PROJECT DESIGN PHASE-II

Solution Requirements (Functional &Non -Functional)

DATE	15 October 2022
TEAM ID	PNT2022TMID07720
PROJECT NAME	INVENTORY MANAGEMENT SYSTEM FOR RETAILORS
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 using Business e-mail
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Account Completion	Filling the details required to maintain an inventory
FR-4	Allocating hub manager	Providing restricted access to the hub managers to maintain entire hub's in a single login using access policy.
FR-5	Analysis of demand /stock moment	Regular communication regarding stock moment to the user. Using sendgrid mail service and also using IBM Watson Ai Chat Bot.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	It avoid manual entry so mistakes can be avoided and it also gives us regular notification about the stock moment because of that we can able to maintain inventory in an efficient way.
NFR-2	**Security**	Here we are providing two step authentication to provide a better security as well the owner of the account has full access to their accounts he/she can restrict other user this will provide better security because each and every action will be monitored.
NFR-3	**Reliability**	The product is going to be developed in microservice architecture so the complexity of the software will be reduced and it will improve the performance. each and every module will be loosely coupled so failure of one module will not lead to failure of entire system.
NFR-4	**Performance**	Hence we are going to develop the product in microservice architecture each and every module is going to have their own environment so traffic in one module will not affect other

		because of that we can able to provide a smooth service to our customer.
NFR-5	**Availability**	We will ensure the availability of the product 24/7 using microservice architecture. In microservice architecture each and every module has its own environment and they are loosely coupled to other module which will not lead to shut down of the entire system.
NFR-6	**Scalability**	We will try to provide storage space according to their need so it will ensure smooth functioning of the system .And we will provide an option to increase /decrease the storage space according to their need .and also limit the computation power according to their need.