**SOFTWARE REQUIREMENT SPECIFICATION FOR ONLINE STORE.**

Prepared by

**Atikur Rahman**

**ID:1632365042**

**Abdus Salam**

**ID:1632929042**

**Walid Hasan**

**ID:1631087042**

**Shaheen Ahsan**

**ID: 1621876042**

Proposed to

**Prof.**

**Musfique Anwar**

Table of Contents

1. **Introduction**

1.1 Purpose

* 1. Scope
  2. Audience, Definitions, Acronyms and Abbreviations
     1. Audience Definitions
     2. Acronyms and Abbreviations
  3. References
  4. Technologies to be used

**2. Overall Description**

2.1 Product Perspective

2.2 Product Functions

2.3 User Characteristics

2.4 Constraints

2.5 Operating Environment

**3.Specific Requirements**

3.1 Functional Requirements

3.2 Non-functional Requirements

3.2.1 Performance Requirements

3.2.2 Safety Requirements

3.2.3 Security Requirements

3.2.4 Error handling

**4. Interfaces and Possible Scenarios**

4.1 Customer’s Interface

4.1.1 Login

4.1.2 Registration Interface

4.1.3 Personal Data Editing

4.1.4 Search

4.1.5 Add as favorites

4.1.6 Cart

4.1.7 Payment

4.1.8 Support

4.2 Interfaces for Shop Owner

4.3 Interfaces for Sales Manager

4.4 Interfaces for Accounts Manager

4.5 Interfaces for Purchase Manager

4.6 Interfaces for Customer care

4.7 Interface for Administrator

# 1. Introduction

**1.1 Purpose**

* This document is meant to delineate the features of OS, 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. The Online Store (OS) for electronics item shop web application is intended to provide complete solutions for vendors as well as customers through a single get way using the internet. It will enable vendors to setup online shops, 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.

**1.2 Scope**

This system allows the customer’s to maintain their cart for add or remove the product over the internet

**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** |
| OFS | Online Fashion Store |
| JAVA EE | Java Enterprise Edition 5 |
| HTTP | Hypertext Transfer Protocol |
| HTTPS | Secure Hypertext Transfer Protocol |
| TCP/IP | Transmission Control Protocol/Internet Protocol |

**1.4 References**

<https://www.tutorialspoint.com/e_commerce/e_commerce_tutorial.pdf>

## 1.5 Technologies to be used

* Programming languages:
* JAVA EE: Java Enterprise Edition is a programming platform— part of the Java Platform-for developing and running distributed multi-tier architecture Java applications, based largely on modular software components running on an application server.
* 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.

**2. Overall Description**

**2.1 Product Perspective**

* OS is aimed towards the vendors who want to reach out to the maximum cross-section of customer and common people who can be potential customer. This project envisages bridging the gap between the seller, the retailer and the customer. OFS should be user-friendly, ‘quick to learn’ and reliable software for the above purpose. OFS 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: Shop Owner
* Functions: Any user can submit a shop creation request through the application. When the request is approved by the Administrator, the requester is notified, and from there on is given the role of Shop Owner. The Shop Owner is responsible for setting up the shop and maintaining it. The job involves managing the sub-categories of the items in the shop. Also, the shop owner can add or remove items from his shop. The Shop Owner can view different reports that give details of the sales and orders specific to his shop. The Shop Owner can also decide to close shop and remove it from the website.
* 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. To proceed with the purchase, the customer is prompted to login. Also, the customer can modify personal profile information (such as phone number and shipping address) stored by the application. The customer can also view the status of any previous orders, and cancel any order that has not been shipped yet.
* User: Employees
* Functions: Purchase department under a Purchase manager to overlook purchasing activities if warehousing needs arise.
* Functions: Sales department under a Sales manager who will look after the sale of products and services, the most important activity.
* Functions: Accounts department under an Accounts manager to look after the accounting activities of the enterprise

## 2.3User characteristics

## User should be familiar with the terms like login,register,order system etc.

## 2.4Constraints

* There is no maintainability of back up so availability will get affected.
* Limited to HTTP/HTTPS.
* Real-life credit card validation and Banking system is not implemented.
* No multilingual support

**2.5 Operating Environment**

The OFS 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:**

This section provides requirement overview of the

system.

Various functional modules that can be implemented by

the system will be -

**3.1.1 Registration**

If customer wants to buy the product then he/she must

be

registered, unregistered user can’t go to the shopping

cart.

**3.1.2 Login**

Customer logins to the system by entering

valid user id and password for the

shopping.

**3.1.3 Changes to Cart**

Changes to cart means the customer after

login or registration can make order or

cancel order of the product from the

shopping cart.

**3.1.4 Payment**

In this system we are dealing the mode of payment

By Cash. We will

Extend this to credit card, debit card etc. in the future.

**3.1.5 Logout**

After ordering or surfing for

The product customer has to

Logout.

**3.1.6 Report Generation**

After ordering for the product, the system

Will sent one copy of the bill to the

Customer’s Email-address and another one

For the system data base.

**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 and every user has access constraints.

**3.2.4 Error handling**

OFS 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 “New User’s Registration” 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 constrains 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 Personal Data Editing**

If any member wants to change his personal information he can enter his profile by clicking on his name at the top right of the main page and he will be directed to the personal details editing page.

**4.1.4. Search**

The customer can enter the type of item he is looking for and the specifications he is interested in them he can click on “Search”. User can also use advanced search for more options. For e.g. the user can filter the results basing on various aspects such as size, color, material, brand etc. and also they can sort the product display according to their wish (relevance, price in ascending or descending, popularity)

**4.1.5 Add as favorites**

The user can shortlist his/her favorite item as a list for future reference.

**4.1.6 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 it cart, the user is directed to the payment page for making payment.

**4.1.7 Payment**

The user 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 chose mode of transaction is carried therefore by proper verification and authentication of bank details.

**4.1.8 Support**

The user can contact with the customer care via phone call or via messages. User can ask for an assistance or can give feedback on a particular aspect.

**4.2 Interface for Shop owner**

The shop owner will have a different login id using which he can access his account that contains a control panel that allows him to contact the administrator, set up/ maintain shop etc.

This control panel will allow the shop owner to do the following things:

* Request the admin for a permission to set up a shop.
* Set up the catalog for his shop and upload it so that the admin can make it visible in the website.
* Add/Remove items. The corresponding changes will be done in the database by the Admin.
* Create advertisements for his products.
* Generate a sales report.
* Discontinue the shop.

**4.3 Interface for sales manager**

The sales manager will have a different login id using which he can access his account that contains a control panel that allows him to contact the administrator and manage sales.

This control panel will allow the sales manager to do the following things:

* Maintain the product database so that the same or different kinds of products are properly maintained with their unique id, so that when a customer orders a product, the same product gets allocated without causing any inconsistency to the database.
* Generate current order shipping status status and upload it time to time and provide an expected delivery date. In case a user cancels a particular order, the same is taken care of by the sales manager and proper order status is changed and reflected back.
* Promote sales by associating products with offers and discounts.
* Contact the admin.

**4.4 Interface for Accounts manager**

The Accounts manager will have a different login id using which he can access his account that contains a control panel that allows him to contact the administrator and manage various transactions and accounts.

This control panel will allow the Accounts manager to do the following things:

* Keep track of payment transactions differentiated by their unique id and associated with corresponding user and update payment information.
* Contact he bank for account validation.
* Contact Administrator.

**4.5 Interface for purchase manager**

The Purchase manager will have a different login id using which he can access his account that contains a control panel that allows him to contact the administrator and manage various purchases for the warehouse.

This control panel will allow the Purchase manager to do the following things:

* Whenever the stocks in warehouse goes under a critical value, the system alerts the purchase manager about it and he contacts the administrator seeking permission to make a purchase from a particular vendor.
* Contact a vendor for making a purchase.

**4.6 Interface for customer care**

A customer care employee will have a different login id using which he can access his account that contains a control panel that allows him to contact the administrator and manage various queries and feedbacks from the customer.

This control panel will allow a customer care employee to do the following things:

* Read feedbacks from a particular customer and let the administrator know about it.
* Provide solutions to the queries posted by the customer.
* Contact administrator.

**4.7 Interface for Administrator**

The administrator will have a different login id using which he can access his account that contains a control panel that allows him to contact 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.
* Access and view the database of vendors, go through their requests for shop creation and reply them back with acceptance /dismissal of their request.
* Access and view the employee database and manage them.
* Make the catalog (that is visible to the customers), taking the design of corresponding shop owners in consideration .
* Grant/ Reject purchase permit to purchase manager.
* Manage employee salary.
* Contact employees.