**Software Requirements**

**Specification**

**For**

**Online Shopping System**

**Version 1.0 approved**

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1. **Introduction**

## Purpose

The aim of this document is to gather and analyze and give an in-depth insight of the complete **Online Shopping software system** by defining the problem statement in detail. The project aims to develop a web-based application to improve the service to the customers and merchant which in turn increases the sales and profit in "online shopping". The detailed requirements of the **Online Shopping System** are provided in this document.

## Software Scope

This system allows the customers’ to maintain their cart by adding or removing the product. It allows online sales, distribution and marketing of goods.

Purchasing and selling products and services over the internet without the need of going physically to the market is what online shopping all about. Online shopping is just like a retail store shopping that we do by going to the market, but it is done through the internet. Online shopping has made shopping painless and added more fun. Online stores offer product description, pictures, comparisons, price and much more. Few examples of these are Amazon.com, ebay.com and the benefits of online shopping is that by having direct access to consumer, the online stores can offer products that cater to the needs of consumer, cookies can be used for tracking the customer selection over the internet or what is of their interest when they visit the site again. Online shopping makes use of digital technology for managing the flow of information, products, and payment between consumer, site owners and suppliers. Online shopping can be either B2B (business to business) or B2C (business to consumer)  
  
Shopping cart is one of the important facility provided in online shopping, this lets customer to browse different goods and services and once they select an item to purchase they can place the item in shopping cart, and continue browsing till the final selection. Customers can even remove the items from shopping cart that were selected earlier before they place the final order. It reminds us of shopping basket that we carry in department.

**1.3 References**

• Github.com

1. **Overall Description**

## Product Perspective

The online shopping system should provide the facility of ‘Buying’ of items. There is no credit card payment. Payment is assumed to be by ‘Cash on Delivery’.

This product aimed towards people who wish to save time and energy by not going to the shop instead ordering for products sitting at home. Also some products may not be available in the store a person visits; the proposed system is a solution to carry out buying/selling products online.

## Product Functions

* Access to the online shopping system for the administration and the customer is provided with individual login.
* Username will be individual customer id and each set their own password.
* Only the administer can add or update the database containing the products.
* Customer can only view the item details and order items that they choose to buy.

The system allows the user to buy/sell products online.

## User and Owner characteristics

* + - Administrators: Administrators are the ones who adds or administers the products.
    - End Users/Customers: The end user will be the one who visits the website and buys products online from the ones added by the administrator.

## Operating Environment

### Hardware Requirements

A PC with proper speed and memory.

### Software Requirements

Front End: HTML (Hypertext Markup Language), JavaScript, CSS Back End: SQL Database

* 1. **Design and Implementable Constraints**
     + The main constraint here would be the checking the genuineness of the buyer, which is not always possible. There can be security risks involved.
     + The developed system should run under any platform (Unix, Linux, Mac, Windows etc..) that contains a web browser which supports PHP,, JavaScript, Bootstrap and SQL database.
     + MySQL should be available in the local host.
     + The website is not published on the internet. It is run on the local host itself.
     + Real life credit card verification and banking system is not implemented.

**Advantage of customer and sellers**

During lockdown, people were obligated to stay indoors. During that time,

Consumers get the

Essential supplies at their doorsteps because of e-commerce websites.

* Seller benefits
* No Pressure
* No Crowds
* Save Time
* Save Money
* Reviews of product
* Customer Benefits
* Multiple varieties
* We can send gifts easily
* Return Easily
* Save money
* Save time
* Online tracking
* **DISADVANTAGE OF ONLINE SHOPPING**
* Risk of Fraud
* Less community contact
* Lack of touching with items
* Lack of shopping experience
* Delay in delivery

**Acceptance Criteria:-**

The website shall be tested using automated tests and manual tests. The website shall meet all the

Functional and non-functional requirements specified in this document. The website shall be

Approved by the owner before deployment.

That's the end of the professional SRS for a portfolio website using HTML, CSS, and JavaScript.

1. **External Interface Requirements**

## User Interfaces

Each part of the user interface intends to be as user friendly as possible. The fonts and buttons used will be intended to be very fast and easy to load on web pages. The pages will be kept light in space so that it won’t take a long time for the page to load.

The starting page will be the home page of the store. All the products available are displayed. An ‘Add to Cart’ button is available which will add the product by the specified quantity given in the text box to the cart only if the user is logged in to his/her account.

A logged in user can also view the items in the cart and buy them. There are pages which displays the details accordingly.

## Software Interfaces

The following are needed requirements.

Operating System: UNIX, Linux, Windows etc. Development tool: HTML, JavaScript, CSS

Application: Online Shopping

Data Base: MySQL Database Server

* 1. **Communication Interfaces**

HTML use to make structure and CSS make attractive.

JavaScript is a scripting language that enables you to create dynamically updating content, control multimedia, animate images, and pretty much everything else.

1. **System Features**

## Register and Log in

**Description and Priority**

This features creates an account for a new user in the system. For a user to be able to buy any item he/she must have an account and must be logged into it. This feature enlists the user details in the database. This is an important feature so it has high priority.

**Stimulus/Response Sequences**

Customer first clicks on the button or link to initiate registration process. The system then prompts the customer to fill out his/her first name, last name, shipping address, email address, and their password. Customer enters the fields. System validates the customer's information and creates a new account for the Customer.

Once a Customer registers he/she clicks on the log in button to initiate the login process. The system prompts the customer for his/her email and password and verifies the information. After verification the system displays account home page to the Customer.

## Add to Cart and View Cart

**Description and Priority**

This feature enables for a user to browse through different products in the home page and add any product to the cart. The user can also specify the quantity he/she wants to add to the cart.

On ‘View Cart’ the user must be able to see all the items in his/her cart.

**Stimulus/Response Sequences**

If enough quantity is not available then a message informing the same must be displayed else the item is added to the cart of the user.

**Functional Requirements**

REQ-1: A button for adding to cart.

REQ-2: A button for viewing items in cart.

REQ-3: A table in the database must be created having all the product available and each product’s details must be present.

REQ-4: A table for items added to cart must also be available

## Confirm Order

**Description and Priority**

This feature confirms the order placed by the customer i.e now the customer has brought the product. Card payment is not available.

**Stimulus/Response Sequences**

Customer clicks the button or link to initiate the confirmation process. Customer confirms the order. System stores order confirmation and order details and prints the bill.

**Functional Requirements**

REQ-1: A template/window dealing with the items ordered must be created.

REQ-2: The table dealing with the products must be updated i.e the quantity of the product bought must be decreased by the quantity bought once billing is done. REQ-3: A table dealing with all the orders by different customers must be maintained.

## Add and Update Products

**Description and Priority**

This feature is available only for the administrator. Only the administrator can add products and update details of the product in the database.

**Stimulus/Response Sequences**

Administrator clicks the button to initiate Add Product process. The system prompts the administrator to fill out product details. System validates the new product information and adds it to the database.

Administrator clicks the button to initiate Update Product process. The system prompts the administrator to fill out product ID. The corresponding product details are displayed. The admin can update any value except the ID of the product. System validates the new product information and update it in the database.

**Functional Requirements**

REQ-1: A separate log in for the administrator must be created. REQ-2: An administrator cannot buy a product.

## View Order Details

*1*. Description and Priority

This feature is available only for the administrator. Only the administrator can view the order details of all users.

2. Stimulus/Response Sequences

Administrator clicks the button to initiate View Order Table process. Details of each customer and his/her order details are printed.

1. **Other Nonfunctional Requirements**

## Performance Requirements

Maximum possible quick response to the orders is required, also should provide fast updation of records. The changes if any made should be reflected automatically in the next screens.

In order to maintain an acceptable speed at maximum number of uploads allowed from a particular customer as any number of users can access to the system at any time. Also the connections to the servers will be based on the attributes of the user like his location and server will be working 24X7 times.

* 1. **Safety Requirements**

The application is password protected and also any updation of new product entries and order processing is done by only privileged users.

## Software Quality Attributes

The necessary qualities of software products are

1 Security:

The application is password protected and also any updation of new product entries and order processing is done by only privileged users.

2. Maintainability:

The application is to be designed so that it is easily maintained. Also it should allow incorporating new requirements in any module of system.

3. Reliability:

The application will be able to handle two orders. When a user confirms his/her order the database will be updated immediately and the next user will not face problems in ordering.

4. Portability

The application will be easily portable on any window based system.

# 

# Appendix A: Glossary

# HTML Hyper Text Mark of Language

# SQL: Structured Query Language

# GUI: Graphical User Interface

SRS: Software Requirements Specification

CSS: Cascading Style Sheet

**HARDWARE SPECIFICATION**

Processor: Intel Core i3

RAM: 4GB

Hard Disk: 512 SSD