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

Date	03 October 2022
Team ID	PNT2022TMID20685
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 Form ➤ Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	➤ Confirmation via Email ➤ Confirmation via OTP
FR-3	User login	➤ Login with FingerprintsLogin with Password ➤ Login with Username ➤ Login with face Detection
FR-4	Periodic stock checking	➤ Cycle counting ➤ Physical counting
FR-5	Inventory data	➤ FIFO, LILO-based database maintenance and sales administration.
FR-6	Markdown	➤ Show product discount
FR-7	Promotion	➤ keep enough inventory on hand to satisfy demand.
FR-8	Management of Receiving Stock	➤ Documenting things on an inventory accurately
FR-9	Inventory Reports	➤ Automated report generation is the goal of software. ➤ Report on inventory verification. ➤ Report on inventory forecasting.
FR-10	Purchase management and Forecasting	➤ Avoid risky stocks ➤ Product evaluation ➤ ABC, FSC, XYZ, and JIT methodologies

FR No.		
		➢ Review and placement of orders
FR-11	Death stock	➢ Return to the vendor for credits
FR-11	Inventory KPIs (Key PerformanceIndicator)	➢ Sale KPIs ➢ Receiver KPIs ➢ Employee KPIs
FR-12	Returns Management System	➢ Count it in inventory. ➢ Verify any damage.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	➢ The system's presentation of all pertinent data and linkages must be logical and straightforward, and its menus must include buttons that are simple for users to understand. The program is not worthwhile if it takes your team hours to master it. Remember to select a solution that streamlines inventories management.
NFR-2	**Security**	➢ With the administrator's user name and password, the system can only be accessed by authorized users. The process of maintaining inventory involves giving stored products the best possible management control and safety. It is crucial for effective warehouse management because a warehouse's productivity and safety determines how well a firm performs.

NFR-3	**Reliability**	➢ Important for a number of causes. It affects the consistency of your deliveries, but keeps in mind the associated costs as well. Any recipe, ingredients, vendors, or special events must be added by the system successfully, and it must also provide estimates and inventory status relevant to the recently modified entities. The user must constantly receive accurate inventory status from the system. By routinely comparing the real levels to the levels shown in the system, any errors are fixed.
NFR-4	**Performance**	➢ The purpose of inventory performance metrics is to assess the disparity between actual cash on hand and anticipated cost of goods sold. Every time a user requests such a process, the system must successfully complete updating the databases, adding new recipes, ingredients, vendors, and occasions. Every time the system is turned on, all of its features must be accessible to the user. The system's calculations must adhere to the standards established by the user and shouldn't change until the user specifically requests a change.
NFR-5	**Availability**	➢ Only the organization's administrator will have access to the programe, and it is he who will record information on the product as well as the customer. A single item's inventory availability determines whether it is accessible for customer orders. The amount that is now available is one more piece of information that sellers may provide.

NFR-6	**Scalability**	➢ Will the inventory management program or app you select be able to expand along with your business? If your present system becomes inadequate, the last thing you want to do is having to manually enter all of your inventory. A system's capacity to manage an increasing volume of work.