
Software Requirements Specification

for

E-Commerce Website

Version 1.0

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1. Introduction

1.1 Purpose

This document is meant to delineate the features of Online shopping system, 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 Shopping System (OSS) 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 Document Conventions

This document follows Modern Language Association format. Bold text has been used to emphasize section and sub-section headings.

1.3 Definitions

OSS- Online shopping System (for electronics item shop)

SRS- Software Requirement Specification

GUI- Graphical User Interface

Stakeholder - The person who will participate in system Ex. Customer, Administrator, Visitor etc.

1.4 Product Scope

The final product allows anyone with internet access to register with the system and choose among various categories of products, view product details, add them to cart. Then, provided they have at least a product in their shopping cart, proceed to place order, decrement the stock that the inventory the system maintains. the automated email functionality will be used to send confirmation to the buyer when he places an order. any member of the system will be able to reset his password through an OTP sent to him via email.

2. Overall Description

The Online Shopping system (OSS) application enables vendors to set up online shops, customers to browse through the shops, and a system administrator to approve and reject requests for new shops and maintain lists of shop categories. Also, the developer is designing an online shopping site to manage the items in the shop and also help customers to purchase them online without visiting the shop physically. The online shopping system will use the internet as the sole method for selling goods to its consumers.

2.1 Product Perspective

This product aimed towards a person who don't want to visit the shop as he might don't get time for that or might not be interested in visiting and dealing physically with lot of formalities.

2.2 Product Functions

- ⇒ User management
- ⇒ Category management
- ⇒ Product management
- ⇒ Order management
- ⇒ Communication via email

2.3 User Classes and Characteristics

User should be familiar with the terms like login, register, order/payment system and have valid email id which will be used to send confirmations and OTPs.

Two types of users:

- ⇒ Admin: Add new products and decide their prices.
- ⇒ Customer: View products, add to cart and order.

2.4 Operating Environment

Any Operating system device having browsers chrome, Firefox or Microsoft edge etc. with internet connection.

2.5 Design and Implementation Constraints

Internet: A full internet connection is required.

Memory: device will have 2GB internal hard drive. Software and database cannot exceed this amount.

Operating system: no specific OS is required.

2.6 User Documentation

Section- External interface requirements and user manual.

2.7 Assumptions and Dependencies

→ The email id given by the user while creating account is a valid one.

→ Customer will have working Internet Connection and supported browser.

3. External Interface Requirements

3.1 User Interfaces

This website has been specifically designed with their customers in mind, allows users to buy products without going to the store.

Home screen offers a menu with different categories, user can select any one and will be taken to the respective page containing various products of that category. Choosing a specific product will show the details of the product. Add to cart, increase the quantity etc. options will be displayed.

3.2 Hardware Interfaces

Hardware requirements for insurance on internet will be same for both parties which are as follows: Processor: Dual Core

RAM: 2 GB

Hard Disk: 320 GB

NIC: For each party

3.3 Software Interfaces

Operating system: Windows, Linux, MacOS

Web browser, working internet connection.

4. System Features [Functional Requirements]

This section provides required features of the system.

4.1 Registration

Input: New users will have to input a valid email-id, username, password to register.

Output: On successful registration the user will be redirected to the Login page.

4.2 Login

Input: Registered user inputs username and password.

Output: on successful validation user is redirected to the dashboard else prompted to again input credentials.

4.3 Product view/search

Input: key-words typed in the search-bar.

Output: Relevant search results will be displayed.

4.4 Shopping Cart

State: user must be Logged in.

After logging in, customer can add or remove items from the cart and proceed to checkout or cancel the order.

4.5 Payment

State: user must be logged in.

Mode of payment is via credit/debit card by providing the cvv and account number.

4.6 Logout

After browsing the products or placing the order customers has to logout which can protect unauthorized use.

4.7 Report generation

After successful payment of the order, system will send a confirmation email to the registered email address.

5. Other Nonfunctional Requirements

5.1 Performance Requirements

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.

5.2 Security Requirements

User email-id and password are confidential data, should not be disclosed by to anyone and it is recommended to logout every time after using the website which can provide secure access and not let in any unauthorized user.

5.3 Software Quality Attributes

- ⇒ Easy to use
- ⇒ Security – secure access to consumer' s confidential data
- ⇒ Reliability
- ⇒ 24x7 availability

- ⇒ Maintainability
- ⇒ Portability
- ⇒ Extensibility - Flexible service-based architecture will be highly desirable for future extension.
- ⇒ Reusability
- ⇒ Compatibility - Better component design to get better performance at peak time.
- ⇒ Resource Utilization

5.4 Technical

This system will work on client-server architecture. It will require an internet server and which will be able to run Django application. The system should support some commonly used browser such as Firefox, chrome etc.