Web Based Water Monitoring System

SMART CITY PROJECT IDEA

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Vinit Shahdeo
President
VinnovateIT

Overview

With IoT it is possible to build simple automation devices that can help reduce the wastage of natural resources. Cities with less access to potable water are struggling either due to low supply or wastage due to overflow. Conserving water has now become a technology use case as there is a need to act on it. Web based Water monitoring system can be used to prevent wastage of water.

Goals

1. **To reduce the wastage of water across the city.**
2. **To provide better water supply to the people**

Abstract

Water Monitoring System is an IOT based Liquid Level Monitoring system that has mechanisms to keep the user alerted in case of liquid overflow or when tank depletes.

The water tanks can be fixed with ultrasonic sensors that is placed over the container. Ultrasonic sensor is used to measure, compare container depth and liquid level.
The other components required are:

- AVR family microcontroller
- LCD screen
- Wifi modem
- A buzzer
- 12V transformer

The status of the system could be monitored by an LCD screen or a web page that provides a brilliant graphical representation. Colours are used to depict various scenarios with respect to the amount of liquid in the tanks or containers and the buzzer buzzes when the limit exceeds the permissible quantity of fill.