ASSIGNMENT 2

Real- Time River Water Quality Monitoring And Control System

Date	14 november 2022
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Project Name	Real- Time River Water Quality Monitoring System And Control System
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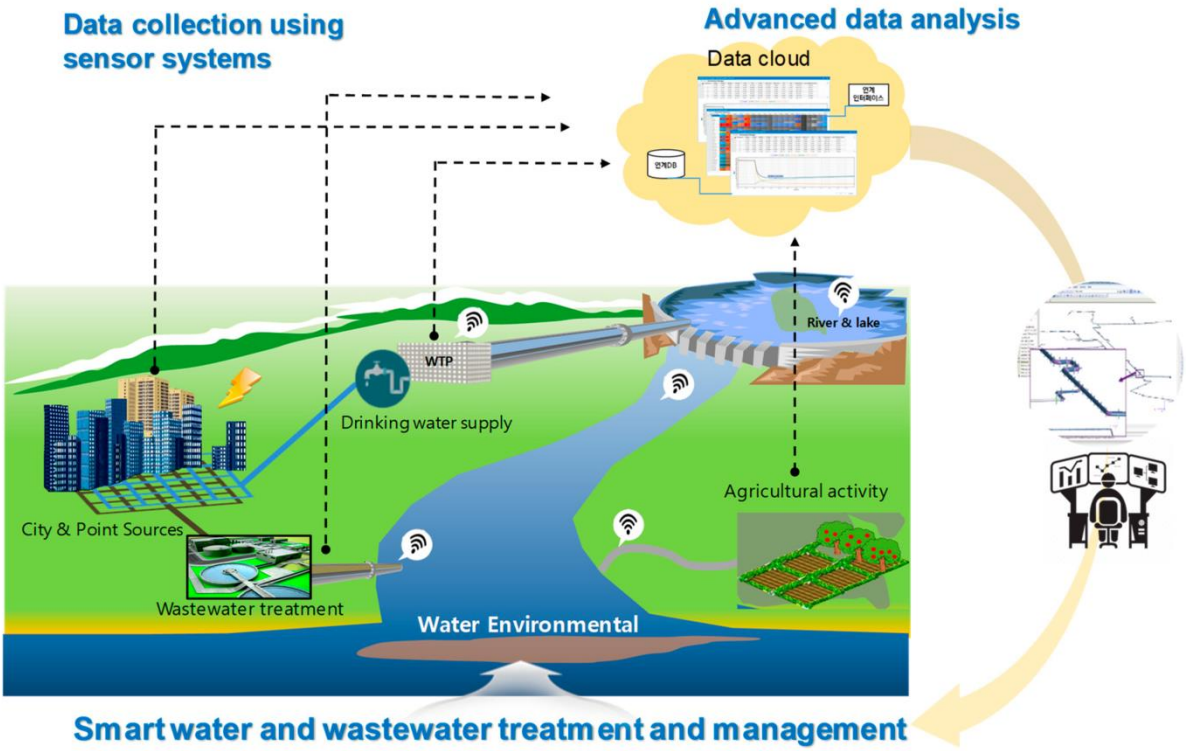
Introduction

The wireless communication technologies are increased for aiding person's individual and regular responsibilities. There are many applications developed for building control, automation, data acquisition in recent years. There are many benefits like low cost, easy installation, and maintenance. The remote device network is applicable in several functions like farming, traffic management, remote health care, forest management, security and surveillance [1]. The "wireless sensor network" contains connectivity, computing and signal processing, and spread device nodes for sensing.

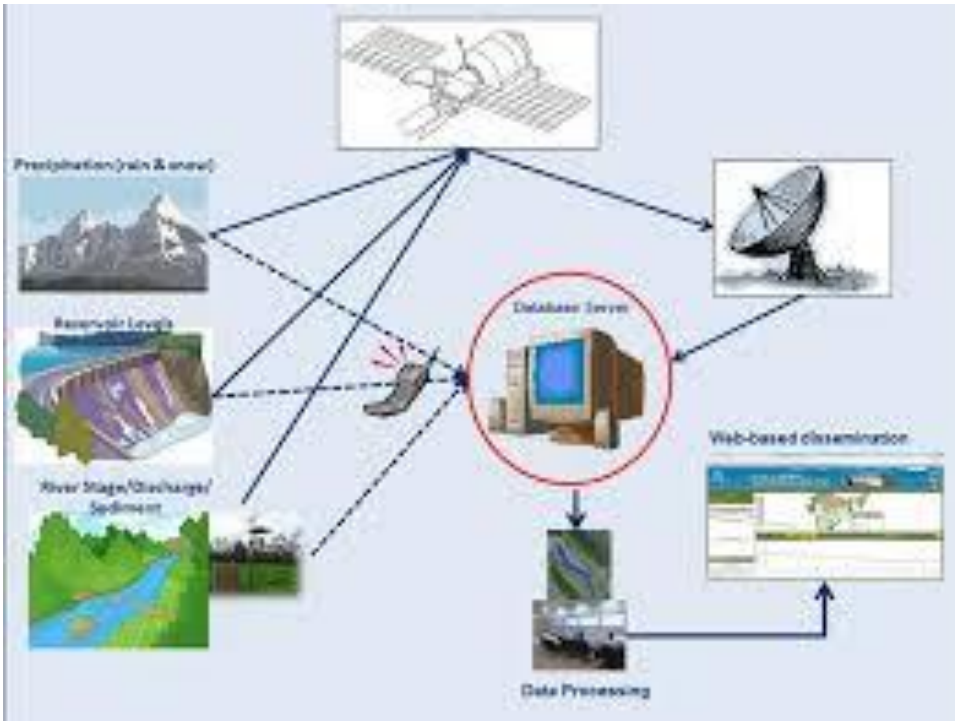
Literature Review

Wireless sensor networks are also known as "wireless sensor and actuator network (WSAN)" that is a network containing" distributed sensors" to observe the environmental or physical situations like pressure, sound, temperature, etc. This system contains a gateway, which offers connectivity to the used world and distributed nodes, which can transfer the information through the network to main position. The existing networks are bidirectional in nature and enable the sensor activity. This research ensures a safe supply of drinking water. This system consists of different water parameters.



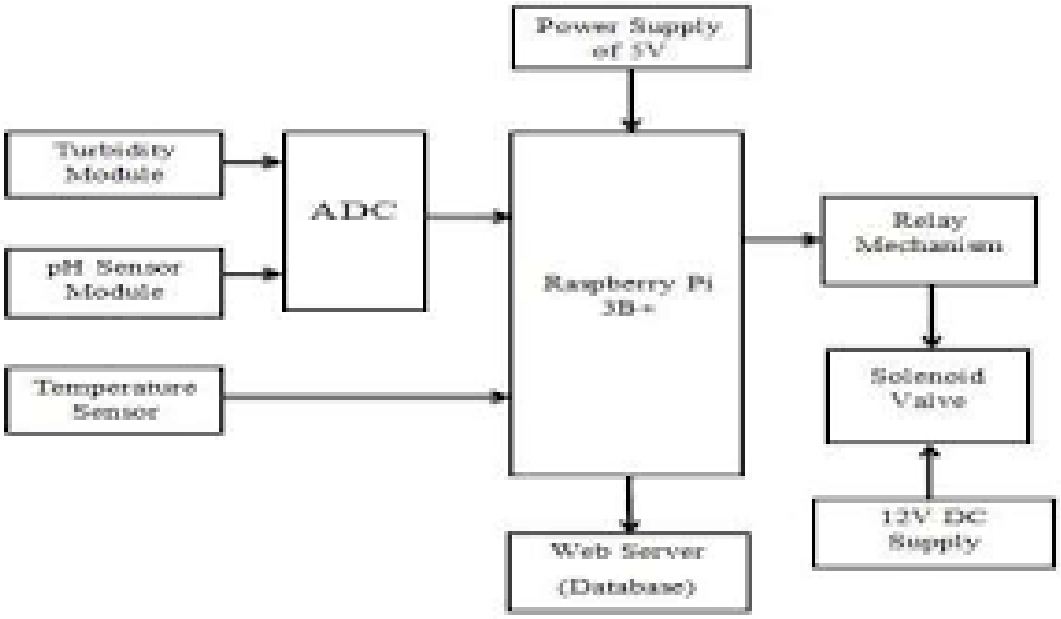
Proposed System

In this proposed system the complexity reduces and the performance increases by collecting the data of the water parameters like temperature, water level, co2, pH. The information collected is updated on the web server that can be retrieved from anywhere in the world.



Existing System

Now a day's water is polluted due to many reasons. In this current system, the equipment cost is high, and it takes a lot of time to process. Traditional methods have the drawbacks such as long waiting time for results high cost, low measurement precision, and complicated methodology.



Result

In this WQM framework, when the device board is switched ON, the devices get into activated state and will discover the water parameters of individual sensors. Then, the composed data of water parameters are transmitted to the web server wirelessly by using WI-FI module.