PROJECT DESIGN PHASE – II

SOLUTION REQUIREMENT (FUNCTIONAL AND NON-FUNCTIONAL)

PROJECT NAME	INVENTORY MANAGEMENT SYSTEM FOR RETAILERS
TEAM MEMBERS:	1) AADHARSH RAM 2) BHUVANESHWAR 3) DHEEPAK RAAJ 4) JYOTIR ADITYA GIRI

FUNCTIONAL REQUIREMENTS:

FR No.	Functional Requirement	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail Registration through Username and Password
FR-2	User Confirmation	Confirmation via Email
FR-3	Sign in	Sign in to the application by username and password
FR-4	Dashboard	Can view the product details
FR-5	Ordering	Order required products by putting them in a cart first
FR-6	Restocking	Ordering more product when the stock is low

NON-FUNCTIONAL REQUIREMENTS:

NFR NO.	Non-Functional Requirement	Description
NFR-1	Usability	Designing/Developing the site to be having a learning curve. Having simple and easy to navigate website for users. Attractive looking web-page. Making the site to be responsive for desktops and mobile users.
NFR-2	Security	The security should be strong as to the attackers wont be penetrating to the authorized users account or data. Log in system is used to prove authentication and authorization. Security can be increased by using OTP. Cookies based security system for authentication and improved visiting experience on the site for clients.
NFR-3	Reliability	Should be having the capacity to handle sufficient numbers of users and not be lagging or experiencing any discomfort when browsing when the web-page is busy. Should have minimum errors when executing the programs. Should be available even at the times of calamity
NFR-4	Performance	The convenience of this is it reduces the time period of searching in aisle, searching for desired product, etc. It reduces costs, saves time, restocking period and predicts the bestselling products. This makes the business more productive and profitable by having an organized management system.
NFR-5	Availability	This uses IBM DB2 to ensure high availability of database servers and performances
NFR-6	Scalability	As DB2 is highly scalable, the coding can be produced and developed efficiently and new features can be introduced easily. Reusing the code can be done to add any new features. IBM Container in Docker registry is used which is highly scalable.