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

Date	03 October 2022
Team ID	PNT2022TMID51359
Project Name	Project -Inventory Management System for Retailers
Maximum Marks	4 Marks

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 Gmail
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Login	Username/Email-ID Login with Password
FR-4	Monitors stock of the product	Monitors the stock of the product and updates the stock of the product continuously after selling each product.
FR-5	Low stock products are shown	Low stock products have been highlighted by red colour.
FR-6	Alert notification	By monitoring stock of the product, notification or message will be send to the retailer if the stock is under beyond the threshold.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The system must be easy to use for retailers such that they do not need to read an extensive amount of manuals. The system must be quickly accessible by retailers. The system must be intuitive and simple in the way it displays all relevant data and relationships. The menus of the system must be easily navigable by the users with buttons that are easy to understand.
NFR-2	**Security**	Inventory security aims to prevent inventory losses – for example, due to incorrect storage, theft, or incorrect incoming goods inspection – so that the correct stock is always available.
NFR-3	**Reliability**	The system must give accurate inventory status to the user continuously. Any inaccuracies are taken

		care by the regular confirming of the actual levels with the levels displayed in the system. The system must successfully add any product given by the user and provide estimations and inventory status in relevance with the newly updated entities. The system must provide a password enabled login to the user to avoid any foreign entity changing the data in the system. The system should provide the user updates on completion of requested processes and if the requested processes fail, it should provide the user the reason for the failure. The system should not update the data in any database for any failed processes.
NFR-4	**Performance**	The system must not lag, because the workers using it don't have down-time to wait for it to complete an action. The system must complete updating the databases, adding of products successfully every time the user requests such a process. All the functions of the system must be available to the user every time the system is turned on. The calculations performed by the system must comply according to the norms set by the user and should not vary unless explicitly changed by the user.
NFR-5	**Availability**	The software will be available only to the administrator of the organization and the product, as well as customer details, will be recorded by him. He can manage the inventory.
NFR-6	**Scalability**	Scalability is an aspect or rather a functional quality of a system, software or solution. This proposed system for inventory management system can accommodate expansion without restricting the existing workflow and ensure an increase in the output or efficiency of the process. It is scalable that we are going to use data in kilobytes so that the quite amount of storage is satisfied.