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

Team ID	PNT2022TMID18287
Project Name	Retail Store Stock Inventory Analytics

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
FR-3	User Login	• Login with form and Gmail
FR-4	Stock Extension	• User should be able to add/update sales data • User can generate the barcode to their corresponding stocks
FR-5	Stock Management	• Stock prediction using data science • Sales inventory report will be periodically generated • Notification of the products which is going to be expired
FR-6	Billing System	• Utilizing barcodes on products for rapid billing • The billing invoice accurately calculates taxes • Automated invoice generation in printable format

Non-functional Requirements:

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

NFR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	• They are more likely to have the right amount of inventory to take advantage of every potential sale while avoiding overstocking and cutting costs. Both desktop and mobile browsers can handle this architecture.
NFR-2	**Security**	• Sha-256 data protection will be provided • It is impossible to go around authentication
NFR-3	**Reliability**	• It will provide accurate stock prediction • It will prevent overselling of stocks • Reduce risks of major loss for the retailer by predicating accurately • Reliable notification system
NFR-4	**Performance**	• The Retailer will get the rapid invoice with the help of barcode. The invoice will contain each customer details such as Name, Address, Phone no, Purchasing products etc., • It will give accurate efficiency with the given sales stock • Data quality improvement will be performed before stock predication • Works good with moderate network stability and bandwidth
NFR-5	**Availability**	• Accessible on all devices • Run efficiently at the bare minimum specifications
NFR-6	**Scalability**	• Many users can access simultaneously without any glitch • Data can be imported and exported as json files