**Requirement Gathering and Analysis Phase**

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

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| Date | 6 July 2024 |
| Team ID | SWTID1720077433 |
| Project Name | Grocery App |
| Maximum Marks |  |

**Functional Requirements:**

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 Gmail |
| FR-2 | Browsing Products | Allow users to browse and view product listings. |
| FR-3 | Product Search and Filter | Provide search functionality and filters to help users find specific products. |
| FR-4 | Shopping Cart Management | Enable users to add items to their cart, review their selections, and proceed to checkout. |
| FR-5 | Checkout and Payment Processing | Implement a secure checkout process with payment options. |
| Fr-6 | Inventory Management for Businesses | Provide tools for businesses to manage their inventory. |

**Non-functional Requirements:**

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

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| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | * The user interface should be intuitive, easy to navigate, and visually appealing. * Accessibility: Ensure compliance with accessibility standards for users with disabilities. |
| NFR-2 | **Security** | * User data (including passwords) must be securely stored and transmitted. * Implement authentication and authorization mechanisms to control access to sensitive features. |
| NFR-3 | **Reliability & Availability** | * The system should have high availability, minimizing downtime. * Implement backup and disaster recovery procedures. |
| NFR-4 | **Performance** | * The system should respond quickly to user interactions, with minimal latency. * Page load times for product listings and search results should be within acceptable limits. |
| NFR-6 | **Scalability** | * The solution should handle varying loads, especially during promotions or seasonal spikes. * Autoscaling: Dynamically adjust resources based on demand. |