

# E-Commerce Site

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# 1 Introduction

## 1.1 Purpose

The purpose of this document is to describe the requirements for the E-Commerce Site(ECS). The intended audience includes all stakeholders in the potential system. These include the following: Administrator, developers, seller and customers. This ECS e platform with a centralized product catalog, streamlined order management, and accessible product information.

Developers should consult this document and its revisions as the only source of requirements for the project. They should not consider any requirements statements, written or verbal as valid until they appear in this document or its revision.

## 1.2 Scope

The proposed software product is the E-Commerce site(ECS). The system, a web application will be used to cater to day-to-day grocery needs. It is intended to act as a virtual supermarket, providing a hassle-free shopping experience to its customers, doorstep delivery of the products and Analysis tools for better profits. Requirements statements in this document are both functional and non-functional.

## 1.3 Definitions, Acronyms, and Abbreviations

ECS	E-Commerce Site
HTTP	Hyper Text Transfer Protocol
HTTPS	Hypertext Transfer Protocol Secure
SRS	Software Requirements Specification
Web Based Application	An application that runs on the internet.
Administrator	A person responsible for managing the site and all the activities associated with it.
Customers	People who will buy products from the site
Visitors	People who just occasionally visit the site without the intention of buying anything

## 1.4 References

1. Software Engineering by Dr. Rajib Mall
2. Demo SRS of Hospital Management System provided by Jaydeep Pati Sir

## **2 Overall Description**

### **2.1 Product Perspective**

The ECS is a web based product, which will be used by many users such as the seller and the customer. ECS should be user friendly, interactive and reliable software for the above purpose. It should run on laptop, mobile and tablet.

### **2.2 User Characteristics**

#### **2.2.1 Administrator**

The administrator is responsible for following:

1. Maintain all the databases associated with the site like customer information, product and stock management, order shipment, delivery, payment collection etc.
2. See different analyses of different products for increasing profitability.

#### **2.2.2 Customers/Visitors**

Functionalities of the customers/visitors include:

1. Browsing through the site, choosing products and placing them in a virtual shopping cart.
2. To proceed with the purchase, the customer is prompted to login/sign up.
3. Also, the customer can modify personal profile information stated by application.
4. The customer can also view the status of any previous orders and cancel any order that has not been shipped yet.

### **2.3 General Constraints**

1. Limited to HTTP/HTTPS
2. No multilingual support.
3. If the shopping cart value is below Rs. 500, shipping charges will be applicable.

### **2.4 Operating Environment**

The ECS is a website that shall operate in all Browsers and all the processors that support Internet Browsing.

### **2.5 Assumptions and Dependencies**

1. Users of the software are familiar with shopping terminologies like shopping cart/check out/transaction/shipping.
2. The customers have computers with a browser and are familiar with Internet.

## **3 Specific Requirement**

### **3.1 External Interface Requirement**

External Interface requirements refers to needs of this software's front end to work efficiently, the requirements are further classified into certain topics, which are as:

#### **3.1.1 User Interface**

For the efficient working of the User Interface, i.e. the Front End of the system, the OS must be having at least Internet Explorer 8 installed. To log into the website.

#### **3.1.2 Hardware Interface**

For the hardware requirements, the SRS specifies the logical characteristics of each interface between the software product and the hardware components. It specifies the hardware requirements like memory restriction, cache size, processor, RAM etc. which are required for software to run

#### **3.1.3 Software Interface**

1. For Hosting: Any Windows or Linux Operating System and Visual Studio Code for development. A working internet connection is mandatory.
2. For Using: Any type of Operating System with at Least Internet Explorer installed and having a minimum of 512 kbps working internet compulsorily.

#### **3.1.4 Communication Interfaces**

This e-commerce website provides users with a streamlined process to raise queries and submit feedback. Users can easily record complaints, seek assistance, and share their feedback using dedicated query submission forms. The website employs STRIPE for payment processing and relies on POSTMAN for user sign-up, ensuring a straightforward and efficient user experience.

### **3.2 Functional Requirements**

#### **3.2.1 Registration**

New users can register themselves on the online website with their credentials to log in. Already registered customers can directly log in for further use.

#### **3.2.2 Cart**

Users can browse their cart to view the product list as well as add or delete products to the cart. The cart will be used to keep track of user's product choices.

### **3.2.3 Login**

Users can log in to the website by entering their credentials.

### **3.2.4 Transaction collection**

Store all the data about various transaction done by various user into transaction collection.

### **3.2.5 Managing product**

Admin can Add/Edit or delete products by managing his inventory.

### **3.2.6 Managing Account**

User can change their profile detail on the platform.

### **3.2.7 Analysis of Products**

Administrator can analysis various products which are been seen & sold more.

The user can log in, add or remove items to the car and register as well as pay. Admin can have privileged login and they can change or modify the catalogueas well as maintain user data. After adding items to the cart they can make an order. The orders are stored in an ordered database. The orders are processed and items from the warehouse are delivered to the customer by the shipping agent.

## **3.3 Logical Database Requirement**

1. Profile: Database of all the users accessing the system that includes their information like email id, password, phone number and other details
2. Cart: Contains the products that the customer is planning topurchase. Entities can be added to or removed from the cart.
3. Transaction: Payment information of all the customers.
4. Product Database: The database will contain information regarding product availability, stock etc.

## **3.4 Design Constraint**

The software is a web-based application

## **3.5 Non-Functional Requirement**

### **3.5.1 Security**

Only the authorized user to edit details in the profile and item tables.No one can enter the system without a username and password.

1. Administrator Identification (Login ID): The system requires the administrator to identify himself /herself.
2. User Identification (Login ID): The system requires the user to register to purchasethe book.

3. Modification: Any modification (insert, delete, update) for the Database shall be synchronized and done only by the administrator.
4. The administrator shall be able to view and modify all information associated with the system.
5. The system will have different users and every user has access constraints.
6. Normal Users/Viewers can only read information but cannot edit/modify anything.

### 3.5.2 Reliability

The system is thoroughly tested at the time of delivery so that computational errors are minimized.

### 3.5.3 Safety Requirements

1. Except visitors all other users of the software shall have Login ID and password.
2. Personal information of all the customers will be kept confidential.

## 4 Conclusion

Table 1: E-Commerce Site

Serial No.	Role	Responsibility
1.	Administrator	Maintenance of database, add& analysis product
2.	Customer	Buy products from e-commerce site
3.	Visitor	Surfs through the e-commerce site