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

Date	10 October 2022
Team ID	PNT2022TMID53537
Project Name	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 username Login with password
FR-4	Centralized Record of all product	Product name, Stock keep unit, brand, retail price, product category, lot number , expire date, vendor details, wholesale cost, minimum reorder amount, case quantity amount, reorder lead time
FR-5	Stock location identification	Provide number label for- Shelf, Rack and Boxes
FR-6	Periodical stock checking	Physical counting and Cycle counting
FR-7	Integration of sales and inventory data	sales administration and database upkeep FIFO,LILO according to the goods
FR-8	Purchase management and Forecasting	Order review and placement, Avoid risk stock, review product, priorities purchases based on an item's profitability, popularity, and lead time, ABC,FSC,XYZ,JIT techniques
FR-9	Markdown and promotion	Show product discount, Maintain enough stock on hand to meet demand.
FR-10	Management of Receiving Stock	Accurately recording goods on an inventory
FR-11	Returns Management System	Check for damage or defects and return to vendor as needed If sellable add it to inventory counts
FR-12	Determination of death stock	Return to the vendor for credits
FR-13	Inventory KPIs(Key Performance Indicator)	Sale KPIs, Receive KPIs, Operational KPIs, Employee KPIs

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	This system must be easy to use by both managers and chefs, such that they do not need to read an extensive number of manuals; it must be quickly accessible by both managers and chefs; it must be intuitive and simple in the way it displays all relevant data and relationships; and the menus of the system are easily navigable by the users with buttons that are easy to understand.
NFR-2	**Security**	The security requirements deal with the primary security. Only authorized users can access the system with user name and password of administrator.
NFR-3	**Reliability**	The system must give accurate inventory status to the user continuously. Any inaccuracies are corrected by regularly comparing the actual levels to the levels displayed in the system. The system must successfully add any recipe, ingredients, vendors, or special occasions given by the user and provide estimations and inventory status in relevance to the newly updated entities.
NFR-4	**Performance**	The system must not lag, because the workers using it don't have downtime to wait for it to complete an action. The system must successfully complete updating the databases, adding new recipes, ingredients, vendors, and occasions 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 with 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 administrator of the organization and the product as well as customer details will be recorded by him. He can add customers, Update and delete them as well as add new products and manage them
NFR-6	**Scalability**	The ability of a system to handle a growing amount of work.