

Create SRS document with necessary diagrams to understand below business requirements.

MODULES

We need three modules under this application to be addressed

1. Product Listing: We will place an excel sheet in the webserver [MS sequel server database] the application you create should be able to intake this excel and attributes of products to display as a library to the client.
2. BULK Add to Cart: Multiple selections of products should be possible to be added to cart each having its own attributes of color, sizes, delivery dates and quantities, these values will be dynamic for all offerings. The product selection will allow users to assign quantity per article by size, color, ratio [s,m,l,xl] and combinations of the same.
3. Document Upload and retrieval at client side: we wish to upload invoices, packing lists and logistics documents for download at client side.

FUNCTIONAL REQUIREMENTS

PRODUCT LISTING

Under this section all the products will get listed under the app and the user/customer can see the listed products. Listed products will be configurable. Listing will include the following details.

1. Images & Descriptions
2. Quantity [will have MOQ minimum order quantity restrictions for selection] and quantity can be assigned per size, per color or both.
3. Video if any
4. Price and MOQ
5. Sizes & dimensions
6. Weight & CBM details
7. Color and materials / composition

ADD TO CART

1. Under this section customers can see all the listed products with all the attributes. Customers can MAKE MULTIPLE SELECTIONS of products and add them to cart in ONE GO. These products will have unique quantities and attributes.
2. After placing the order, customers can download an excel of their orders which can be uploaded to the customer's CRM/ERP for the records.
3. The orders will be transported back to us via an excel that can be uploaded in our stand-alone LAN based order processing system.

Software Requirement Specification (SRS)

eCommerce application

Version 1.0
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Document Revision

Version	Primary author	Description of version	Date completed
1.0	Neel Revawala	Creating initial draft of SRS as description for the final product.	March 8, 2022

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1. Introduction
 - 1.1 Purpose

1. Introduction

1.1 Purpose

In this document, we will describe system functionalities and requirements for yet unnamed eCommerce application that will be capable of giving the users all the essential details for ordering products/services. Nowadays, every up-to-date retailer offers precise information about the products on the Internet. This way, the business is expanded due to the number of available technologies which allow creating e-commerce application meeting the requirements of every customer.

1.2 Scope

Unnamed eCommerce application that helps users to purchase products which have color, size and ratio attributes. After choosing a product along with its variant, the eCommerce application allows you to place bulk orders and customers will get an excel file of their orders after making an order, which they can then upload to their CRM/ERP for records.

The user preferences will be determined based on the available product information such as images, product description, reasonable rate, minimum order quantity, sizes, dimensions, weight, multiple quantity calculation, color and materials/composition etc. The users shall be able to choose the product color, size and ratio variant, be able to enter the quantities in add to cart section and after order, customers have an option to download the excel file of their order for information purpose.

The E-Commerce System will allow any user to create an account to become a customer. The system will allow customers to browse, search, select, and add products to a shopping cart. The chosen product will show under their shopping cart, check out the product in the shopping cart and decrement the stock that the inventory the system maintains. The backend system also allows a manager to manage the inventory with full create, retrieve, update and delete functionality with regards to products in the system.

1.3 Definitions, acronyms, and abbreviations

Product	An instance of an Item that has additional attributes: Size, Color, Dimensions, Weight etc
Button	A user interface element that allows a User to click and inform the system to take an action.
Color Swatches	A user interface element that allows a User to inform the system that he/she selected a particular item.
Checkout	The process a Customer goes through to purchase an Item.

Customer	A person that is a user of the system but has created an account.
Inventory	An object that holds items available for purchase by the Customer.
Item	An individual entity in the inventory which has several descriptive Attributes: color, sizes, delivery dates and quantities.
Manager	A single person that has the ability to create, retrieve, update and delete items in the store. This person cannot simultaneously act as a Customer and Manager.
Session	The time which a User is actively using the system.
Shopping Cart	An object that lists a Customer's selected Items and gives them an option to check out.
Stock	The quantity of any particular item the inventory has hand.
Transaction	The information related to a customer's purchase that is logged.
User	The person who operate the software product.

1.4 Organization

This Software Requirements Specification document is divided into multiple subsections. The first section includes explanations of the Purpose, Scope and Organization of the document.

- The first section also handles the description of project- specific words, acronyms and abbreviations that will be used in the document.
- The second section of the document is separated into the following five different sections, each detailing specific details of system uses and their corresponding actions: Product Perspective, Product Functions, User Characteristics, Constraints, Assumptions and Dependencies, Apportioning of Requirements.
- The third section is an enumerated listing of all of the requirements described for this system.
- The fourth section encompasses all of the Use-case, Sequence, State and Class diagrams that model the system.
- In the fifth section there exists a Prototype of the system along with a sample scenario that graphically describes the use of the system.
- The sixth section contains a listing of all related reference materials used in this document.
- The seventh and final subsection is dedicated to providing a point of contact for any viewer of this document.

2. Overall Description

This section includes details about what is and is not expected of the eCommerce system in addition to which cases are intentionally unsupported and assumptions that will be used in the creation of the eCommerce system.

2.1 Product Perspective

Unnamed eCommerce application is an online eCommerce application which supports a number of functions for both the consumer and store's management.

The application will be usable for common users and as such must work correctly in browsers such as google chrome, safari, mozilla firefox and internet explorer. There are no hardware or software requirements beyond these including, but not limited to, memory or specific software packages that need to be utilized nor software packages that need not be utilized.

2.2 Product Functions

Unnamed eCommerce application will provide a number of functions; each is listed below.

1. Maintain data associated with the inventory.
 - 1.1 The inventory keeps track of the stock/quantity of each product.
2. Maintain records for many customers
 - 2.1 A customer has a username (unique across all users), password (no restrictions), email address (no restrictions), and postal address (unverified.)
 - 2.2 Anyone may sign up for a customer account.
3. Can view listing of available products along with its attributes.
 - 3.1 Product has multiple selections and is possible to add multi attributes products to cart.
 - 3.2 Each product list will have its own attributes of color, sizes, delivery dates and quantities.
 - 3.3 The product selection will assign quantity per article by size, color, ratio [s,m,l,xl] and combinations of the same.
 - 3.4 After placing an order, customers are able to download an excel of their order and they can upload it to their local/global CRM/ERP system for the records.
4. Allow customers and managers to log in and out of the system.
 - 4.1 Users (both customers and the manager) will be logged out if inactive for 30 minutes.
5. Shopping cart
 - 5.1 Users are able to add one or more products with multi attributes to the shopping cart.
 - 5.2 Each product will have unique quantity and attributes.
6. Checkout

6.1 Checkout is only available to logged-in customers. A user that is not logged in as a customer is given a chance to log in.

6.2 Log/record the transaction

7. Allow store managers to specify a stop-order for a product.

7.1 Each product has its own stop-order status – either on or off.

7.2 Allow managers to update stock quantities.

7.3 Allow managers to change any product price.

7.4 Allow managers to view transaction logs.

7.5 Allow managers to upload invoices, packing lists and logistics documents.

2.3 User Characteristics

The eCommerce user is simply anyone that has access to the Internet and a web browser on the computer. It is assumed that the user is familiar enough with a computer to operate the browser, keyboard and mouse and is capable of browsing to, from and within simple websites.

2.4 Constraints

As stated by the customer, security is not a concern for this system. The database may store passwords in plain text and there doesn't need to be a password recovery feature nor lockout after numerous invalid login attempts. As such, the system may not work correctly in cases when security is a concern. These cases include those listed above in addition to lack of an encrypted connection when sending credit card information and forcing users to use "strong" passwords. A strong password is a password that meets a number of conditions that are set in place so that the user's passwords cannot be easily guessed by an attacker. Generally, these rules include ensuring that the password contains a sufficient number of characters and contains not only lowercase letters but also capitals, numbers, and in some cases, symbols.

2.5 Assumptions and Dependencies

Client:

We have assumed that the user is capable of operating these system's basic functions including but not limited to being able to power on the system, login and open either Chrome, Safari, Mozilla Firefox or Internet Explorer and navigate the browser to the address of application/website.

Provider:

We have assumed that the eCommerce application will be running on a properly working web server and database system with an Internet connection that allows this system to perform all communications with clients.

Assumptions:

- There is no need for anyone to be able to order more than a single copy of a product(or any item) in a single transaction.
- The manager account's username and password may be hard coded.
- The manager cannot be a customer.
- Any user can edit their account information.

3 Specific Requirements

1. Restrictions

1.1 User Side

1.2 Browser (Chrome, Safari, Mozilla Firefox or Internet Explorer)

1.3 System Side

1.4 Software (Web-based application & Database information storage system)

2. Data Structure

2.1. Book has these attributes

2.1.1. Unique ID (auto-increment starting at 1)

2.1.2. Title

2.1.3. Author

2.1.4. Price

2.1.5. Reorder Threshold

2.1.6. Stop-order Boolean value

2.1.7. Stock

2.2. Customer has these attributes

2.2.1. Unique Username

2.2.2. Password

2.2.3. Name

2.2.4. Email Address

2.2.5. Postal Address

2.2.6. Member/Not Member Boolean value

2.3. Manager has these attributes

2.3.1. Username

2.3.2. Password

2.3.3. Email address

2.4. Order log entries have these attributes:

2.4.1. Unique ID (auto generated)