

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

<b>Team ID</b>	PNT2022TMID23114
<b>Project Name</b>	Retail Store Stock Inventory Analytics

**Functional Requirements:**

Following are the functional requirements of the proposed solution:

<b>FR No.</b>	<b>Functional Requirement (Epic)</b>	<b>Sub Requirement (Story / Sub-Task)</b>
FR-1	User Registration	<ul style="list-style-type: none"><li>• Registration through Form</li><li>• Registration through Gmail</li></ul>
FR-2	User Confirmation	<ul style="list-style-type: none"><li>• Confirmation via Email</li></ul>
FR-3	User Login	<ul style="list-style-type: none"><li>• Login with form and Gmail</li></ul>
FR-4	Stock Extension	<ul style="list-style-type: none"><li>• User should be able to add/update sales data</li><li>• User can generate the barcode to their corresponding stocks</li></ul>
FR-5	Stock Management	<ul style="list-style-type: none"><li>• Stock prediction using data science</li><li>• Sales inventory report will be periodically generated</li><li>• Notification of the products which is going to be expired</li></ul>
FR-6	Billing System	<ul style="list-style-type: none"><li>• Utilizing barcodes on products for rapid billing</li><li>• The billing invoice accurately calculates taxes</li><li>• Automated invoice generation in printable format</li></ul>

## Non-functional Requirements:

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

<b>NFR No.</b>	<b>Non-Functional Requirement</b>	<b>Description</b>
NFR-1	<b>Usability</b>	<ul style="list-style-type: none"><li>• 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.</li></ul>
NFR-2	<b>Security</b>	<ul style="list-style-type: none"><li>• Sha-256 data protection will be provided</li><li>• It is impossible to go around authentication</li></ul>
NFR-3	<b>Reliability</b>	<ul style="list-style-type: none"><li>• It will provide accurate stock prediction</li><li>• It will prevent overselling of stocks</li><li>• Reduce risks of major loss for the retailer by predicating accurately</li><li>• Reliable notification system</li></ul>
NFR-4	<b>Performance</b>	<ul style="list-style-type: none"><li>• 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.,</li><li>• It will give accurate efficiency with the given sales stock</li><li>• Data quality improvement will be performed before stock predication</li><li>• Works good with moderate network stability and bandwidth</li></ul>
NFR-5	<b>Availability</b>	<ul style="list-style-type: none"><li>• Accessible on all devices</li><li>• Run efficiently at the bare minimum specifications</li></ul>
NFR-6	<b>Scalability</b>	<ul style="list-style-type: none"><li>• Many users can access simultaneously without any glitch</li><li>• Data can be imported and exported as json files</li></ul>