

Opencart Project SRS

Software Requirements Specification

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User Roles and Responsibilities

Customer Role

Customers in OpenCart have the following responsibilities and permissions:

Account Management

- Register a new account with personal details (First Name, Last Name, Email, Telephone, Password).
- Login and Logout securely.
- Reset password via the "Forgot Password" option.

Shopping Features

- Search for products using the search bar.
- Browse product categories and view product details.
- Add products to the shopping cart and proceed to checkout.
- Add products to the wishlist for future reference.
- Compare multiple products based on features, specifications, and price.

Order Management

- Place an order and select a preferred payment method.
- Track order status from "My Account" section.
- Cancel or return orders based on store policies.

Payment & Checkout

- Select different currency options if enabled.
- Apply discount codes or vouchers during checkout.
- Choose from multiple payment methods (Credit Card, PayPal, Cash on Delivery, etc.).

Communication & Support

- Contact customer support through the provided contact options.
- Receive email notifications regarding orders, promotions, and updates.

Admin Role

Admins in OpenCart have the following responsibilities and permissions:

User Management

- View and manage customer accounts.
- Approve, suspend, or delete customer accounts if necessary.
- Product & Inventory Management

Add, update, or delete products, including images, descriptions, and pricing.

- Manage product categories and assign products accordingly.
- Set stock availability and track inventory levels.
- Order & Payment Processing

View and manage customer orders.

- Process order returns, cancellations, and refunds.
- Configure and manage payment gateway settings.

Marketing & Promotions

- Create and manage discount codes, vouchers, and promotions.
- Set up featured products, bestsellers, and special offers.

Store & Configuration Management

- Modify store settings (name, logo, currency, tax rates, shipping methods).
- Manage different user roles and assign permissions.
- Enable or disable extensions, plugins, and modules.

Reporting & Analytics

- Generate reports on sales, customer activity, and product performance.
- Analyze trends to improve store performance.

1. Scope

Front Page

- **Register**

- Well-organized menu.
- Ability to input "First Name," "Last Name," "E-Mail," "Telephone," "Password," etc. to create a new account.
- Should have a back option.

- **Login and Logout**

- Well-organized menu.
- Ability to choose currency.
- Options for "Contact," "My Account," "Wish List," "Shopping Cart," "Checkout," and "Item."
- Forgot the password link.
- Should have a back option.

- **Login and Logout**

- Well-organized menu.
- Ability to input E-Mail address.
- Instruction text on top.
- Back and continue option.

- **Search**

- Organized Search bar

- **Product Compare**

- Allows comparing specifications, features, and prices of

multiple products.

- Should have back and Show more/Show less options.
- Add to cart and remove options.

- **Your Store Page**

- Currency choice.
- Options for "Contact," "My Account," "Wish List," "Shopping Cart," "Checkout," and "Item."
- Clickable company logo on the top left.
- Search product feature.
- Organized by category.
- Show all features.
- "Show more/Show less" after product description.
- More product options.
- Clickable products.
- Clickable cart sign-on product view.
- "Wish list" and "compare" options.
- Navigation to OpenCart Homepage.
- Functional page numbers and next/previous buttons.
- The price displayed on products.
- Scrollbar on products.

- **Product Detail Page**

- Product image with alternate views.
- Product details: code, availability, price.
- Cart functionality: select quantity, add to cart, wish list, compare.
- Rating/Sharing: rate the product, and share on social media.
- Description and review tabs.

- **Other features**

- Add To Cart
- Wish List
- Shopping Cart
- Currencies
- Checkout page

- My Account Page
- Order History

- Download Page
- Contact Us Page
- Menu Option
- Footer Option
- Category option

Admin Panel

Customers Menu:

- **Filters Page:**
 - 1- Add Filters
 - 2- Delete Filters
 - 3- Filters Checklist
- **Options Page**
 - 1. Add Options
 - 2. Delete Options
 - 3. Options Checklist
 - 4. Edit Options
- **Reviews Page**
 - 1- Add Reviews
 - 2- Delete Reviews
 - 3- Reviews Checklist
 - 4- Edit Reviews
- **Manufacturers Page**
 - 1- Add Manufacturers
 - 2- Delete Manufacturers
 - 3- Manufacturers Checklist
 - 4- Edit Manufacturers
- **Information Page**
 - 1- Add Information
 - 2- Delete Information
 - 3- Information Checklist
 - 4- Edit Information

Sales Menu

- **Orders:**
 - 1- Add Orders
 - 2- Delete Orders
 - 3- Orders Checklist
 - 4- Edit Orders
 - 5- Filter Orders
 - 6- Print Orders Invoice
 - 7- Print Shipping list
- **Recurring Orders**
 - 1- Add Recurring Orders
 - 2- Delete Recurring Orders
 - 3- Recurring Orders Checklist
 - 4- Edit Recurring Orders
 - 5- Filter Recurring Orders
- **Returns**
 - 1- Add Returns
 - 2- Delete Returns
 - 3- Returns Checklist
 - 4- Edit Returns
 - 5- Filter Returns

Sales Menu

- **Customer Groups**
 - 1- Add Customer Groups
 - 2- Delete Customer Groups
 - 3- Customer Groups Checklist
 - 4- Edit Orders
 - 5- Filter Orders
- **Custom Fields**
 - 1- Add Custom Fields
 - 2- Delete Custom Fields
 - 3- Custom Fields Checklist
 - 4- Edit Custom Fields
 - 5- Filter Custom Fields

Open Cart Front SRS

Product Catalog Requirements

- The system must display products with images, descriptions, and prices.
- Products must be categorized into categories and subcategories for easy navigation.
- The system must support filtering by price range, brand, and availability.
- Clicking on a product must navigate to the product details page.
- The system must allow sorting by price (low to high, high to low), newest arrivals, and best sellers.
- Out-of-stock products must be clearly labeled.
- The system must support pagination for long product lists.

Reviews & Ratings Requirements

- Customers must be able to submit reviews for purchased products.
- Reviews must require a minimum character count before submission.
- The system must allow customers to rate products on a scale (e.g., 1-5 stars).
- The system must allow filtering products based on ratings.
- Only verified customers should be able to submit reviews.
- Reviews must be approved by an admin before appearing on the website.
- The system must allow users to sort reviews by date, rating, or helpfulness.

Search & Filters Requirements

- Customers must be able to search for products using keywords.
- Search results must display only relevant products.
- The system must allow filtering by category, brand, price range, and availability.
- Filters must dynamically update based on selected criteria.
- Users must be able to reset filters to default settings.
- The system must support autocomplete search suggestions.

- The system must highlight searched keywords in the results.

Multi-Language Support Requirements

- The system must support multiple languages.
- Customers must be able to switch between available languages.
- Language selection must persist across pages.
- All UI elements, including error messages, must be translated correctly.
- Admins must be able to add and edit translations for product descriptions.
- The system must not mix different languages in a single session.

Multi-Currency Support Requirements

- Customers must be able to switch between available currencies.
- The system must correctly convert prices based on the selected currency.
- Currency selection must persist across pages.
- Prices in different currencies must match real-time exchange rates (if enabled).
- The system must round converted prices correctly to avoid calculation errors.

Custom Fields Support Requirements

- Admins must be able to add custom fields to product pages.
- Custom fields must support different input types (e.g., text, dropdown, checkboxes).
- Required custom fields must be validated before submission.
- Admins must be able to edit and remove custom fields.
- Custom fields should be searchable if configured by the admin.

Promotions & Discounts Requirements

- The system must support applying discount codes at checkout.
- Discounted prices must be correctly calculated and displayed.

- Expired discount codes must not be accepted.
- Minimum order requirements must be enforced for applicable discounts.
- Buy One Get One Free (BOGO) offers must be correctly applied.
- Users must see a confirmation message when a discount is applied.
- Discounts must be reflected in order summaries before payment.
- Admins must be able to set and manage promotional banners.

Shopping Cart & Checkout Requirements

- Customers must be able to add and remove items from the cart.
- The cart must display item names, quantities, prices, and total cost.
- The system must allow users to update item quantities in the cart.
- The cart must automatically update the total when changes are made.
- The checkout process must have a guest checkout option.
- Users must be able to save multiple shipping addresses.
- The system must allow users to apply discount codes during checkout.
- Users must receive an order summary before confirming the purchase.
- The system must send an order confirmation email after successful checkout.

Payment Integration Requirements

- The system must support multiple payment methods (Credit Card, PayPal, Bank Transfer, etc.).
- Payment details must be securely encrypted.
- Users must receive a payment confirmation email after a successful transaction.
- Failed payments must prompt an appropriate error message.
- The system must support refunds and partial refunds.
- The payment process must comply with PCI DSS standards for security.

Shipping & Delivery Requirements

- The system must support multiple shipping methods (Standard, Express, International).
- Shipping costs must be calculated based on weight, location, and shipping method.
- Users must be able to track their orders using a tracking number.

- Estimated delivery dates must be displayed at checkout.
- The system must send shipping confirmation emails with tracking details.

User Account Management Requirements

- Users must be able to create an account using an email and password.
- The system must allow users to reset their password via email verification.
- Users must be able to update their profile information.
- The system must allow users to view order history.
- Users must be able to save and manage multiple addresses.

Security & Performance Requirements

- The system must use HTTPS for secure browsing.
- User passwords must be encrypted and stored securely.
- The system must prevent SQL injection and cross-site scripting (XSS).
- The website must load within 3 seconds for optimal performance.
- The system must handle at least 100,000 concurrent users.

Opencart Admin Panel

Catalog menu in nav menu —> Manufacturers Page

Add Manufacturers:

- **Manufacturers Name** - System must display all available valid options
- **Manufacturers Name** - If no options are available, a "No available options" message should be shown
- **Manufacturers Name** - Special characters are not allowed
- **Manufacturers Name** - Numbers are not allowed
- **Manufacturers Name** - First character cannot have space
- **Manufacturers Name** - Field is required and cannot be blank
- **Stores** - System must display all available valid store options
- **Stores** - If no options are available, a "No available store options" message should be shown
- **Stores** - User must be able to select a valid store option
- **Stores** - Field is required and cannot be blank
- **Sort Order** - System must allow only numerical values
- **Sort Order** - Special characters and letters are not allowed
- **Sort Order** - Field can be left blank (optional)

Edit Manufacturers:

- **Manufacturers Name** - System must display all available valid options
- **Manufacturers Name** - If no options are available, a "No available options" message should be shown
- **Manufacturers Name** - Special characters are not allowed
- **Manufacturers Name** - Numbers are not allowed
- **Manufacturers Name** - First character cannot have space
- **Manufacturers Name** - Field is required and cannot be blank
- **Stores** - System must display all available valid store options
- **Stores** - If no options are available, a "No available store options" message should be shown
- **Stores** - User must be able to select a valid store option
- **Stores** - Field is required and cannot be blank
- **Sort Order** - System must allow only numerical values
- **Sort Order** - Special characters and letters are not allowed
- **Sort Order** - Field can be left blank (optional)

Catalog menu in nav menu —> Informations Page

Add Informations:

Information Title - System must display all available valid options

Information Title - If no options are available, a "No available options" message should be shown

Information Title - Special characters are not allowed

Information Title - Numbers are not allowed

Information Title - First character cannot have space

Information Title - Field is required and cannot be blank

Description - System must accept alphanumeric characters and special characters

Description - Field is required and cannot be blank

Meta Tag Description - System must accept alphanumeric characters and special characters

Meta Tag Description - Field can be left blank (optional)

Meta Tag Keyword - System must accept alphanumeric characters and commas

Meta Tag Keyword - Field can be left blank (optional)

Stores - System must display all available valid store options

Stores - If no options are available, a "No available store options" message should

be shown

Stores - User must be able to select a valid store option

Stores - Field is required and cannot be blank

Sort Order - System must allow only numerical values

Sort Order - Special characters and letters are not allowed

Sort Order - Field can be left blank (optional)

SEO - System must accept only alphanumeric characters, hyphens, and underscores

SEO - Special characters and spaces are not allowed

SEO - Field can be left blank (optional)

Design - System must display all available valid design options

Design - If no options are available, a "No available design options" message should be shown

Design - User must be able to select a valid design option

Design - Field can be left blank (optional)

Catalog menu in nav menu —> Filters Page

Add Filters:

Filter Group Name - System must allow only alphabetic characters and spaces.

Filter Group Name - Special characters should not be allowed.

Filter Group Name - Numbers should not be allowed.

Filter Group Name - The first character cannot be a space.

Filter Group Name - Field is required and cannot be left blank.

Edit Filters:

Filter Group Name - System must allow only alphabetic characters and spaces.

Filter Group Name - Special characters should not be allowed.

Filter Group Name - Numbers should not be allowed.

Filter Group Name - The first character cannot be a space.

Filter Group Name - Field is required and cannot be left blank.

Cataloge menu in nav menu —> Options Page

Add Orders:

- Option Name - System must allow only alphabetic characters and spaces.
- Option Name - Special characters should not be allowed.
- Option Name - Numbers should not be allowed.
- Option Name - The first character cannot be a space.
- Option Name - Field is required and cannot be left blank.
- Option Type - System must display all available valid option types.
- Option Type - If no option types are available, a "No available option types" message should be shown.
- Option Type - User must be able to select any valid option type from the dropdown.
- Option Type - Field is required and cannot be left blank.
- Sort Order - System must allow only numeric values.
- Sort Order - Negative numbers should not be allowed.
- Sort Order - Special characters and alphabets should not be allowed.
- Sort Order - Field is required and cannot be left blank.
- Sort Order - Sorting must be applied in ascending order based on entered values..
- Option Name Value - System must allow only alphabetic characters and spaces.
- Option Name Value - Special characters should not be allowed.
- Option Name Value - Numbers should not be allowed.
- Option Name Value - The first character cannot be a space.
- Option Name Value - Field is required and cannot be left blank.

Edit Orders:

- Option Name - System must allow only alphabetic characters and spaces.
- Option Name - Special characters should not be allowed.
- Option Name - Numbers should not be allowed.
- Option Name - The first character cannot be a space.

- Option Name - Field is required and cannot be left blank.
- Option Type - System must display all available valid option types.
- Option Type - If no option types are available, a "No available option types" message should be shown.
- Option Type - User must be able to select any valid option type from the dropdown.
- Option Type - Field is required and cannot be left blank.
- Sort Order - System must allow only numeric values.
- Sort Order - Negative numbers should not be allowed.
- Sort Order - Special characters and alphabets should not be allowed.
- Sort Order - Field is required and cannot be left blank.
- Sort Order - Sorting must be applied in ascending order based on entered values..
- Option Name Value - System must allow only alphabetic characters and spaces.
- Option Name Value - Special characters should not be allowed.
- Option Name Value - Numbers should not be allowed.
- Option Name Value - The first character cannot be a space.
- Option Name Value - Field is required and cannot be left blank.

Catalog menu in nav menu —> Reviews Page

Add Reviews:

- **Author Name** - System must allow only alphabetic characters and spaces.
- **Author Name** - Special characters should not be allowed.
- **Author Name** - Numbers should not be allowed.
- **Author Name** - The first character cannot be a space.
- **Author Name** - Field is required and cannot be left blank.
- **Author Name (Auto-suggest)** - System must display all available valid author names in the list.
- **Author Name (Auto-suggest)** - If no matching authors are available, a "No matching authors found" message should be shown.
- **Author Name (Auto-suggest)** - User must be able to select any valid author from the list.
- **Product Field** - System must allow selecting only valid product names.
- **Product Field** - Special characters should not be allowed.
- **Product Field** - Numbers should be allowed.

- **Product Field** - The first character cannot be a space.
- **Product Field** - Field is required and cannot be left blank.
- **Product Field (Auto-suggest)** - System must display all available valid product names in the list.
Product Field (Auto-suggest) - If no matching products are available, a "No matching products found" message should be shown
- **Product Field (Auto-suggest)** - User must be able to select any valid product from the list.

Edit Reviews:

- **Author Name** - System must allow only alphabetic characters and spaces.
- **Author Name** - Special characters should not be allowed.
- **Author Name** - Numbers should not be allowed.
- **Author Name** - The first character cannot be a space.
- **Author Name** - Field is required and cannot be left blank.
- **Author Name (Auto-suggest)** - System must display all available valid author names in the list.
- **Author Name (Auto-suggest)** - If no matching authors are available, a "No matching authors found" message should be shown.
- **Author Name (Auto-suggest)** - User must be able to select any valid author from the list.
- **Product Field** - System must allow selecting only valid product names.
- **Product Field** - Special characters should not be allowed.
- **Product Field** - Numbers should be allowed.
- **Product Field** - The first character cannot be a space.
- **Product Field** - Field is required and cannot be left blank.
- **Product Field (Auto-suggest)** - System must display all available valid product names in the list.
Product Field (Auto-suggest) - If no matching products are available, a "No matching products found" message should be shown
- **Product Field (Auto-suggest)** - User must be able to select any valid product from the list.

Sales menu in nav menu —> Orders Page

Add Orders:

- **Store list** - system must display all available valid options.
- **Store list** - if no options are available, a "No available options" message should be shown.
- **Currency list** - system must display all available valid options in [LISTHOLDER].
- **Currency list** - if no options are available, a "No available options" message should be shown.
- **Customer** - Special character are not allowed
- **Customer** - Numbers are not allowed
- **Customer** - First character can not have space
- **Customer** - Field is required and can not be blank
- **IC number** - Special character are not allowed
- **IC number** - Characters and spaces are not allowed
- **IC number** - First character can not have space
- **IC number** - Field is required and can not be blank
- **Company name** - Special character are not allowed
- **Company name** - Numbers are not allowed
- **Company name** - First character can not have space
- **Company name** - Field is required and can not be blank
- **Company Id** - Special character are not allowed
- **Company Id** - Characters and spaces are not allowed
- **Company Id** - First character can not have space
- **Company Id** - Field is required and can not be blank
- **VAT number** - Special character are not allowed
- **VAT number** - Characters and spaces are not allowed
- **VAT number** - First character can not have space
- **VAT number** - Field is required and can not be blank
- **Customer group** - system must display all available valid options.
- **Customer group** - if no options are available, a "No available options" message should be shown.
- **First Name** - Special character are not allowed
- **First Name** - Numbers are not allowed
- **First Name** - First character can not have space
- **First Name** - Field is required and can not be blank
- **Last Name** - Special character are not allowed
- **Last Name** - Numbers are not allowed

- **Last Name** - First character can not have space
- **Last Name** - Field is required and can not be blank
- **Email** - must reject emails containing multiple "@" symbols.
- **Email** - must reject emails containing spaces or special characters except "@", "_", and ".".
- **Email** - must reject emails that start or end with a dot (.) Or consecutive dot characters (e.g., "test..email").
- **Email** - must reject emails that do not contain the "@" symbol.
- **Email** - must reject emails that do not have a top-level domain (e.g., ".com", ".net").
- **Email** - must reject emails missing a domain name (e.g., "user@.com").
- **Email** - must reject email addresses where the first character is a space.
- **Email** - Valid format: "userName_123@domain.com"
- **Telephone number** - must not include letters (A-Z, a-z).
- **Telephone number** - must not contain special characters (@, #, \$, etc.).
- **Telephone number** - must start with 010, 011, 012, 015.
- **Telephone number** - must be exactly 11 digits long.
- **Telephone number** - must accept valid formats: 010XXXXXXXX, 011XXXXXXXX, 012XXXXXXXX, 015XXXXXXXX.

Delete Orders

- **Delete icon** - must be enabled only when at least one item is selected.
- Delete icon when enabled must remove all selected items from the [PAGEHOLDER] page.
- **Delete icon** - must permanently delete the selected items from the system database.
- **Delete icon** - must be disabled when no items are selected.
- **Delete icon** - must have a distinct disabled appearance (e.g., grayed out) when inactive.

Edit Orders

- **Store list** - system must display all available valid options.
- **Store list** - if no options are available, a "No available options" message should be shown.
- **Currency list** - system must display all available valid options in [LISTHOLDER].
- **Currency list** - if no options are available, a "No available options" message should be shown.
- **Customer** - Special character are not allowed

- **Customer** - Numbers are not allowed
- **Customer** - First character can not have space
- **Customer** - Field is required and can not be blank
- **IC number** - Special character are not allowed
- **IC number** - Characters and spaces are not allowed
- **IC number** - First character can not have space
- **IC number** - Field is required and can not be blank
- **Company name** - Special character are not allowed
- **Company name** - Numbers are not allowed
- **Company name** - First character can not have space
- **Company name** - Field is required and can not be blank
- **Company Id** - Special character are not allowed
- **Company Id** - Characters and spaces are not allowed
- **Company Id** - First character can not have space
- **Company Id** - Field is required and can not be blank
- **VAT number** - Special character are not allowed
- **VAT number** - Characters and spaces are not allowed
- **VAT number** - First character can not have space
- **VAT number** - Field is required and can not be blank
- **Customer group** - system must display all available valid options.
- **Customer group** - if no options are available, a "No available options" message should be shown.
- **First Name** - Special character are not allowed
- **First Name** - Numbers are not allowed
- **First Name** - First character can not have space
- **First Name** - Field is required and can not be blank
- **Last Name** - Special character are not allowed
- **Last Name** - Numbers are not allowed
- **Last Name** - First character can not have space
- **Last Name** - Field is required and can not be blank
- **Email** - must reject emails containing multiple "@" symbols.
- **Email** - must reject emails containing spaces or special characters except "@", "_", and ".".
- **Email** - must reject emails that start or end with a dot (.) Or consecutive dot characters (e.g., "test..email").
- **Email** - must reject emails that do not contain the "@" symbol.
- **Email** - must reject emails that do not have a top-level domain (e.g., ".com", ".net").
- **Email** - must reject emails missing a domain name (e.g., "user@.com").
- **Email** - must reject email addresses where the first character is a space.
- **Email** - Valid format: "userName_123@domain.com"

- **Telephone number** - must not include letters (A-Z, a-z).
- **Telephone number** - must not contain special characters (@, #, \$, etc.).
- **Telephone number** - must start with 010, 011, 012, 015.
- **Telephone number** - must be exactly 11 digits long.
- **Telephone number** - must accept valid formats: 010XXXXXXXX, 011XXXXXXXX, 012XXXXXXXX, 015XXXXXXXX.

Sales menu in nav menu —> Recurring Orders Page

Edit Recurring Orders

- **Recurring Id** - Special character are not allowed
- **Recurring Id** - Characters and spaces are not allowed
- **Recurring Id** - First character can not have space
- **Recurring Id** - Field is not required and can be blank
- **Customer** - Special character are not allowed
- **Customer** - Numbers are not allowed
- **Customer** - First character can not have space
- **Customer** - Field is not required and can be blank
- **Order Id** - Special character are not allowed
- **Order Id** - Characters and spaces are not allowed
- **Order Id** - First character can not have space
- **Order Id** - Field is not required and can be blank
- **Status list** - system must display all available valid options
- **Status list** - if no options are available, a "No available options" message should be shown.

Filter Recurring Orders

- **Recurring Id** - Special character are not allowed
- **Recurring Id** - Characters and spaces are not allowed
- **Recurring Id** - First character can not have space
- **Recurring Id** - Field is not required and can be blank
- **Customer** - Special character are not allowed
- **Customer** - Numbers are not allowed
- **Customer** - First character can not have space
- **Customer** - Field is not required and can be blank
- **Order Id** - Special character are not allowed
- **Order Id** - Characters and spaces are not allowed
- **Order Id** - First character can not have space
- **Order Id** - Field is not required and can be blank
- **Status list** - system must display all available valid options
- **Status list** - if no options are available, a "No available options" message should be shown.

Sales menu in nav menu —> Returns Page

Add Returns

- **Customer** - Special character are not allowed
- **Customer** - Numbers are not allowed
- **Customer** - First character can not have space
- **Customer** - Field is not required and can be blank
- **Order Id** - Special character are not allowed
- **Order Id** - Characters and spaces are not allowed
- **Order Id** - First character can not have space
- **Order Id** - Field is not required and can be blank
- **First Name** - Special character are not allowed
- **First Name** - Numbers are not allowed
- **First Name** - First character can not have space
- **First Name** - Field is required and can not be blank
- **Last Name** - Special character are not allowed
- **Last Name** - Numbers are not allowed
- **Last Name** - First character can not have space
- **Last Name** - Field is required and can not be blank
- **Email** - must reject emails containing multiple "@" symbols.

- **Email** - must reject emails containing spaces or special characters except "@", "_", and ".".
- **Email** - must reject emails that start or end with a dot (.) Or consecutive dot characters (e.g., "test..email").
- **Email** - must reject emails that do not contain the "@" symbol.
- **Email** - must reject emails that do not have a top-level domain (e.g., ".com", ".net").
- **Email** - must reject emails missing a domain name (e.g., "user@.com").
- **Email** - must reject email addresses where the first character is a space.
- **Email** - Valid format: "userName_123@domain.com"
- **Telephone number** - must not include letters (A-Z, a-z).
- **Telephone number** - must not contain special characters (@, #, \$, etc.).
- **Telephone number** - must start with 010, 011, 012, 015.
- **Telephone number** - must be exactly 11 digits long.
- **Telephone number** - must accept valid formats: 010XXXXXXXX, 011XXXXXXXX, 012XXXXXXXX, 015XXXXXXXX.
- **Product** - Special character are not allowed
- **Product** - Numbers are not allowed
- **Product** - First character can not have space
- **Product** - Field is not required and can be blank
- **Quantity** - Special character are not allowed
- **Quantity** - Characters and spaces are not allowed
- **Quantity** - First character can not have space
- **Quantity** - Field is not required and can be blank
- **Return Cost** - Special character are not allowed
- **Return Cost** - Characters and spaces are not allowed
- **Return Cost** - First character can not have space
- **Return Cost** - Field is not required and can be blank
- **Product** - Special character are not allowed
- **Product** - Numbers are not allowed
- **Product** - First character can not have space
- **Product** - Field is not required and can be blank
- **Return cost** - system must display all available valid options
- **Return cost** - if no options are available, a "No available options" message should be shown.
- **Return reason list** - system must display all available valid options
- **Return reason list** - if no options are available, a "No available options" message should be shown.
- **Status list** - system must display all available valid options

- **Status list** - if no options are available, a "No available options" message should be shown

Edit Returns

- **Customer** - Special character are not allowed
- **Customer** - Numbers are not allowed
- **Customer** - First character can not have space
- **Customer** - Field is not required and can be blank
- **Order Id** - Special character are not allowed
- **Order Id** - Characters and spaces are not allowed
- **Order Id** - First character can not have space
- **Order Id** - Field is not required and can be blank
- **First Name** - Special character are not allowed
- **First Name** - Numbers are not allowed
- **First Name** - First character can not have space
- **First Name** - Field is required and can not be blank
- **Last Name** - Special character are not allowed
- **Last Name** - Numbers are not allowed
- **Last Name** - First character can not have space
- **Last Name** - Field is required and can not be blank
- **Email** - must reject emails containing multiple "@" symbols.
- **Email** - must reject emails containing spaces or special characters except "@", "_", and ".".
- **Email** - must reject emails that start or end with a dot (.) Or consecutive dot characters (e.g., "test..email").
- **Email** - must reject emails that do not contain the "@" symbol.
- **Email** - must reject emails that do not have a top-level domain (e.g., ".com", ".net").
- **Email** - must reject emails missing a domain name (e.g., "user@.com").
- **Email** - must reject email addresses where the first character is a space.
- **Email** - Valid format: "userName_123@domain.com"
- **Telephone number** - must not include letters (A-Z, a-z).
- **Telephone number** - must not contain special characters (@, #, \$, etc.).
- **Telephone number** - must start with 010, 011, 012, 015.
- **Telephone number** - must be exactly 11 digits long.
- **Telephone number** - must accept valid formats: 010XXXXXXXX, 011XXXXXXXX, 012XXXXXXXX, 015XXXXXXXX.
- **Product** - Special character are not allowed
- **Product** - Numbers are not allowed
- **Product** - First character can not have space

- **Product** - Field is not required and can be blank
- **Quantity** - Special character are not allowed
- **Quantity** - Characters and spaces are not allowed
- **Quantity** - First character can not have space
- **Quantity** - Field is not required and can be blank
- **Return Cost** - Special character are not allowed
- **Return Cost** - Characters and spaces are not allowed
- **Return Cost** - First character can not have space
- **Return Cost** - Field is not required and can be blank
- **Product** - Special character are not allowed
- **Product** - Numbers are not allowed
- **Product** - First character can not have space
- **Product** - Field is not required and can be blank
- **Return cost** - system must display all available valid options
- **Return cost** - if no options are available, a "No available options" message should be shown.
- **Return reason list** - system must display all available valid options
- **Return reason list** - if no options are available, a "No available options" message should be shown.
- **Status list** - system must display all available valid options
- **Status list** - if no options are available, a "No available options" message should be shown.

Filter Returns

- **Returns Id** - Special character are not allowed
- **Returns Id** - Characters and spaces are not allowed
- **Returns Id** - First character can not have space
- **Returns Id** - Field is not required and can be blank
- **Customer** - Special character are not allowed
- **Customer** - Numbers are not allowed
- **Customer** - First character can not have space
- **Customer** - Field is not required and can be blank
- **Order Id** - Special character are not allowed
- **Order Id** - Characters and spaces are not allowed
- **Order Id** - First character can not have space
- **Order Id** - Field is not required and can be blank
- **Status list** - system must display all available valid options

- **Status list** - if no options are available, a "No available options" message should be shown.

Customers menu in nav menu —> Customer groups Page

Add Customer groups

- **Customer Group Name** - Special character are not allowed
- **Customer Group Name** - Numbers are not allowed
- **Customer Group Name** - First character can not have space
- **Customer Group Name** - Field is required and can not be blank
- **Description** - accepts characters, spaces, special characters and numbers
- **Description** - Field isnot required and can be blank

Edit Customer groups

- **Customer Group Name** - Special character are not allowed
- **Customer Group Name** - Numbers are not allowed
- **Customer Group Name** - First character can not have space
- **Customer Group Name** - Field is required and can not be blank
- **Description** - accepts characters, spaces, special characters and numbers
- **Description** - Field isnot required and can be blank

Customers menu in nav menu —> Customer Fields Page

Add Custom fields

- **Customer field Name** - Special character are not allowed
- **Customer field Name** - Numbers are not allowed
- **Customer field Name** - First character can not have space
- **Customer field Name** - Field is required and can not be blank

- **Location list** - system must display all available valid options
- **Location list** - if no options are available, a "No available options" message should be shown.
- **Type list** - system must display all available valid options
- **Typelist** - if no options are available, a "No available options" message should be shown.
- **Status list** - system must display all available valid options
- **Status list** - if no options are available, a "No available options" message should be shown.

Edit Custom fields

- **Customer field Name** - Special character are not allowed
- **Customer field Name** - Numbers are not allowed
- **Customer field Name** - First character can not have space
- **Customer field Name** - Field is required and can not be blank
- **Location list** - system must display all available valid options
- **Location list** - if no options are available, a "No available options" message should be shown.
- **Type list** - system must display all available valid options
- **Typelist** - if no options are available, a "No available options" message should be shown.
- **Status list** - system must display all available valid options
- **Status list** - if no options are available, a "No available options" message should be shown.

Functional Requirements:

Sales menu in nav menu —> Manufacturers Page

Add Manufacturers

- **Add Icon** - The add icon must be available and clickable
- The system must validate all input fields before allowing submission.
- The system must enforce required field completion for submission.
- The system must prevent duplicate item additions based on unique identifiers.
- The system must display appropriate error messages for invalid inputs.
- The system must disable the "Submit" button if required fields are not filled.
- The system must provide a confirmation message after successful submission.
- The system must reset form fields after successful submission.
- The system must support navigation back to the item list page when "Back" or "Cancel" is clicked.

Delete Manufacturers

- The system must prompt a confirmation message before executing the delete action.
- The system must display a success message after successful deletion.
- The system must display an error message if deletion fails due to system issues.

Edit Manufacturers

- The system must fetch and pre-fill the existing data when opening the submission form for editing.
- The system must validate all modifications before allowing them to be saved.
- The system must prevent overwriting existing data with invalid or empty inputs.
- The system must track and detect whether modifications were made before allowing submission.
- The system must maintain data integrity, ensuring that required fields remain filled.
- The system must ensure real-time UI updates, reflecting changes immediately upon saving.
- The system must provide a confirmation message after successfully saving changes.

Sales menu in nav menu —-> Informations Page

Add Informations

- **Add Icon** - The add icon must be available and clickable
- The system must validate all input fields before allowing submission.
- The system must enforce required field completion for submission.
- The system must prevent duplicate item additions based on unique identifiers.
- The system must display appropriate error messages for invalid inputs.
- The system must disable the "Submit" button if required fields are not filled.
- The system must provide a confirmation message after successful submission.
- The system must reset form fields after successful submission.
- The system must support navigation back to the item list page when "Back" or "Cancel" is clicked.

Delete Informations

- The system must prompt a confirmation message before executing the delete action.
- The system must display a success message after successful deletion.
- The system must display an error message if deletion fails due to system issues.

Edit Informations

- The system must fetch and pre-fill the existing data when opening the submission form for editing.
- The system must validate all modifications before allowing them to be saved.
- The system must prevent overwriting existing data with invalid or empty inputs.
- The system must track and detect whether modifications were made before allowing submission.
- The system must maintain data integrity, ensuring that required fields remain filled.
- The system must ensure real-time UI updates, reflecting changes immediately upon saving.
- The system must provide a confirmation message after successfully saving changes.

Sales menu in nav menu —> Orders Page

Add Orders:

- **Add Icon** - The add icon must be available and clickable
- The system must validate all input fields before allowing submission.
- The system must enforce required field completion for submission.
- The system must prevent duplicate item additions based on unique identifiers.
- The system must display appropriate error messages for invalid inputs.
- The system must disable the "Submit" button if required fields are not filled.
- The system must provide a confirmation message after successful submission.
- The system must reset form fields after successful submission.
- The system must support navigation back to the item list page when "Back" or "Cancel" is clicked.

Edit Orders

- The system must fetch and pre-fill the existing data when opening the submission form for editing.
- The system must validate all modifications before allowing them to be saved.
- The system must prevent overwriting existing data with invalid or empty inputs.
- The system must track and detect whether modifications were made before allowing submission.
- The system must maintain data integrity, ensuring that required fields remain filled.
- The system must ensure real-time UI updates, reflecting changes immediately upon saving.
- The system must provide a confirmation message after successfully saving changes.

Delete Orders

- The system must prompt a confirmation message before executing the delete action.
- The system must display a success message after successful deletion.
- The system must display an error message if deletion fails due to system issues.

Print Orders invoice

- The system must generate a printable invoice only when valid items are selected.
- The system must disable the "Print Invoice" button when no invoices are selected.
- The system must dynamically enable the "Print Invoice" button when at least one invoice is selected.
- The print preview must display accurate invoice details

Print Orders Shipping list:

- The system must generate a printable Shipping list only when valid items are selected.
- The system must disable the "Print Shipping list" button when no invoices are selected.
- The system must dynamically enable the "Print Shipping list" button when at least one item is selected.
- The print preview must display accurate Shipping list details

Filter Orders

- You can filter with one item or more
- If the input does not match any of the available data, a "Nit found" message appears

Sales menu in nav menu —> Recurring Orders Page

Add Recurring Orders:

- **Add Icon** - The add icon must be available and clickable
- The system must validate all input fields before allowing submission.
- The system must enforce required field completion for submission.
- The system must prevent duplicate item additions based on unique identifiers.
- The system must display appropriate error messages for invalid inputs.
- The system must disable the "Submit" button if required fields are not filled.
- The system must provide a confirmation message after successful submission.

- The system must reset form fields after successful submission.
- The system must support navigation back to the item list page when "Back" or "Cancel" is clicked.

Delete Recurring Orders

- **Delete icon** - must be enabled only when at least one item is selected.
- Delete icon when enabled must remove all selected items from the [PAGEHOLDER] page.
- **Delete icon** - must permanently delete the selected items from the system database.
- **Delete icon** - must be disabled when no items are selected.
- **Delete icon** - must have a distinct disabled appearance (e.g., grayed out) when inactive.
- **Delete** - The system must prompt a confirmation message before executing the delete action.
- **Delete** - The system must display a success message after successful deletion.
- **Delete** - The system must display an error message if deletion fails due to system issues.

Edit Recurring Orders

- The system must fetch and pre-fill the existing data when opening the submission form for editing.
- The system must validate all modifications before allowing them to be saved.
- The system must prevent overwriting existing data with invalid or empty inputs.
- The system must track and detect whether modifications were made before allowing submission.
- The system must maintain data integrity, ensuring that required fields remain filled.
- The system must ensure real-time UI updates, reflecting changes immediately upon saving.
- The system must provide a confirmation message after successfully saving changes.

Filter Recurring Orders

- You can filter with one item or more
- If the input does not match any of the available data, a "Nit found" message appears

Sales menu in nav menu -----> Returns Page

Add Returns

- **Add Icon** - The add icon must be available and clickable
- The system must validate all input fields before allowing submission.
- The system must enforce required field completion for submission.
- The system must prevent duplicate item additions based on unique identifiers.
- The system must display appropriate error messages for invalid inputs.
- The system must disable the "Submit" button if required fields are not filled.
- The system must provide a confirmation message after successful submission.
- The system must reset form fields after successful submission.
- The system must support navigation back to the item list page when "Back" or "Cancel" is clicked.

Delete Returns

- **Delete icon** - must be enabled only when at least one item is selected.
- Delete icon when enabled must remove all selected items from the [PAGEHOLDER] page.
- **Delete icon** - must permanently delete the selected items from the system database.
- **Delete icon** - must be disabled when no items are selected.
- **Delete icon** - must have a distinct disabled appearance (e.g., grayed out) when inactive.
- **Delete** - The system must prompt a confirmation message before executing the delete action.
- **Delete** - The system must display a success message after successful deletion.
- **Delete** - The system must display an error message if deletion fails due to system issues.

Edit Returns

- The system must fetch and pre-fill the existing data when opening the submission form for editing.
- The system must validate all modifications before allowing them to be saved.
- The system must prevent overwriting existing data with invalid or empty inputs.
- The system must track and detect whether modifications were made before allowing submission.
- The system must maintain data integrity, ensuring that required fields remain filled.
- The system must ensure real-time UI updates, reflecting changes immediately upon saving.
- The system must provide a confirmation message after successfully saving changes.

Filter Returns

- You can filter with one item or more
- If the input does not match any of the available data, a "Nit found" message appears

Customers menu in nav menu -----> Customer groups Page

Add Customer groups

- **Add Icon** - The add icon must be available and clickable
- The system must validate all input fields before allowing submission.
- The system must enforce required field completion for submission.
- The system must prevent duplicate item additions based on unique identifiers.
- The system must display appropriate error messages for invalid inputs.
- The system must disable the "Submit" button if required fields are not filled.
- The system must provide a confirmation message after successful submission.
- The system must reset form fields after successful submission.
- The system must support navigation back to the item list page when "Back" or "Cancel" is clicked.

Delete Customer groups

- **Delete icon** - must be enabled only when at least one item is selected.

- Delete icon when enabled must remove all selected items from the [PAGEHOLDER] page.
- **Delete icon** - must permanently delete the selected items from the system database.
- **Delete icon** - must be disabled when no items are selected.
- **Delete icon** - must have a distinct disabled appearance (e.g., grayed out) when inactive.
- **Delete** - The system must prompt a confirmation message before executing the delete action.
- **Delete** - The system must display a success message after successful deletion.
- **Delete** - The system must display an error message if deletion fails due to system issues.

Edit Customer groups

- The system must fetch and pre-fill the existing data when opening the submission form for editing.
- The system must validate all modifications before allowing them to be saved.
- The system must prevent overwriting existing data with invalid or empty inputs.
- The system must track and detect whether modifications were made before allowing submission.
- The system must maintain data integrity, ensuring that required fields remain filled.
- The system must ensure real-time UI updates, reflecting changes immediately upon saving.
- The system must provide a confirmation message after successfully saving changes.

Customers menu in nav menu -----> Custom Fields Page

Add Custom Fields

- **Add Icon** - The add icon must be available and clickable
- The system must validate all input fields before allowing submission.
- The system must enforce required field completion for submission.
- The system must prevent duplicate item additions based on unique identifiers.
- The system must display appropriate error messages for invalid inputs.
- The system must disable the "Submit" button if required fields are not filled.

- The system must provide a confirmation message after successful submission.
- The system must reset form fields after successful submission.
- The system must support navigation back to the item list page when "Back" or "Cancel" is clicked.

Delete Custom Fields

- **Delete icon** - must be enabled only when at least one item is selected.
- Delete icon when enabled must remove all selected items from the [PAGEHOLDER] page.
- **Delete icon** - must permanently delete the selected items from the system database.
- **Delete icon** - must be disabled when no items are selected.
- **Delete icon** - must have a distinct disabled appearance (e.g., grayed out) when inactive.
- **Delete** - The system must prompt a confirmation message before executing the delete action.
- **Delete** - The system must display a success message after successful deletion.
- **Delete** - The system must display an error message if deletion fails due to system issues.

Edit Custom Fields

- The system must fetch and pre-fill the existing data when opening the submission form for editing.
- The system must validate all modifications before allowing them to be saved.
- The system must prevent overwriting existing data with invalid or empty inputs.
- The system must track and detect whether modifications were made before allowing submission.
- The system must maintain data integrity, ensuring that required fields remain filled.
- The system must ensure real-time UI updates, reflecting changes immediately upon saving.
- The system must provide a confirmation message after successfully saving changes.

Filter Custom Fields

- You can filter with one item or more
- If the input does not match any of the available data, a "Nit found" message appears

Customers menu in nav menu -----> Filters Page

Add Filters

- **Add Icon** - The add icon must be available and clickable
- The system must validate all input fields before allowing submission.
- The system must enforce required field completion for submission.
- The system must prevent duplicate item additions based on unique identifiers.
- The system must display appropriate error messages for invalid inputs.
- The system must disable the "Submit" button if required fields are not filled.
- The system must provide a confirmation message after successful submission.
- The system must reset form fields after successful submission.
- The system must support navigation back to the item list page when "Back" or "Cancel" is clicked.

Delete Filters

- **Delete icon** - must be enabled only when at least one item is selected.
- Delete icon when enabled must remove all selected items from the [PAGEHOLDER] page.
- **Delete icon** - must permanently delete the selected items from the system database.
- **Delete icon** - must be disabled when no items are selected.
- **Delete icon** - must have a distinct disabled appearance (e.g., grayed out) when inactive.
- **Delete** - The system must prompt a confirmation message before executing the delete action.
- **Delete** - The system must display a success message after successful deletion.
- **Delete** - The system must display an error message if deletion fails due to system issues.

Edit Filters

- The system must fetch and pre-fill the existing data when opening the submission form for editing.
- The system must validate all modifications before allowing them to be saved.
- The system must prevent overwriting existing data with invalid or empty inputs.
- The system must track and detect whether modifications were made before allowing submission.
- The system must maintain data integrity, ensuring that required fields remain filled.
- The system must ensure real-time UI updates, reflecting changes immediately upon saving.
- The system must provide a confirmation message after successfully saving changes.

Customers menu in nav menu -----> Options Page

Add Options

- **Add Icon** - The add icon must be available and clickable
- The system must validate all input fields before allowing submission.
- The system must enforce required field completion for submission.
- The system must prevent duplicate item additions based on unique identifiers.
- The system must display appropriate error messages for invalid inputs.
- The system must disable the "Submit" button if required fields are not filled.
- The system must provide a confirmation message after successful submission.
- The system must reset form fields after successful submission.
- The system must support navigation back to the item list page when "Back" or "Cancel" is clicked.

Delete Options

- **Delete icon** - must be enabled only when at least one item is selected.
- Delete icon when enabled must remove all selected items from the [PAGEHOLDER] page.
- **Delete icon** - must permanently delete the selected items from the system database.
- **Delete icon** - must be disabled when no items are selected.

- **Delete icon** - must have a distinct disabled appearance (e.g., grayed out) when inactive.
- **Delete** - The system must prompt a confirmation message before executing the delete action.
- **Delete** - The system must display a success message after successful deletion.
- **Delete** - The system must display an error message if deletion fails due to system issues.

Edit Options

- The system must fetch and pre-fill the existing data when opening the submission form for editing.
- The system must validate all modifications before allowing them to be saved.
- The system must prevent overwriting existing data with invalid or empty inputs.
- The system must track and detect whether modifications were made before allowing submission.
- The system must maintain data integrity, ensuring that required fields remain filled.
- The system must ensure real-time UI updates, reflecting changes immediately upon saving.
- The system must provide a confirmation message after successfully saving changes.

Customers menu in nav menu -----> Reviews Page

Add Reviews

- **Add Icon** - The add icon must be available and clickable
- The system must validate all input fields before allowing submission.
- The system must enforce required field completion for submission.
- The system must prevent duplicate item additions based on unique identifiers.
- The system must display appropriate error messages for invalid inputs.
- The system must disable the "Submit" button if required fields are not filled.
- The system must provide a confirmation message after successful submission.

- The system must reset form fields after successful submission.
- The system must support navigation back to the item list page when "Back" or "Cancel" is clicked.

Delete Reviews

- **Delete icon** - must be enabled only when at least one item is selected.
- Delete icon when enabled must remove all selected items from the [PAGEHOLDER] page.
- **Delete icon** - must permanently delete the selected items from the system database.
- **Delete icon** - must be disabled when no items are selected.
- **Delete icon** - must have a distinct disabled appearance (e.g., grayed out) when inactive.
- **Delete** - The system must prompt a confirmation message before executing the delete action.
- **Delete** - The system must display a success message after successful deletion.
- **Delete** - The system must display an error message if deletion fails due to system issues.

Edit Reviews

- The system must fetch and pre-fill the existing data when opening the submission form for editing.
- The system must validate all modifications before allowing them to be saved.
- The system must prevent overwriting existing data with invalid or empty inputs.
- The system must track and detect whether modifications were made before allowing submission.
- The system must maintain data integrity, ensuring that required fields remain filled.
- The system must ensure real-time UI updates, reflecting changes immediately upon saving.
- The system must provide a confirmation message after successfully saving changes.