Software Requirements Specification for Online Shopping Management System

Version 1.0 approved

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Table of Contents

Table of Contents [ii](#__RefHeading___Toc441230970)

Revision History [ii](#__RefHeading___Toc441230971)

1. Introduction [1](#__RefHeading___Toc441230972)

1.1 Purpose [1](#__RefHeading___Toc441230973)

1.2 Product Scope [1](#__RefHeading___Toc441230976)

1.3 References [1](#__RefHeading___Toc441230977)

2. Overall Description 1

2.1 Product Perspective 1

2.2 Product Functions 1

2.3 User Classes and Characteristics 2

2.4 Assumptions and Dependencies 2

3. External Interface Requirements [3](#__RefHeading___Toc441230986)

3.1 User Interfaces [3](#__RefHeading___Toc441230987)

3.2 Hardware Interfaces [3](#__RefHeading___Toc441230988)

3.3 Software Interfaces 4

3.4 Communications Interfaces [4](#__RefHeading___Toc441230990)

4. System Features [4](#__RefHeading___Toc441230991)

4.1 System Feature 1 5

5. Other Nonfunctional Requirements 6

5.1 Performance Requirements 6

5.2 Safety Requirements 6

5.3 Security Requirements 6

# Introduction

## Purpose

There are a variety of purposes that a website can serve, but most of them can be traced back to one common goal: generating a profit. The Purpose of choosing our online shopping website is you get a wide variety of things at one place which is not possible in the conventional way of shopping. Convenience is the biggest advantage of shopping online. It will give you the opportunity to shop 24/7. You don’t have to get dressed up and visit your favorite store. Through our website, you can do your shopping online comfortably at any time. The prices offered at our website are relatively much lower than what you will find at the conventional stores. Cheap deals are mostly available at our website, because products come directly from the seller or manufacturer without the involvement of a middlemen. There are several choices available online. Online shopping allows you find many products that you weren’t able to find in any physical store. Shopping malls or markets are usually over crowded during festivals or special events, which can be a huge headache. Therefore, through online shopping, all these problems can be easily avoided. Shopkeepers and other business man can expand their business by selling their products on our website.

## Product Scope

This website is basically providing the shopkeepers and other business man to sell their products online on our website to expand their business and also it is time consuming for our users. There is no need to visit their nearest shop for buying products. All the products they will get online on our website. Due to other online shopping websites, our shopkeepers are facing loss in their business so our goal is to make them profit in their business and also the users will receive their product in short time period.

## References

IEEE 830-1998 standard for writing SRS document.

# Overall Description

## Product Perspective

OSMS is the online shopping management system which provides the variety of products for the users. This system will help the shopkeepers to expand their business.

This online shopping management system will provide a platform to the user which they can operate from anywhere.

## Product Functions

* Different payment services: In our shopping management system we are providing our customers different payment services like Net Banking, Credit Card, Debit Card, and Cash on Delivery.
* Variety of products: In our shopping management system we are providing our customers different variety of products for shopping. So they can at home at any time and save their precious time.

* Superior images of products: In our shopping management system we are providing our customers superior images of products. So they can get the clear idea about the product which will help the customer to make their decision faster for buying the product or not.
* Security: In our online shopping management system we are opting different security features like HTTP Protection, Firewall Protection and a built-in SSL data encryption for website security.

* A detailed product description: Shopkeepers will provide a detailed product description to our customers. So that the customers can get complete information about the product.

* Reviews and Feedback option: We are providing the function of review and feedback in our website. If the customers have any complaint about any product or service they can tell us through the review and feedback option.

## User Classes and Characteristics

1. Admin : Admin will keep the track of all the activities of Customers & Shopkeepers.
2. Shopkeeper : Shopkeeper will upload their products with detailed description .
3. Customer : Customers can create their account to search and shop for the variety of products .

## Assumptions and Dependencies

Web Site: Customers must have a basic knowledge of English and Internet.

Physical device: The customer must have the basic idea to use the computer or mobile phone and should be aware of how to lodge a complaint and pay the bill.

# External Interface Requirements

## User Interfaces

A website is developed for users for shopping the variety of products and also for the shopkeepers for expanding their business with the help of our website.

The website is built using PHP and Python

The website is developed using Word press software.

The customer accesses the facilities provided by the system via the website.

The users can even communicate with us by giving their valuable feedback and reviews.

## Hardware Interfaces

Physical devices like a laptop or a mobile phone is required to access the services provided by the online website.

### Internet: For using our website, access to a high-speed Internet connection is vital. It will make the sessions of users and online website more interactive.

External Hard drive or DVD: If the website crashes or the files become corrupted, at that time backup in the external hard drive or in dvd will be used.

### Server: Server computer is needed for hosting our website on to make sure that it is available all the time for anyone trying to access it.

Hardware : Pentium

RAM : 2GB

## Software Interfaces

The software interfaces used are as follows:

1. Operating System: Windows
2. Web Technologies: HTML, JavaScript and PHP
3. IDE: Net Beans and Eclipse
4. Web Server: Tomcat and Apache web server
5. Database: MySql Database

## Communications Interfaces

The communication between the customers and the shopkeeper can be done via Internet or Telephone.

The email address of the shopkeeper is provided along with the phone number. The customers can either mail the shopkeeper on the given email address or call.

The customer or the shopkeeper can also contact management using the website’s feedback service or can either mail regarding there complain or reviews.

# System Features

#### Risk reducers: We will Include a few good risk reducers, such as free shipping and return offers at this point for our customers.

* Shopping cart: Obviously, the shopping cart is an integral part of our online shopping website.

* Wish list: Sometimes, our customer may be interested in a product but decide to buy it later. Or a customer may find a product interesting and want to check that later for more details. The wish list will allow them to store a list of these products so that they can easily find them next time they visit our site.
* Featured products or Best selling products or New arrivals: We will manually add featured products or automate the process to show a list of best selling products here.
* Consistent image size: The product images in a category page are having a consistent size. It’s not just about the resolution, they are having a similar amount of white space at the borders too.
* Product filtering and sorting: Product filtering allows customers to filter products based on different attributes. For example, a clothing store may use gender, size, colour etc. as its filtering options. The sorting allows viewing products on ascending or descending order of price and arrival.
* Good quality of images with zoom in functionality: At the product pages, there are high-quality images that can be zoomed in to view particular parts of the product.
* Accept all payment methods: Our online shopping website accepts most of the payment methods that are popular among your customers.
* Cart details: Mention all details regarding what the customer has in the cart. It will be definitely the product name, price and quantity of individual products.
* Allow items to be saved for later: If for any reason a customer doesn’t want to go through the payment process at this stage, provide them with a way to store their cart in case they want to come back later.
* Multilevel security: Security is always one of the most important aspects of any shopping business. Apart from SSL certificates, our site is having a strong firewall and layers of security on login and contact forms.

## System Feature 1

4.1.1. Functional Requirements

1. Users:-

Requirement ID :- T1.100.00

Title :- Search Box

Description :- It is applied for searching products and shops.

Requirement ID :- T1.100.00

Title :- Filter

Description :- It is used to apply filter according to user requirements

Requirement ID :- T1.100.00

Title :- Sort

Description :- Result can be sort according to price and popularity.

Requirement ID :- T1.100.00

Title :- Availability

Description :- To check whether the product is available or not.

Requirement ID :- T1.100.00

Title :- Cart

Description :- To add number of products in cart.

Requirement ID :- T1.100.00

Title :- Payment Option

Description :- Online and offline payment options.

Requirement ID :- T1.100.00

Title :- Tracking Product

Description :- Durability of receiving the product

1. Shopkeeper:-

Requirement ID :- T1.200.00

Title :- Add product

Description :- Shopkeeper can add variety of products.

Requirement ID :- T1.200.00

Title :- Delete Product

Description :- Shopkeeper can delete the product.

Requirement ID :- T1.200.00

Title :- Accept and Reject option for delivery

Description :- Shopkeeper can decide whether to accept or reject product for delivery.

Requirement ID :- T1.200.00

Title :- Create and Delete account

Description :- Shopkeeper can decide to create or delete the account

1. Admin:-

Requirement ID :- T1.200.00

Title :- Remove Shopkeeper

Description :- To remove unwanted shopkeepers account.

Requirement ID :- T1.200.00

Title :- Remove product

Description :- To remove unwanted product.

Requirement ID :- T1.200.00

Title :- Reviews

Description :- Getting reviews of the products.

Requirement ID :- T1.200.00

Title :- Number of products sell

Description :-T o know the amount of selling products.

# Other Non-functional Requirements

## Performance Requirements

The system is designed in such a way that is utilizes all the utilities in efficient manner. Thus, consumes minimum time to produce correct output. Hence, performance of the system is optimized.

## Safety Requirements

The online shopping Management System is capable of handling all types of errors and malwares. Thus, it is safe to use.It also covers error handling. Hence when an error occurs, system is strong enough to rectify it without causing any inconsistency or slowing down the machine.

## Security Requirements

The system achieves all CIA approaches.

**Confidentiality**: The credentials are kept confidential and only the DBA has access to it.

**Integrity**: The changes which are requested by the user should be reflected in database only by authenticated/authorized user only and not by any other user.

**Availability**: The site is available 24\*7 for the user accessibility.