Software requirement specification document for the project

SELLING AND PURCHASING PLATFORM FOR STUDENTS

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May 3, 2023

1 Table Of Contents

2 Introduction

2.1 Purpose of this document

This document is meant to delineate the features of an online platform for selling and purchasing goods, to serve as a guide to the developers on one hand and a software validation document for the prospective client on the other. It is useful in the way that it makes an easier way to buy and sell useful things online. It will allow students studying in the college to buy, advertise and sell their goods on the Internet.

It will enable vendors to set up online shops, and customers to browse through the shop and purchase them online without having to visit the shop physically. We have 2 modules. The first module includes the customer module and the second module includes the seller module. This website acts as an intermediate between buyers and sellers.

2.2 Scope of this document

This system allows the customers to maintain their cart for adding, removing, and buying products over the Internet.

2.3 Overview

This system provides an easy solution for customers to buy the product without going to the shop and also to the shop owner and students to sell their products.

3 General Description

3.1 Product Functions

The customer can register or login into the website, browse the category of the product which he wants to buy, add or remove items from their cart, buy them, participate in bidding if they want to, and can also report the seller.
The seller can register or login into the website, advertise their goods, and sell their goods on the internet.
The administrator can register or log in, approve/ disapprove the seller's product advertisements, manage the customer database, add, remove, or update the customer's cart, and ship orders.

3.2 Similar System Information

Similar system features mean the features that are already available from some of the most used sites on this platform. Some of those main features are:

1. Recommendations on the home page are based on the items the consumer is searching for.[1]

2. Sorting according to prices, Category, and recently added.[1]

3. Chat options for sellers and buyers to directly interact with each other.[1]

4. Personalized account for sellers and buyers with guides to start the process.

3.3 User Problem Statement

Items left unsold for a long time should be sent to the bidding market so that they won't be wasted, homemade products must be given special attention, and to improve the scope for both personalized and business purpose sellers.

3.4 User Objectives

1. A smoother and simpler site(than most of the existing ones) for purchasing and selling objects online.

2. Exquisitely made for students i.e most of the products sold will be for student purposes.

3. All the items will undergo checking to restrict illegal items or explicit content before putting them up on the selling platform.

4. Items unsold for a long time will be up on the bidding page, where each buyer can make their bid until the seller meets his price.

3.5 General Constraints

A full internet connection is required for this platform and a browser like Mozilla Firefox, internet explorer, etc.

4 Functional Requirements

This section provides a requirement overview of the system. Various functional modules can be implemented by the system will be -

Registration: If the customer wants to buy the product, then he/she must be registered. The one who hasn't registered can neither add/remove items from the cart nor buy the items he wants.

Login: Customers who have registered can log in to the system by entering a valid user id and password for the shopping.

Changes to Cart: Changes to the cart means the customer after login or registration can add or remove items from the cart.

Purchasing: Customers can make an order or cancel the order of the product from the shopping cart.

Logout: After ordering or surfing for the product customer has to log out from the website.

Feedback: The customer can write reviews and give feedback regarding the products.

5 Interface And Requirements

5.1 User Interfaces:

Home Page: The website's home page should provide an overview of the platform's key features and benefits, including search functionality for products, promotions, and user reviews.

Registration and Login: The website should have a user registration and login page that enables buyers and sellers to create and manage their accounts securely.

Product Listings: The website should have a user-friendly product listing page that allows sellers to create and manage their product listings easily, including uploading product images, descriptions, pricing, and inventory management.

Shopping Cart: The website should have a shopping cart feature that allows buyers to add multiple products to their cart, view their cart contents, apply promotional codes or discounts, and initiate the checkout process.

Seller Dashboard: The website should have a seller dashboard that allows sellers to manage their product listings, orders, sales, and customer feedback easily.

Bidding Page: The website should have a Bidding page that puts unsold items up for Auction.

5.2 Hardware Requirements

Hardware Requirements for Insurance on the Internet will be the same for both parties which are as follows:

Server: The website should be hosted on a dedicated server with a minimum of 4 cores, 16 GB RAM, and 500 GB HDD or SSD storage.

Backup: Regular backups of the website's data should be taken and stored on a separate physical storage device or cloud storage.

5.3 Network and Communications Requirements

To ensure optimal performance and user experience, the website should meet the following network and communication requirements:

Network: The website should be hosted on a reliable and secure network infrastructure with a minimum bandwidth of 100 Mbps and a maximum latency of 50 milliseconds.

Protocols: The website should use industry-standard protocols such as HTTP, HTTPS, TCP/IP, and DNS for communication and data transfer.

Integration: The website should integrate with popular communication channels such as email, SMS, and chatbots to provide timely and efficient customer support.

5.4 Software Requirements

Operating System: The website's server can be made to run on Windows, mac but a stable and secure os such as Linux is preferable.

Database: The website's data should be stored in a scalable and secure database system such as MySQL or PostgreSQL.

Programming Languages and Frameworks: The website should be developed using industry-standard programming languages such as HTML, CSS, JavaScript, and Python. A modern web development framework such as Django, Laravel, or Ruby on Rails should also be used.

6 Other non-functional attributes

6.1 Non-Functional Requirements:

The following Non-Functional Requirements will be there in the insurance to the Internet:
1. Secure access to consumers' confidential data.

2. 24X7 availability.

3. Better component design to get better performance at peak time.

4. The flexible service-based architecture will be highly desirable for future extensions. Non-Functional Requirements define the system properties and constraints.

6.2 Various other Non-Functional Requirements are:

1. Security
2. Reliability
3. Maintainability
4. Portability
5. Extensibility
6. Re-usability
7. Compatibility

References

OLX [1]: https://www.olx.in/