

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

Date	03 October 2022
Team ID	PNT2022TMID15822
Project Name	Project – Inventory Management for Retailers
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	<ul style="list-style-type: none">• Registration through Form• Registration through Gmail
FR-2	User Confirmation	<ul style="list-style-type: none">• Confirmation via Email• Confirmation via OTP• Authentication via Google Authentication
FR-3	Data Management	<ul style="list-style-type: none">• Add the products and enter the details about the products.• Quickly produce reports for single or multiple products.• Track information of dead and fast-moving products.• Track information of suppliers and manufacturers of the product.
FR-4	History of Data	<ul style="list-style-type: none">• Keeps track of the products in the warehouse and always updates the value in the cloud database.• If a shortage of any product is found then the retailers will receive an E-mail about the shortage of product.
FR-5	Audit Monitoring	<ul style="list-style-type: none">• The technique of tracking crucial data is known as audit tracking.• Monitor the financial expenses carried out throughout the whole time (from

		receiving order of the product to delivery of the product).
FR-6	CRM (Customer Relationship Management)	<ul style="list-style-type: none"> Track the customer experience via ratings given by them. Get customer reviews regularly or at-least at the time of product delivery to work on customer satisfaction. User-friendly GUI to increase the customer base from only techies to normal people. Special offers for regular customers have to be provided through credits in the web-app itself.
FR-7	Warehouse Location and Return, Replacement Policies	<ul style="list-style-type: none"> Warehouse are prepared according to the preferred locations. Return and Replacements policies plays a major role in customer satisfaction. Return the product which is received wrongly or defective is made easy. Replacement of the defective product is made easier.
FR-8	Security Policies	<ul style="list-style-type: none"> User data collected must be as secure as possible. User data must not be misused. They can only be used for user preferred advertising purposes.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	<ul style="list-style-type: none"> The UI should be accessible to everybody despite of their diversity in languages. People with some impairments should also be able to use the application with ease. (Example, integrate google assistant so that blind people can use it).

		<ul style="list-style-type: none"> • The app and UI should be platform and device independent. • It should be compatible with wide range of devices possible.
NFR-2	Security	<ul style="list-style-type: none"> • The security requirements deal with the primary security. • Only authorized users can access the system with their credentials. • Administrator or the concerned security team should be alerted on any unauthorized access or data breaches so as to rectify it immediately.
NFR-3	Reliability	<ul style="list-style-type: none"> • The software should be able to connect to the database in the event of the server being down due to a hardware or software failure. • The recovery of the application should be immediate such that the downtime of the application should be negligible. • The users must be intimated by the periodic maintenance break of the server so that they will be aware of it.
NFR-4	Performance	<ul style="list-style-type: none"> • Performance of the app should be reliable with high-end servers on which the software is running.
NFR-5	Availability	<ul style="list-style-type: none"> • The software should be available to the users 24/7 with all functionalities working. • New module deployment should not impact the availability of existing modules and their functionalities.
NFR-6	Scalability	<ul style="list-style-type: none"> • The whole software deployed must be easily scalable as the customer base increases.