**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

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| Date | 03 October 2022 |
| Team ID | PNT2022TMID21037 |
| Project Name | Inventory Management System for Retailers |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

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| **FR 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. |

Following are the functional requirements of the proposed solution.

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| **FR No.** | **Functional Requirement (Epic)** | **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 Confirmation via OTP |
| FR-3 | Sign In | Sign in to the application by Gmail, 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 products when the stock is low. |

**Non-functional Requirements:**

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

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| 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 best selling 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 scaleable. |