

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

| | |
|---------------|--|
| Team ID | PNT2022TMID00387 |
| Project Name | Retail Store Stock Inventory Analytics |
| 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 through Form Registration through Linked IN Registration through Website Registration through G-mail |
| FR-2 | User Confirmation | Confirmation via Email Confirmation via OTP |
| FR-3 | User Login | Login with username Login with password |
| FR-4 | Profile update | Update the user credentials Update the Contact details |
| FR-5 | Uploading Data | Collect the customer details as well as product details Upload the product details This model predicts the best sold products and also it analysis the available stocks |
| FR-6 | Recommendation | User will request for Item Get the Item recommendations |
| FR-7 | Ratings and Reviews | The user i.e retailer of any shop can give their ratings and view of this models |

Non-functional Requirements:

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

| FR No. | Non-Functional Requirement | Description |
|---------------|-----------------------------------|---|
| NFR-1 | Usability | They are more likely to prevent overstocking and to have just the right amount of inventory to take advantage of every potential sale. Mobile and desktop browsers may both support this concept. |
| NFR-2 | Security | Users with valid login credentials are the only ones who can use this. |
| NFR-3 | Reliability | Avoid over or under stocking Ensure accurate inventory valuation Prevent order delays Reduce dead stock |
| NFR-4 | Performance | The billing process is now entirely digital in department stores. Customers' names, phone numbers, addresses, and purchase information are all contained in the customer database, which is part of the dataset. This information allows the programme to forecast both dead stocks and stocks with significant profits. Multiple checks will be made to make sure that this model is accurate. |
| NFR-5 | Availability | This design is appropriate for all types of retail establishments. It can provide real-time stock visibility for merchants, prevent stock outs, keep inventory carrying costs low, and assist shops meet customer expectations. |
| NFR-6 | Scalability | There are no problems when more users are logged in at once. The user's feedback will be considered, and the process will continue until the user is completely satisfied. |

