Project Title

# WATER ACCOMPLISH

## Problem Statement

The system is designed to control and manage the water level in a tank automatically. It monitors the water level using sensors and detects when the level becomes low. When the water reaches a minimum point, the system automatically turns on the pump to refill the tank. Once the tank is full, it switches the pump off to prevent overflow. This helps conserve water, reduces wastage, prevents damage to the motor, and ensures a continuous and efficient water supply without manual monitoring.

## Project Team - Robotics & Mech



TEAM 4 - FUSION FORCE

## Team Members

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SDG 6 – Clean Water and Sanitation

SDG Goals

SDG 9 – Industry, Innovation and Infrastructure

## Solution

The system uses sensors to continuously monitor the water level inside the tank. These sensors detect the current level and send signals to a control unit. When the water level falls below a predefined minimum limit, the system automatically activates the pump to refill the tank. As the tank begins to fill, the sensors keep tracking the rising water level. Once the water reaches the maximum set limit, the control unit immediately turns off the pump to prevent overflow and water wastage. This automated process eliminates the need for manual checking and switching of the motor. It also helps in conserving water, reducing electricity consumption, and preventing damage to the pump caused by dry running. The system ensures a steady and reliable water supply for households, buildings, or agricultural use. By using smart sensing technology, it improves efficiency, saves time, and provides a safe, convenient, and cost-effective solution for water management.




