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

Date	03 October 2022
Team ID	PNT2022TMID26359
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	Sign in	Sign in to the application by LinkedIn/Gmail, Username and Password.
FR-4	Dashboard	Can view the product details and offers.
FR-5	Booking	The required products are selected and booked.
FR-6	Shipping	To track the delivery details of the selected product.
FR-7	Restocking	Ordering more products when the stock is low.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	✓ Creating a learning curve into the site's design and development. ✓ Having a user-friendly, straightforward website. Beautiful-looking website. ✓ Making the website responsive for consumers on both desktops and mobile devices.
NFR-2	**Security**	✓ Strong security is necessary to prevent hackers from accessing the accounts or data of authorized users. To demonstrate authentication and authorization, log in systems is utilized. ✓ Utilizing OTP can improve security.

		✓	Cookies-based security mechanism for user authentication and enhanced website user experience.
NFR-3	**Reliability**	✓	When the website is active, it should be able to manage the necessary number of users without slowing or causing any inconvenience to the user.
		✓	While running the apps, there should be few mistakes.
		✓	It should be accessible even during disasters.
NFR-4	**Performance**	✓	This has the advantage of cutting down the time needed for aisle and product searches, among other conveniences.
		✓	It decreases expenses, saves time during restocking, and forecasts the top-selling goods.
		✓	Due to the business's streamlined management system, it is more productive and profitable.
NFR-5	**Availability**	✓	To provide high availability of database servers and performances, this employs IBM DB2.
NFR-6	**Scalability**	✓	Due to DB2's excellent scalability, coding can be created and developed quickly, and new features can be added without much difficulty.
		✓	Any new functionality can be added by reusing the code.
		✓	High-scalability IBM Container is utilised in the Docker registry.