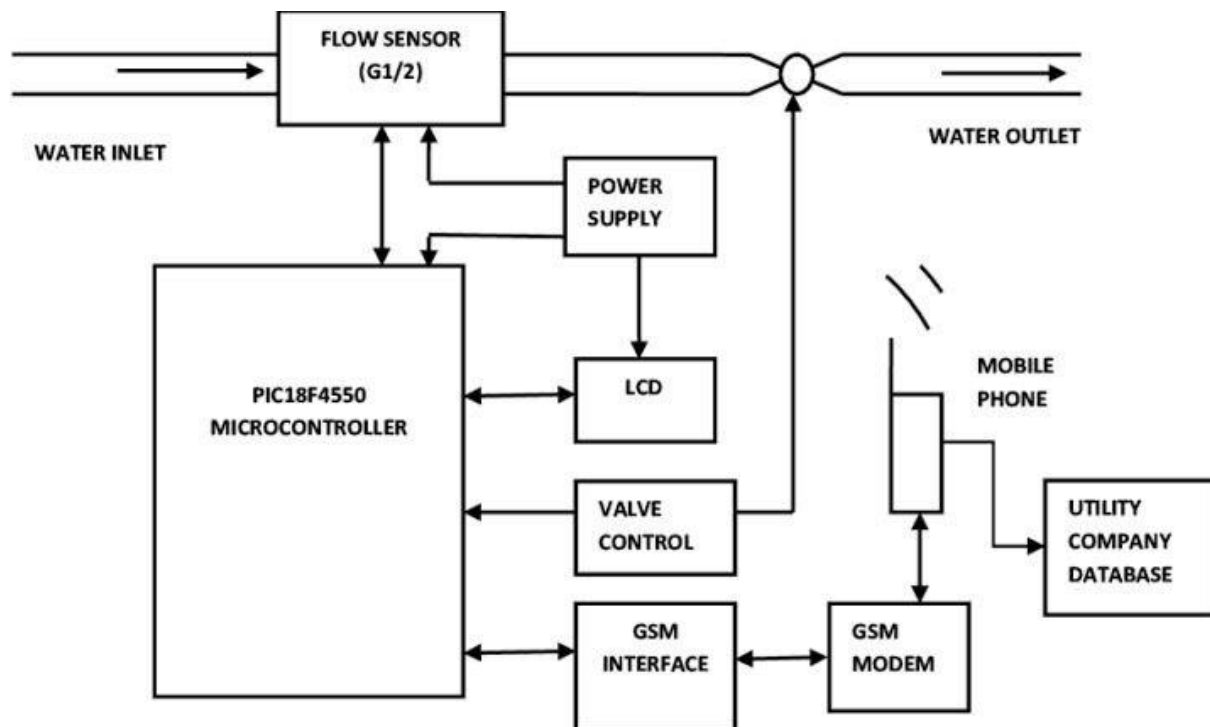


PROJECT DESIGN PHASE-II

DATA FLOW DIAGRAM & USER STORIES

DATE	19 MAY 2023
TEAM ID	NM2023TMID10960
PROJECT NAME	SMART BILLING SYSTEM FOR WATER SUPPLIERS

FLOW DIAGRAM:



The sensor will take the data from the rate of water discharge it passes; this data is the number of turns of the mill on the sensor.

The microcontroller sends the data to the database at central water utility provider through ZigBee via transceiver.

A solenoid valve is used to control the water flow to the user.

USER STORIES:

USER TYPE	FUNCTIONAL REQUIREMENT	USER STORY/TASK	ACCEPTANCE CRITERIA	PRIORITY
Tenant	Consumes water	The system generates bills or invoices for each customer, typically on a regular billing cycle (e.g., monthly or quarterly). The bills include details such as the customer's name, address, meter reading period, consumption volume, and the total amount due.	Checks easily	High
Passenger	Metro stations	The system performs validation checks on the meter readings to ensure their accuracy and integrity. This includes verifying the data format, identifying outliers or suspicious readings, and flagging any potential issues or errors.	Can be more useful and easier to collect due	High
civilians	Municipality	The system can generate reports and provide insights into consumption patterns, revenue trends, and other key metrics.	Easy to charge	Medium

Workers	Organisations	Based on the validated meter readings and the applicable tariff rates, the system calculates the amount owed by each customer for their water consumption.	Consumption by workers in organizations	Low
Patients	Hospital	The received meter readings are stored in a database or data repository. The system maintains a record of historical consumption data for each customer.	Hospital purposes	Medium