

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

Date	03 October 2022
Team ID	PNT2022TMID17895
Project Name	Project - Retail Store Stock Inventory Analysis
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
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Inventory Management	Maintaining stocks in warehouse Remove or add stocks in warehouse
FR-4	Sales Forecasting	Visualize the sales of the product from past data Predict customers demand
FR-5	Barcode Scanning	Scan the barcode in raw material package. Add the product details to the database when scanned.
FR-6	Admin Management	Add or remove retailers. Maintains retailer details.
FR-7	Report Generation	Displays the warehouse details in the dashboard. Notifies if stock is inadequate.

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	The retail store management system has a simple and user friendly interface. Each user has their own dashboard. The system must fully support languages that business operates on.
NFR-2	<b>Security</b>	Users will be able to access only their own personal information and not that of others. Financial data must be secured with two factor authentication.
NFR-3	<b>Reliability</b>	The average time of failure for the system is 30 days. In the event that the server crashes, the system will take a week to be running again.

NFR-4	<b>Performance</b>	The average time of failure for the system is 30 days. In the event that the server crashes, the system will take a week to be running again.
NFR-5	<b>Availability</b>	This system will be available 24x7, with the exception of being down for maintenance no more than 3 hours a week. If the system crashes, it should be back up within a week.
NFR-6	<b>Scalability</b>	The system must support implementing new features modules without disrupting existing processes. The system must support horizontal scaling launching new stores with multiple POS.
NFR-7	<b>Maintainability</b>	Any updates or defect fixes shall be able to be made on server-side computers only, without any patches requiring the user.