SMART WATER MANAGEMENT

A project report submitted in partial fulfillment of the requirements for the degree of B.E-Computer Science and Engineering

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PHASE-3: DEVELOPMENT OF SMART WATER MANAGEMENT

INTRODUCTION

LITERATURE SURVEY

PROPOSED SYSTEM

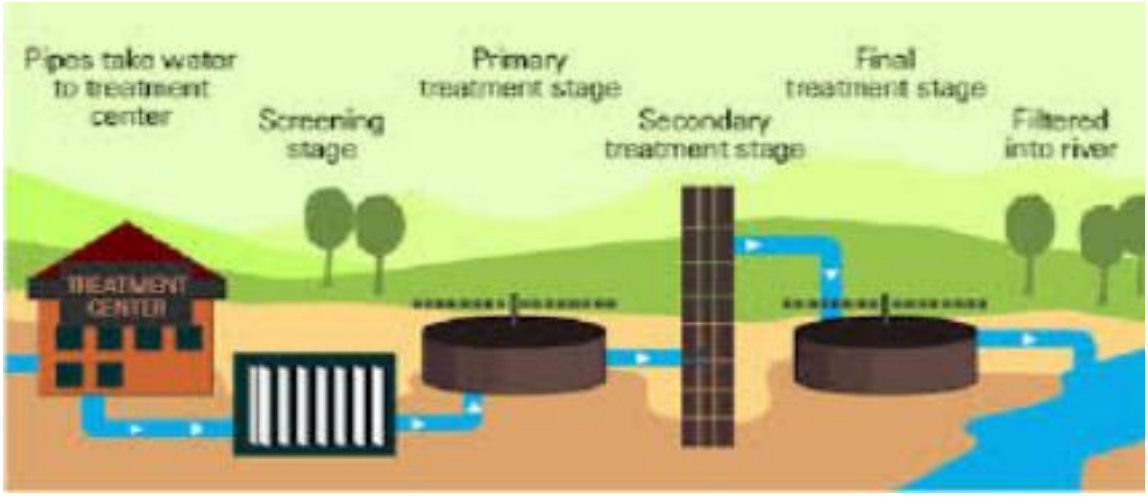
CONCLUSION

INTRODUCTION:

A smart water management system using IoT technology can provide real-time monitoring of water usage and help identify leaks or wastage in the system. It can also provide insights into water usage patterns, enabling better decision-making for water conservation and management. The system can also be used to manage the quality of water, ensuring that it meets the required standards for consumption. This paper presents an overview of the development of a smart water management system

LITERATURE SURVEY:

This paper presents the design and implementation of a smart water management system using IoT technology. The system includes a wireless sensor network, a cloud platform, and a mobile application. The system allows real-time monitoring and control of water usage, and it provides users with personalized recommendations for water conservation.



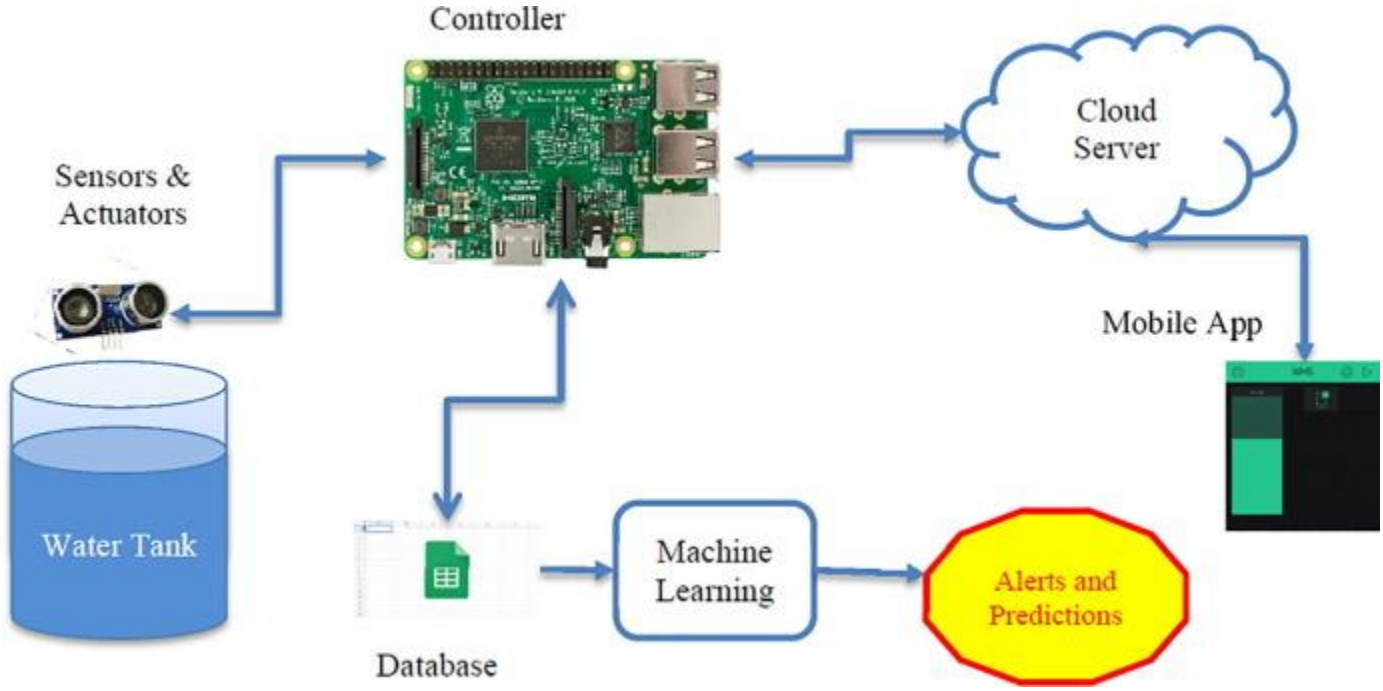
This paper proposes a smart water management system based on IoT and cloud computing. The system uses wireless sensors to collect data on water usage, and the data is

storedanalyzed on a cloud platform. The system provides real-time feedback to users on their water usage and suggests ways to conserve water

This paper presents an IoT-based smart water management system using Raspberry Pi. The system includes sensors for monitoring water usage and a Raspberry Pi for data processing and control. The system provides real-time feedback to users on their water usage and enables remote control of water usage through a mobile application

PROPOSED SYSTEM:

The management of water resources is an essential aspect of sustainable development, and it is critical to the success of many industries, such as agriculture, energy, and urbanization. Due to the increasing demand for water resources, the need for efficient and smart water management systems is becoming more important. The Internet of Things (IoT) technology is a suitable solution to tackle the issue of water management. This proposed system aims to develop a smart water management system using IoT technology to address the water scarcity problem.



IoT-based Water Management System: Benefits & Solutions:

Access to water seems to be ever-present. Yet, according to WWF, two-thirds of the world's population may experience water scarcity by 2025. Growing population and climate change are the primary reasons for this, yet

there are other, no less significant ones. Overloaded water infrastructure, pollution, and improper water management add to this unfavorable scenario.

If there are means to cut these issues, a smart water management system using IoT seems the most viable solution. Whether a consumer, governmental structure, or agricultural business — every individual and industry equally benefit from this.

CONCLUSION:

The development of a smart water management system using IoT technology has the potential to revolutionize the water management sector. The proposed system can help to conserve water resources, ensure water quality, reduce operational costs, and provide real-time information on water availability