

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

Date	03 October 2022
Team ID	PNT2022TMID10615
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	<ul style="list-style-type: none">✓ 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	<ul style="list-style-type: none">✓ 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.

		<ul style="list-style-type: none"> ✓ Cookies-based security mechanism for user authentication and enhanced website user experience.
NFR-3	Reliability	<ul style="list-style-type: none"> ✓ 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	<ul style="list-style-type: none"> ✓ 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	<ul style="list-style-type: none"> ✓ To provide high availability of database servers and performances, this employs IBM DB2.
NFR-6	Scalability	<ul style="list-style-type: none"> ✓ 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.