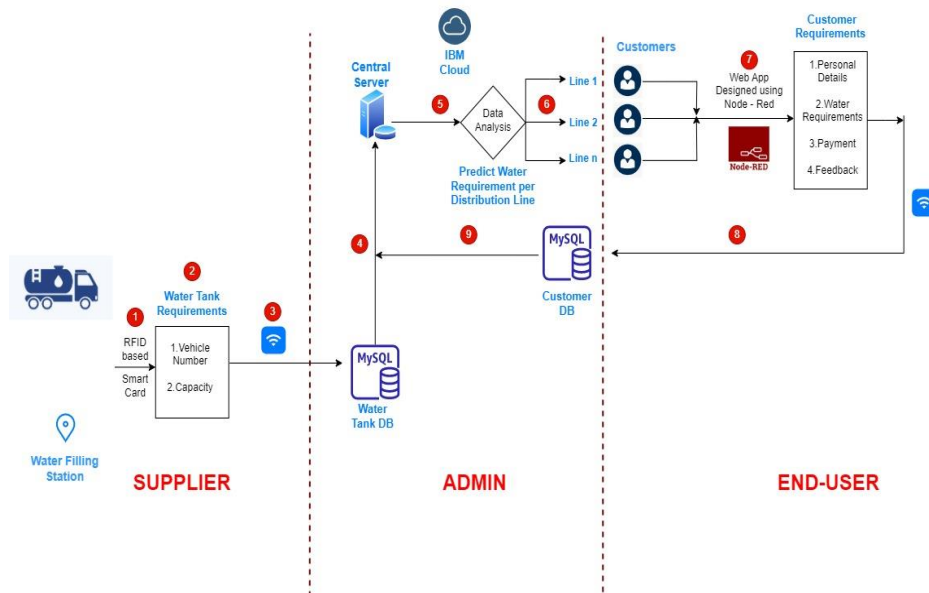


## Project Design Phase-II Data Flow Diagram & User Stories

Date	12 May 2023
Team ID	NM2023TMID21221
Project Name	Project - Smart Billing System for Water Suppliers

### Data Flow Diagrams



1. The supplier have a RFID card, using which they fill their details.
2. The filled data will be transferred to Water Tank DB, which is then transferred to Central Server.
3. Each customer fill their details and makes request for water supply.
4. Now the Data Analysis phase occurs, where the transaction histories and customer statistics are analyzed and displayed in website developed by Node Red.
5. The entered data is then moved into Customer DB and further into Central Server.
6. Water is now supplied by the supplier, bill is generated and customer makes the payment using RFID Smart Card

## User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Team Member
Customer (Web user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sanjay
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sanjay
	Login	USN-3	As a user, I can log into the application by entering email & password	I can login and view my dashboard	High	Sanjay
	Dashboard	USN-4	As a user I can view my profile, book orders for water supply, view my water usage analytics and view my wallet as well.	I can view profile, water usage suggestions and view and recharge wallet	High	Deepak
	Profile	USN-5	As a user I can see my profile details, update it, edit my details etc.	I can see my personal details displayed and it can be updated too.	High	Deepak
	Book Orders	USN-6	As a user I can make a booking for water supply.	I can book an order after which the supplier arrives with the water lorry.	High	Deepak
	Water usage statistics	USN-7	As a user I can see my water usage graphs and recommendations regarding my usage.	I can view my usage analytics how much water I spend in a specified time (Eg. Weekly) and make use of the suggestions.	Low	Shrish
	Wallet	USN-8	As a user, I can view my wallet, my remaining balance and options to recharge as well.	I am able to see my balance and recharge it.	High	Shrish
Supplier	Registration	USN-9	As a water supplier, I can register for the application by entering my email, password, and confirming my password, details about lorry capacity and pipe diameter.	I can access my account / dashboard	High	Jeffrey

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Team Member
	Login	USN-10	As a water supplier, I can log into the application by entering email & password	I can view my profile, dashboard etc.	High	Jeffrey
	Incoming orders	USN-11	As a water supplier, I can view see incoming requests for orders and buttons for accepting orders.	I can either accept or deny the order.	High	Deepak
	Lorry Filling	USN-12	I can fill my lorry with water from locations and pay a bill through rfid cards.	I can obtain water to carry on with orders.	High	Shrish
	Profile	USN-13	As a user I can see my profile details, update it, edit my details etc.	I can see my personal details displayed and it can be updated too.	Low	Deepak
Administrator	Login	USN-14	As an admin, I can login with my admin login and password.	I can view admin dashboard	High	Jeffrey
	Dashboard	USN-15	As an admin, I can monitor that requests, replies to the backend takes place smoothly. I can make changes to the database and oversee the application as well.	I have control over the working of the application. I can make any updates if needed	High	Shrish