

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	06 May 2023
Team ID	NM2023TMID19405
Project Name	SMART BILLING SYSTEM FOR WATER SUPPLIERS

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail Registration through Linked IN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3		
FR-4		

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The usability-focused design of the system enables water suppliers and customers to effortlessly access billing information, make payments, and engage with the system, fostering a positive and seamless user experience

NFR-2	Security	Security is a paramount aspect of the smart billing system, ensuring the protection of sensitive data and preventing unauthorized access. The system employs robust encryption protocols, secure data transmission, and stringent access controls to safeguard customer information, payment details, and operational data. Regular security audits, vulnerability assessments, and adherence to industry best practices further enhance the system's security.
NFR-3	Reliability	. By prioritizing reliability, the smart billing system minimizes disruptions, maximizes uptime, and maintains a high level of service continuity, instilling confidence in water suppliers and ensuring uninterrupted billing processes for their customers
NFR-4	Performance	. By prioritizing performance, the smart billing system provides water suppliers with a responsive and efficient platform for managing billing processes, enhancing operational productivity, and delivering a seamless user experience for both water suppliers and customers
NFR-5	Availability	By emphasizing availability, the smart billing system provides water suppliers with a reliable platform that is accessible at all times, allowing them to efficiently manage billing processes and meet the needs of their customers
NFR-6	Scalability	Scalability refers to the ability of a system to handle increased demand and grow seamlessly. In the context of the smart billing system, scalability means that it can accommodate a growing number of customers and expanding data volumes without compromising performance. The system's architecture and design enable the addition of new users, meters, and data sources without significant disruptions. This scalability ensures that the smart billing system can adapt to the needs of water suppliers as their customer base and operational requirements increase, providing a flexible and future-proof solution.