

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

Date	1 November 2022
Team ID	PNT2022TMID53370
Project Name	Inventory Management System for Retailers
Maximum Marks	4 Marks

**Requirements:**

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Utilizing a Form for Registration signing up with Gmail Using a username and password to register
FR-2	User Confirmation	Email confirmation required Reassurance via OTP
FR-3	Sign In	Log in to the program using your Gmail account, username, and password.
FR-4	Dashboard	can see product information.
FR-5	Ordering	Put necessary items in a cart first and then place an order for them.
FR-6	Restocking	increasing product orders when the supply is low.

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	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	<b>Security</b>	Strong security is necessary to prevent hackers from accessing the accounts or data of authorised users. To demonstrate authentication and authorization, log in systems are utilised. Utilizing OTP can improve security. Cookies-based security mechanism for user authentication and enhanced website user experience.

NFR-3	<b>Reliability</b>	<p>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.</p> <p>While running the apps, there should be few mistakes.</p> <p>should be accessible even during disasters.</p>
NFR-4	<b>Performance</b>	<p>This has the advantage of cutting down on the time needed for aisle and product searches, among other conveniences.</p> <p>It decreases expenses, saves time during restocking, and forecasts the top-selling goods.</p> <p>Due to the business's streamlined management system, it is more productive and profitable.</p>
NFR-5	<b>Availability</b>	<p>To provide high availability of database servers and performances, this employs IBM DB2.</p>
NFR-6	<b>Scalability</b>	<p>As DB2 is highly scalable, the coding can be produced and developed efficiently and new features can be introduced easily.</p> <p>Reusing the code can be done to add any new features.</p> <p>IBM Container in Docker registry is used which is highly scalable.</p>