**Requirement Gathering and Analysis Phase**

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

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| Date | 4-07-2024 |
| Team ID | SWTID1719938063 |
| Project Name | ShopEZ: E-Commerce Application |
| Maximum Marks | 2 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 | 1. Registration through Gmail 2. Registration through Phone Number |
| FR-2 | User Confirmation | 1. Confirmation via Email 2. Confirmation via OTP |
| FR-3 | Product Management | 1. Adding new products 2. Updating existing products 3. Deleting products |
| FR-4 | Search Functionality | 1. Basic search by product name 2. Advanced search with filters(category,price range,brand) |
| FR-5 | Shopping Cart | 1. Adding items to the cart 2. Updating quantities of items in the cart   3 )Removing items from the cart |
| FR-6 | Order Management | 1. Placing orders 2. Viewing order history 3. Order tracking |
| FR-7 | Payment Processing | 1. Integration with payment gateways (e.g., PayPal, credit/debit cards) 2. Secure payment transactions |
| FR-8 | User Reviews and Ratings | 1. Adding reviews for purchased products 2. Rating products |
| FR-9 | Customer Support | 1. Contact form for customer inquiries 2. Live chat support |
| FR-10 | Notifications | 1. Email notifications for order confirmations, shipping updates, and promotions 2. SMS/WhatsApp notifications for order status |

**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** | 1. User-friendly interface 2. Intuitive navigation |
| NFR-2 | **Security** | 1. Secure user authentication and authorization 2. Data encryption for sensitive information 3. Protection against common security threats (e.g., SQL injection, XSS) |
| NFR-3 | **Reliability** | 1. Consistent system performance 2. Error handling and recovery procedures |
| NFR-4 | **Performance** | 1. Fast page load times 2. Efficient database queries |
| NFR-5 | **Availability** | 1. High availability with minimal downtime 2. Backup and disaster recovery solutions |
| NFR-6 | **Scalability** | 1. Ability to handle an increasing number of users and transactions 2. Scalable architecture to accommodate future growth |