

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

Team ID	PNT2022TMID18287
Project Name	Project – 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	<ul style="list-style-type: none"><li>Registration through Form</li><li>Registration through Gmail</li><li>Registration through LinkedIn</li></ul>
FR-2	User Confirmation	<ul style="list-style-type: none"><li>Confirmation via Email</li><li>Confirmation via OTP</li></ul>
FR-3	User Login	<ul style="list-style-type: none"><li>Login via form</li><li>Login via Email</li></ul>
FR-4	Stock Updating	<ul style="list-style-type: none"><li>Adding/Removing Stocks</li><li>Generating barcodes for products</li></ul>
FR-5	Stock Management	<ul style="list-style-type: none"><li>Predicting Out of stock and less brought stocks</li><li>Periodic generation of reports using Cognos analytics tool</li><li>Notification of the product regarding out of stock and expiry</li></ul>
FR-6	Billing Management	<ul style="list-style-type: none"><li>Fast billing through barcode</li><li>Quick generation of invoice after tax calculation</li><li>Discounts based on credit points</li></ul>

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	<ul style="list-style-type: none"><li>Prediction of stocks reduce out of stocks and cost</li><li>Compatible with mobile and desktop</li></ul>
NFR-2	<b>Security</b>	<ul style="list-style-type: none"><li>Authentication of users to defend against other users</li><li>People without proper credentials cannot access the application</li></ul>
NFR-3	<b>Reliability</b>	<ul style="list-style-type: none"><li>Provides Accurate Stock prediction</li><li>Reduce loss for retailer</li><li>Notification system for expiry and out of stock products</li></ul>

NFR-4	<b>Performance</b>	<ul style="list-style-type: none"> <li>• Instant invoice generation using barcode</li> <li>• Improved accuracy in sales prediction</li> <li>• Real time report generation</li> <li>• Working on large sets of data</li> </ul>
NFR-5	<b>Availability</b>	<ul style="list-style-type: none"> <li>• Accessible by all devices</li> <li>• Suitable for all kind of retail stores</li> <li>• Real time visibility into stock levels</li> </ul>
NFR-6	<b>Scalability</b>	<ul style="list-style-type: none"> <li>• Many Retailers can access the application without any issues</li> <li>• Allows adding of new features</li> </ul>