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

Date	17 October 2022
Team ID	PNT2022TMID43303
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	Registering through a form Registering through mail
FR-2	User Confirmation	Email confirmation OTP confirmation
FR-3	Login	Log in to the application by entering required credentials (email ID and password)
FR-4	Dashboard	View the products details (Name, quantity)
FR-5	Add items to the Inventory list	Users can add items that they wish to buy to the inventory
FR-6	Stock Updation	Increasing the availability of a particular product

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	If the system has a steep learning curve, then it would mostly not be purchased by the company needing an inventory management system. • The UI is simple and easy to navigate • Consistent design and colours are used. • The webpages are responsive • Email delivery is to be fast
NFR-2	**Security**	Security refers to the safety and management of the inventory of a company such that only authorised personnel are allowed to access them. • Login system is used to provide authentication. • Users need to create account and verify it with their email OTP. • Cookie based security is user for authentication on client side.

NFR-3	**Reliability**	- Exception handling will be done at the code level to ensure that the app performs well even when errors happen in the runtime - Multiple instances of the App would be online to ensure continued operation
NFR-4	**Performance**	Performance of an inventory management system depends on the efficiency with which various tasks in it can be executed. - Reduces manpower, cost and saves time. Emails will be sent automatically when stocks are not available. - Makes the business process more efficient. - Improves organizations performance. - It will be perform fast and secure even at the lower bandwidth
NFR-5	**Availability**	The use of IBM DB2 ensures high availability
NFR-6	**Scalability**	The scalability of an inventory management system refers to the extensibility of its operations. - DB2 is highly Scalable - The code is developed efficiently to easily add new features without many changes by reusing the code. - Docker in IBM Container registry is used which is highly scalable