COLLEGE CODE:9512

COLLEGE NAME:JP COLLEGE OF ENGINEERING

DEPARTMENT:ECE

PROJECT CODE:Proj_211932_Team_2

SMART WATER MANAGEMENT

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PHASE 2:INNOVATION

THE ESSENTIAL NEED OF SMART WATER MANAGEMENT:

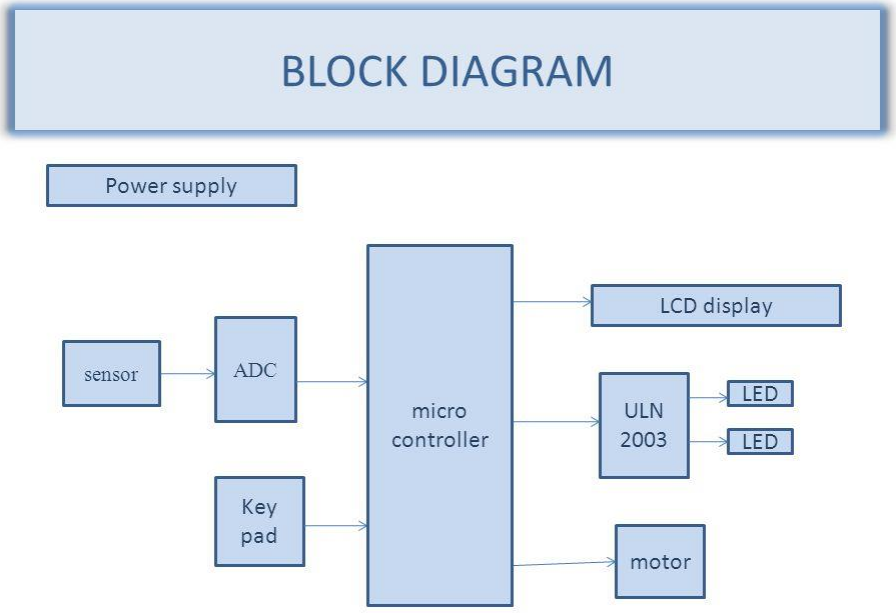
Smart water management is a system that collects, shares, and analyzes data from water equipment and networks to make water usage sustainable and efficient

It is used by water managers to find leaks, lower energy use, predict equipment failure, and ensure regulatory compliance

To identify the need for smart water management, you can consider the following factors:

1. **Water scarcity**: If your area is experiencing water scarcity or droughts, it's essential to manage your water resources efficiently. Smart water management can help you monitor your water usage and identify areas where you can reduce consumption
2. **Water quality**: If you're experiencing issues with your water quality, such as contamination or discoloration, smart water management can help you identify the source of the problem and take corrective action
3. **Water bills**: If you're receiving high water bills, it's possible that you're wasting water or have leaks in your system. Smart water management can help you identify these issues and take corrective action

BLOCK DIAGRAM:



SOLUTIONS:

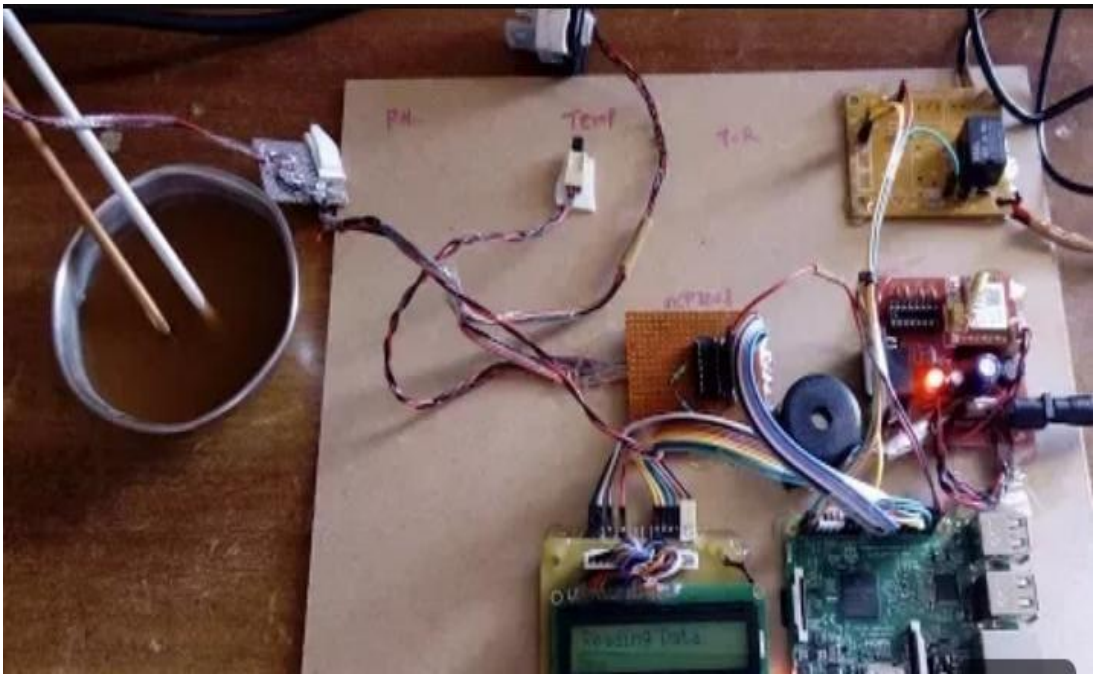
Smart water management systems are designed to help water managers monitor and manage their water resources efficiently .These systems use a combination of **IoT (Internet of Things) technology**, **digital meters and sensors**, **supervisory control and data acquisition (SCADA) systems**, and **geographic information systems (GIS)** to collect, share, and analyze data from water equipment and networks

1.Reduced water loss: Smart water management systems can help you identify leaks in your system and take corrective action, reducing water loss

2.Lower energy use: By monitoring your water usage, smart water management systems can help you identify areas where you can reduce energy consumption

3.Predictive maintenance: Smart water management systems can help you predict equipment failure and take corrective action before it becomes a major problem

MODEL:



CONCLUSION:

Thus the smart water management system is designed to solve the problems in the above manner.