## 3.2 Technical Requirements (TRD)

### Search for Products

* T1: Search Term - Search term is required
* T2: Search Term - Special characters are not allowed
* T3: Search Term - Search term must not be blank
* T4: Search Term - Search term must be at least 3 characters long
* T5: Filters - Filters must be valid options

### View Detailed

* T1: Product ID - Product ID is required
* T2: Product ID - Special characters are not allowed
* T3: Product ID - Characters are not allowed
* T4: Product ID - Product ID must exist in the system

### Suitable Product

* T1: Filters - At least one filter must be applied
* T2: Filters - Invalid filter values
* T3: Price Range - Minimum price must be less than maximum price
* T4: Category - Category must be a valid category

### Add to Cart

* T1: Product ID - Product ID is required
* T2: Quantity - Quantity must be a positive number
* T3: Quantity - Maximum quantity exceeded
* T4: Product ID - Product must be available in stock

### Login

* T1: Username - Username is required
* T2: Password - Password is required
* T3: Username - Special characters are not allowed
* T4: Password - Minimum length requirement not met
* T5: Account Status - Account must be active

### Checkout

* T1: Payment Method - Payment method is required
* T2: Address - Delivery address is required
* T3: Address - Invalid address format
* T4: Payment Method - Payment method must be valid
* T5: Cart - Cart must not be empty

### Change Profile

* T1: Customer Name - Customer name is required
* T2: Customer Name - Special characters are not allowed
* T3: Email - Invalid email format
* T4: Phone Number - Invalid phone number format
* T5: Address - Address must be valid

### Accumulated Points

* T1: Customer ID - Customer ID is required
* T2: Points - Points must be a positive number
* T3: Points - Points must be within the valid range

### Purchase Orders

* T1: Order ID - Order ID is required
* T2: Order Date - Invalid order date
* T3: Customer ID - Customer ID is required
* T4: Order Status - Order status must be valid

### Address

* T1: Address - Address is required
* T2: Address - Special characters are not allowed
* T3: Zip Code - Zip code must be valid
* T4: Country - Country must be a valid country

### Existing Vouchers

* T1: Voucher Code - Voucher code is required
* T2: Voucher Code - Invalid voucher code format
* T3: Voucher Code - Voucher must not be expired
* T4: Voucher Code - Voucher must be applicable to the products

### User Review

* T1: Product ID - Product ID is required
* T2: Review Text - Review text is required
* T3: Rating - Rating must be between 1 and 5
* T4: Customer ID - Customer ID is required
* T5: Review Text - Review text must not exceed 500 characters

### Products Viewed

* T1: Customer ID - Customer ID is required
* T2: Product ID - Product ID is required
* T3: Timestamp - View timestamp is required

### Gifts Exchange

* T1: Gift ID - Gift ID is required
* T2: Points - Points must be sufficient for exchange
* T3: Gift ID - Gift must be available in stock
* T4: Customer ID - Customer ID is required

### Pre-order

* T1: Product ID - Product ID is required
* T2: Pre-order Date - Pre-order date is required
* T3: Product ID - Product must be available for pre-order
* T4: Customer ID - Customer ID is required

### Chat

* T1: Message - Message cannot be blank
* T2: Customer ID - Customer ID is required
* T3: Recipient ID - Recipient ID must be valid
* T4: Timestamp - Message timestamp is required

### Order Tracking

* T1: Order ID - Order ID is required
* T2: Tracking Number - Invalid tracking number
* T3: Customer ID - Customer ID is required

### View Orders List

* T1: Customer ID - Customer ID is required
* T2: Date Range - Date range must be valid
* T3: Order Status - Order status filter must be valid

### Update Orders

* T1: Order ID - Order ID is required
* T2: Order Status - Invalid order status
* T3: Update Date - Update date must be valid
* T4: Customer ID - Customer ID is required

### Manage Products

* T1: Product ID - Product ID is required
* T2: Product Name - Product name is required
* T3: Product Price - Price must be a positive number
* T4: Product Description - Product description must not be blank
* T5: Stock Quantity - Stock quantity must be a non-negative number

### Manage Vouchers

* T1: Voucher ID - Voucher ID is required
* T2: Voucher Code - Invalid voucher code format
* T3: Discount Amount - Discount amount must be a positive number
* T4: Expiry Date - Expiry date must be valid
* T5: Minimum Spend - Minimum spend requirement must be met

### Record Orders

* T1: Order ID - Order ID is required
* T2: Order Date - Invalid order date
* T3: Customer ID - Customer ID is required
* T4: Order Amount - Order amount must be a positive number

### Manage Account

* T1: Account ID - Account ID is required
* T2: Account Status - Invalid account status
* T3: Account Type - Account type must be valid
* T4: Username - Username must not be blank
* T5: Password - Password must meet security requirements

### Manage Store

* T1: Store ID - Store ID is required
* T2: Store Name - Store name is required
* T3: Store Address - Store address must be valid
* T4: Store Owner - Store owner ID must be valid
* T5: Store Status - Store status must be valid

### Dashboard

* T1: User ID - User ID is required
* T2: Access Level - Invalid access level
* T3: Dashboard Data - Data must be up-to-date
* T4: Widgets - Widgets must be configured correctly

### Revenue Statistics

* T1: Date Range - Date range is required
* T2: Date Range - Invalid date range
* T3: Metrics - Metrics must be valid
* T4: Filters - Filters must be applied correctly