PROJECT DESIGN PHASE-II
SOLUTION REQUIREMENTS
(FUNCTIONAL &NON-FUNCTIONAL)

DATE	19 May 2023
TEAM ID	**NM2023TMID10960**
PROJECT NAME	**Smart Billing System For Water Supplier**

NON FUNCTIONAL REQUIREMENTS:

Following are the non functional requirements of the proposed solution.

NFR NO.	NON FUNCTIONAL REQUIREMENT (EPIC)	SUB REQUIREMENT (STORY/SUB-TASK)
NFR-1	Performance	A performance attribute type of non-functional requirement measures system performance. Example: In the ADAS surround view system, "rear camera view should be displayed within 2 seconds of starting the Car ignition".

NFR-2	Usability	The input to this app is postcode and radius (in kilometers) from your current location. But to enter these data, if the user has to browse through multiple screens and data entry option is displayed in small text boxes that are not readily visible to a user, then this app is not user-friendly and hence usability of the app will be very low.
NFR-3	Maintainability	Maintainability of a software system is the ease with which the system can be maintained. If the Mean Time Between Failures (MTBF) is low or Mean Time To Repair (MTTR) is high for the system being developed, then the maintainability of the system is considered low.
NFR-4	Portability	Portability means the ability of a software system to work in a different environment if the underlying dependent framework stays the same.
NFR-5	Reliabilty	Reliability is another aspect of availability. This quality attribute emphasizes the availability of a system under certain conditions. It is measured as MTBF just like maintainability.

NFR-6	Serviceability	Serviceability of a software system is the ability of a service/technical expert to install the software system in a real-time environment, monitor the system while it is running, identify any technical issues in the system and provide a solution to resolve the system.

FUNCTIONAL REQUIREMENTS:

Following are the functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description

FR-1	Product Catlog	Between one-time, recurring, and usage or consumption models—not to mention hybrid pricing, combining any or all three models—managing a subscription business's product catalog and plan offerings is a complex task. Add in discounts, promotional rules, and product updates and it's easy to understand why these business teams demand both comprehensive and flexible solutions

FR-2	Customer Communication	Subscriptions have changed the business-consumer relationship. Traditional business models center around one-time purchases; the business-consumer relationship ends once a transaction is complete. Subscription businesses, by contrast, must cultivate a long-term relationship with customers to minimize churn and ensure the recurring revenue upon which they rely.
FR-3	Automated Invoicing	On the topic of customer communications, invoices are the other side of the product catalog management coin. Just as a comprehensive subscription management platform should be able to handle the various complexities a business's catalog presents, so too should it be able to translate delivered products clearly and concisely to customers through invoicing.

FR-4	Finance Management	We touched upon recurring revenue projections earlier, but the importance of robust recurring billing software's role in finance management cannot be understated.
FR-5	Usage/Metering	Invoicing based on usage means, of course, that a billing solution must be able to handle the raw usage data generated by customers and translate that usage effectively into the billing process. This is metering and rating—essential capabilities that ensure each customer is billed appropriately based on their usage and pricing plan.
FR-6	Account Management	Comprehensive subscription billing platforms are also subscription management platforms. The distinction is important: the software doesn't just automate the billing and crunch the financial data—it integrates other essential account management functions such as sign-up, activation, upgrades, downgrades, cancellations, and even re-activation.