

SOFTWARE REQUIREMENT **SPECIFICATION FOR ONLINE** **SHOPPING STORE.**

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1. Introduction

1.1 Purpose

- The Online Shopping Store web application is intended to provide complete solutions for vendors as well as customers through a single gateway using the internet as the sole medium. It will enable customer to browse through the shop and purchase them online without having to visit the shop physically. The administration module will enable a system administrator to approve and reject requests for new shops and maintain various lists of shop category
- This document is meant to discuss the features of Shopping store, so as to serve as a guide to the developers on one hand and a software validation document for the prospective client on the other.

1.2 Scope

Initial functional requirements will be: -

- Secure registration and profile management facilities for Customers
- Browsing through the e-store to see the items like shoes and accessories.
- Creating a Shopping cart so that customers can shop 'n' no. of items and checkout finally with the entire shopping carts. Customers can add or delete items in the cart.
- Uploading 'Most Purchased' Items in each category of products in the Shop.
- Maintaining database of regular customers of different needs.

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Initial non-functional requirements will be: -

- Secure access of confidential data (user's details).
- 24 X 7 availability
- Better component design to get better performance at peak time

1.3 Audience Definitions, Acronyms and Abbreviations

1.3.1 Audience Definitions

The intended readers of this document are the developers of the site, testers, website owners, managers and coordinators.

1.3.2 Acronyms and Abbreviations

Acronym	Meaning
OSS	Online Shopping Store
CSS	Cascading style sheet
HTML	Hypertext Markup Language
HTTPS	Secure Hypertext Transfer Protocol
TCP/IP	Transmission Control Protocol/Internet Protocol

1.4 References

- IEEE 830-1998 standard for writing SRS document.
- <https://www.perforce.com/blog/alm/how-write-software-requirements-specification-srs-document>

1.5 Technologies to be used

- **CSS** : Stands for "Cascading Style Sheet." Cascading style sheets are used to format the layout of web pages. They can be used to define text styles, table sizes, and other aspects of Web pages that previously could only be defined in a page's HTML.
- **HTML, XML**: Hyper Text Markup Language and Extensible markup Language are the predominant markup languages for web pages. It provides a means to describe the structure of text-based information in a document and to supplement that text with interactive forms, embedded images, and other objects.
- **JavaScript**: A client side scripting language used to create dynamic web content and user interface.

Tools & Development Environment

- **Visual Studio Code** is a source-code editor made by Microsoft for Windows, Linux and macOS. Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded Git.

2. Overall Description

2.1 Product Perspective

- OSS should be user-friendly, 'easy to learn' and reliable website for shopping purpose. OSS is intended to be a stand-alone product and should not depend on the availability of other software. It should run on both UNIX and Windows based platform.

2.2 Product Functions

- User: Administrator
- Functions: The Administrator is the super user and has complete control over all the activities that can be performed. The application notifies the administrator of all shop creation requests, and the administrator can then approve or reject them. The administrator also manages the list of available product categories. The administrator can also view and delete entries in the guestbook.
- User: Customer/Guests
- Functions: A Customer can browse through the shops and choose products to place in a virtual shopping cart. The shopping cart details can be viewed and items can be removed from the cart.

2.3 User characteristics

- The user should be familiar with the Shopping Mall related terminology like Shopping cart/Checking out/Transaction etc.
- The user should be familiar with the Internet.

2.4 Constraints

- Limited to HTTP/HTTPS.
- Real-life credit card validation and Banking system is not implemented.
- No multilingual support

2.5 Operating Environment

The OSS is a website that shall operate in all famous browsers, for a model we are taking Microsoft Internet Explorer versions 7.0, 8.0 and 9.0 .

3. Specific Requirements

3.1 Functional Requirements

1. Administrator:

- **Database Management:** Control the database and keep track of all records of customers.

2. Customers:

- **Login:** Customers must have a valid login id to enter into the site.
- **Registration:** New users can sign up by creating new ID.

- **Purchasing:** Can purchase any product through valid credit card.
- **Giving Feedback to Customer Care:** Can give feedback to the 24X7 Customer Care Service center about their impression for the site and services.

1. Visitors:

- **Visiting the Site:** Can only visit the site without registration.
- **Register**

3.2 Non-functional Requirements

3.2.1 Performance Requirements

- The system shall accommodate high number of items and users without any fault.
- Responses to view information shall take no longer than 5 seconds to appear on the screen.

3.2.2 Safety Requirements

- System use shall not cause any harm to human users.

3.2.3 Security Requirements

- System will use secured database
- Normal users can just read information but they cannot edit or modify anything except their personal and some other information.
- System will have different types of users

3.2.4 Error handling

OSS shall handle expected and non expected errors in ways that prevent loss in information and long downtime period.

4. Interfaces Possible Scenarios

4.1 Customer's Interface:

4.1.1 Login:

This interface will consist of two compulsory fields namely, “User Name” and “Password”. There will also be options for “Sign up” which will redirect to “Registration” page and a “Forgot Password” option in case a user forgets the password.

If the password entered is correct the Main User Interface opens up else an error message is displayed.

4.1.2 Registration Interface

The user will enter his personal details like Name, User Name, Password, Date Of Birth, Address, Registration Type, etc.

Users will be warned about any mistakes on data format or any other constraints by validation notes and error messages.

When the button "save" button is clicked, the server will check if the username or email is already taken and alert the user.

If everything is entered correctly and saved a new user will be created.

4.1.3 Cart

This will be a space for the customer where he/she can store the items he/she wishes to buy. The user can also remove items from cart prior to checkout. Once the user decides to buy the items in cart, the user is directed to the payment page for making payment.

4.1.4 Payment

The user is given options with various modes of payment (online payment through credit/debit cards, via net or mobile banking or cash on delivery) out of which he chooses one. The chosen mode of transaction is carried out therefore by proper verification and authentication of bank details.

4.2 Interface for Administrator

The administrator will have a id using which he can access his account that contains a control panel that allows him to control each and every aspect of the system.

This control panel will allow the administrator to do the following things:

- Access and view the customer database.
- Make the catalog (that is visible to the customer)