

Project Design Phase-2

Proposed Solution

Date	10/10/2023
Team ID	444
Project Name	4123-Smart Water Management
Team Name	Proj_227234_Team_1
Team Member	5

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Many communities struggle with limited access to clean and sustainable water sources. The challenge is to develop efficient and innovative solutions that can help monitor, conserve, and distribute water resources effectively while minimizing waste and ensuring a reliable supply for both urban and rural areas.
2.	Idea / Solution description	Create a system that uses technology to track and control water usage in homes and businesses. This system can detect leaks, optimize water usage, and provide real-time information to help people use water more efficiently, thus conserving this precious resource.
3.	Novelty / Uniqueness	Invent a smart device that automatically adjusts water usage based on real-time data and weather forecasts. This way, it optimizes water consumption by adjusting sprinkler systems and alerts users about potential leaks, saving water and promoting sustainable usage.
4.	Social Impact / Customer Satisfaction	Ensure that people using the smart water management system are happy with its performance. This means they should find it easy to use, reliable, and that it effectively helps them save water and money while ensuring they have a consistent and clean water supply.
5.	Business Model (Revenue Model)	Create a plan to make money while providing smart water management solutions. This involves selling smart water devices, offering subscription services for data monitoring and analysis, and potentially partnering with water utilities to improve their efficiency and reduce water waste in exchange for revenue or cost-sharing arrangements.
6.	Scalability of the Solution	Ensure that our smart water management solution can easily grow and adapt to serve more people and areas without major complications.

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Solution Architecture

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Example - Solution Architecture Diagram

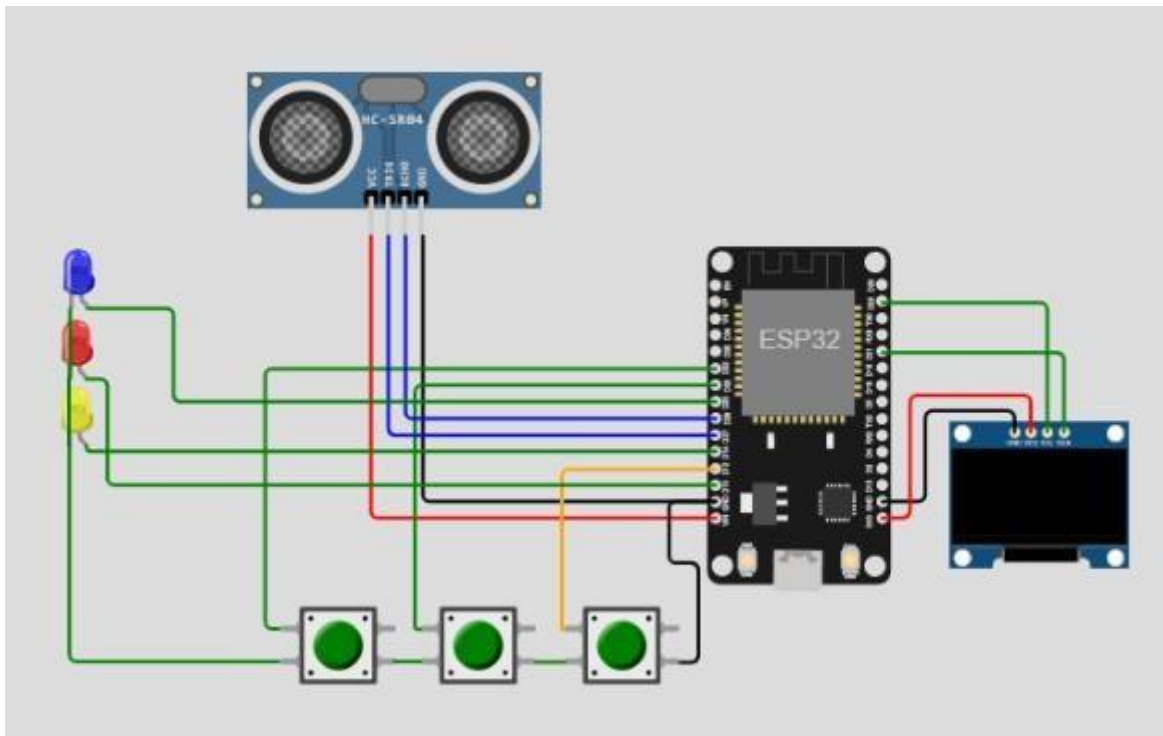


Figure : Block Diagram For Smart Water Management