

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

Date	03 October 2022
Team ID	PNT2022TMID17815
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 Username and Password
FR-2	User Confirmation	Confirmation via Phone number / E-mail address Confirmation via OTP
FR-3	Sign In	Retailers can log in to the application by their registered Username and Password.
FR-4	Dashboard	Retailers can view their stock details.
FR-5	Ordering	Order required products by putting them in a cart first.
FR-6	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	<b>Usability</b>	Designing/Developing the site to be having a learning curve. Having user friendly website for users. Attractive interface for web-page. Making the web page responsive for desktops and mobile users.
NFR-2	<b>Security</b>	The security should be strong as to the attackers won't be penetrating to the authorized users account or data. Log in system has the 2-step verification for their ID. They can log in to their id by receiving OTP for their registered Mobile or E-mail. Cookies based security system for authentication and improved visiting experience on the site for clients.

NFR-3	<b>Reliability</b>	<p>The software having the capacity to handle sufficient numbers of users.</p> <p>And there is no lagging or discomfort feeling when browsing about stock when the web-page is busy.</p> <p>Should have minimum errors while executing the programs.</p> <p>Should be available even at the times of calamity.</p>
NFR-4	<b>Performance</b>	<p>The response time for the software is low while operating in system.</p> <p>The convenience of this is it reduces the time period of searching in aisle, searching for desired product, etc.</p> <p>It reduces costs, saves time, restocking period and predicts the top selling products.</p>
NFR-5	<b>Availability</b>	<p>This uses IBM DB2 to ensure high availability of database servers and performances.</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>