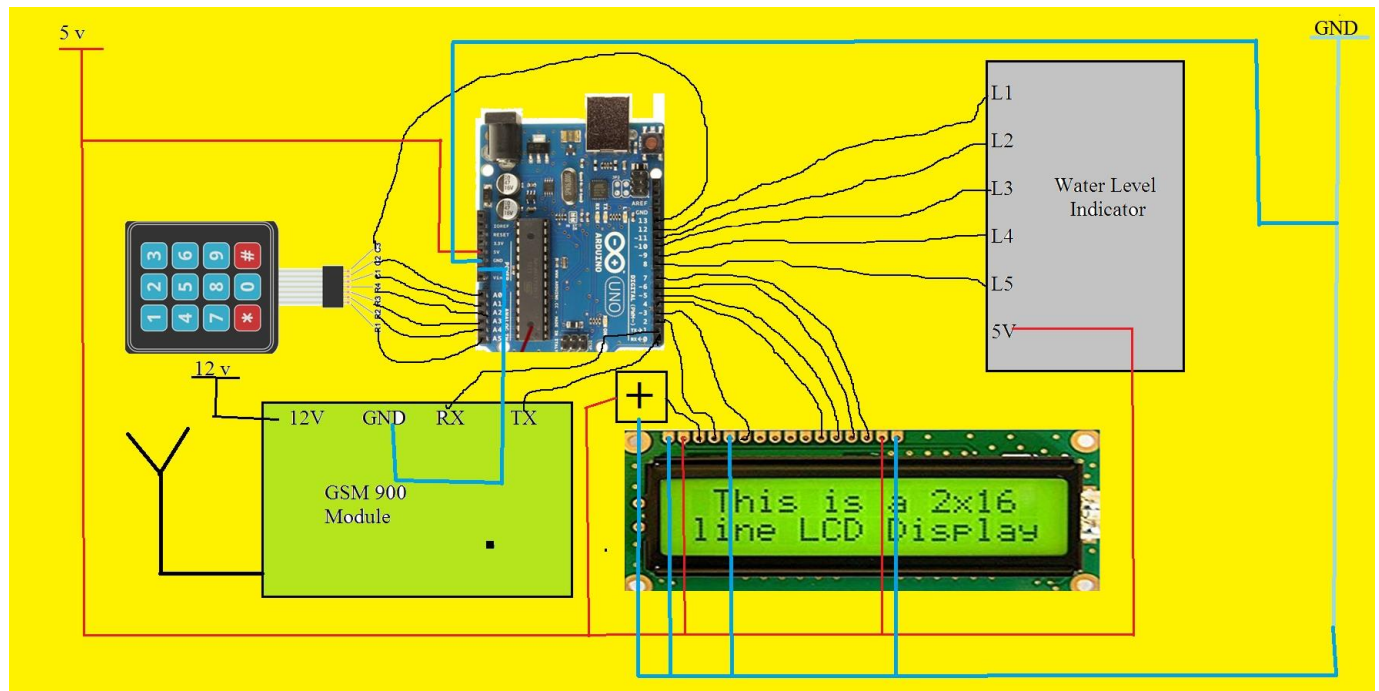
1. Firstly, we will connect our own designed water level indicator (which will have 5 levels of indication) to Arduino.
2. Then, we will connect GSM900 module with Arduino.
3. There after we will connect LCD and Keypad with Arduino
4. Now its Code time and we will write a code for it.

### TESTING PROCESS –

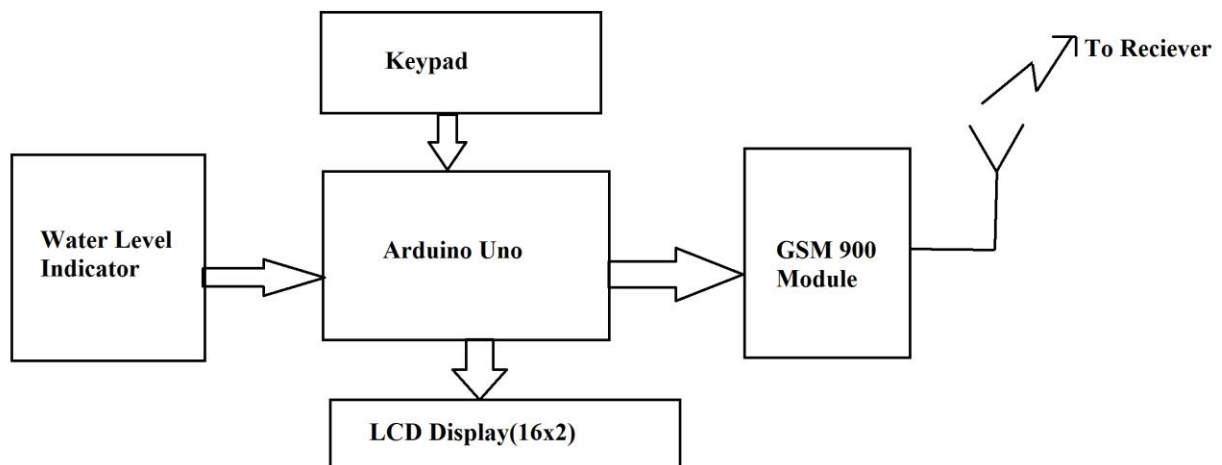
Whenever the water level goes bellow L4 (when pin no.9 of arduino detects low) then in code, it will switch to a function of sending a message to the mobile no. given.

Secondly, if a user wants to change a mobile no. then on keypad he have to press '\*' (since char '\*' is assigned to change the mobile no. in our code). After typing a complete a no. a user has to press '#' to save it.

**CIRCUIT/SCHEMATIC DIAGRAM (ANY ONE) –**



**FLOW DIAGRAM –**



**Flow Diagram**