Project Design Phase-II

Solution Requirements (Functional & Non-functional)

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| Team ID | PNT2022TMID13856 |
| Project Name | Inventory Management System for Retailers |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

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| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | User Registration | Registration through Form Registration through Gmail |
| FR-2 | User Confirmation | Confirmation via Email Confirmation via OTP |
| FR-3 | User Login | Login with username Login with Email  Login with password |
| FR-4 | Dashboard | View product availability, name of the product, stock keep unit, brand, retail price, product category, lot number, expiration date, vendor information, wholesale  cost, etc., |
| FR-5 | Identification of the stock location | Provide number label for - shelf, rack, and boxes |
| FR-6 | Periodical stock checking | Automate the tracking of stock count |
| FR-7 | Purchase management and Forecasting | Order review and placement, avoid risk stock, review product, priorities purchases based on an item's profitability, popularity, and lead time. |
| FR-8 | Returns Management System | Examine for flaws or damage and return to the vendor if necessary. Add it to inventory counts if it is sellable. |

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| FR-9 | Markdown and promotion | Display product savings, keep enough inventory on hand to satisfy demand. |
| FR-10 | Calculating the death stock | Return the stock to the vendor for credits |

**Non-functional Requirements:**

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| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | The success of deploying an inventory monitoring system in your company depends on usability. The system must be user-friendly and straightforward in the manner it presents all pertinent data and linkages, and its menus must include buttons that are simple to grasp. The software is not worthwhile if training takes hours for your workforce. Remember to pick a solution that makes inventory management simple. This variant is compatible with desktop  browsers. |
| NFR-2 | **Security** | It is the method for making sure that kept goods are safe and under the best management control. It is crucial for effective warehouse management because a warehouse's productivity and safety determine how well a firm performs. In this case, only authorized people with their username and password  can access the system. |
| NFR-3 | **Reliability** | The user must constantly receive accurate inventory status from the system. By routinely comparing the real levels to the levels shown in the system, any  errors are fixed. |
| NFR-4 | **Performance** | Every time a user requests a process, the system must successfully complete the tasks like updating the stocks in the database, adding new stocks, and deleting it. Every time the system is turned on, all its features must be accessible to the customer. The system's calculations must adhere to the standards established by the customer and should not change  until the customer specifically requests a change. |

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| NFR-5 | **Availability** | Only the organization's admin will have access to the software, and it is he who will record information of the product as well as the customer details. A single item's inventory availability determines whether it is accessible for customer orders. The admin can also add, remove, or update the stock and stock details  respectively. |
| NFR-6 | **Scalability** | The business will become considerably more scalable with the use of an automated inventory management system for inventory tracking, enabling it to capitalize on rising sales and maintain steady growth. |