Software Requirements Specification

LNMIIT MARKET

Version 1.0

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Revision History

Name	Date	Reason For Changes	Version

1. Introduction

1.1 Purpose

The purpose of the document is to collect and analyze all assorted ideas that have come up to define the system, its requirements with respect to consumers. Also, we shall predict and sort out how this product will be used in order to gain a better understanding of the project, outline concepts that may be developed later, and document ideas that are being considered, but may be discarded as the product develops.

It will enable vendors to put their products on the page, customer to browse through the e-Buy and purchase them online without having to visit the seller physically. The administration module will enable a system administrator to approve and reject requests for new products and maintain various lists of product category.

In short, the purpose of this SRS document is to provide a detailed overview of our software product, its parameters and goals. This document describes the project's target audience and its user interface, hardware and software requirements. It defines how our client, team and audience see the product and its functionality.

1.2 Document Conventions

For the following paragraphs, depicting the functions of the system, from the perspective of the various users of the system, the following colour codes has been used :

- BLUE for administrator
- GREEN for customers

1.3 Intended Audience and Reading Suggestions

The intended audience of this document includes project managers, designers, developers and end users (system/network administrators).

1.4 Product Scope

Initial functional requirements will be: -

Secure registration and profile management facilities for Customers.

Browsing through this software to see the items that are there in each category of products.

Adequate searching mechanisms for easy and quick access to the products and services.

1.5 References:

1. [IEEE] The applicable IEEE standards are published in "IEEE Standards Collection,"

2. Overall Description

2.1 Product Perspective

This Software 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 and the customer. This software should be user-friendly, 'quick to learn' and reliable software for the above purpose. This software is intended to be a stand-alone product and should not depend on the availability of other software. It should run on Windows based platform.

2.2 Product Functions

1) POST Modification:

   a) The system will display the entire product list that can be edited.

   b) The system will allow user to select the product to edit.

   c) The system will display all the available details of the products.

2) <u>Buyer can POST their Requirements.</u>

   a) The system shall allow users to POST for Products that they wish to buy.

3) <u>Provide Bidding facility to Sellers</u>

   a) The system shall allow users to POST for the bidding of their product.

4) <u>Provide comprehensive product details.</u>

   a) The system shall display detailed information of the selected products to the Users.

   b) The system shall provide browsing options to see product details.

5) <u>Provide Search facility.</u>

   a) The system shall enable user to enter the search text on the screen.

   b) The system shall enable user to select multiple options on the screen to search.

   c) The system shall display all the matching products based on the search.

   d) The system shall display only 10 matching result on the current screen.

   e) The system shall enable user to navigate between the search results.

   f) The system shall notify the user when no matching product is found on the search.

6) <u>Maintain customer profile.</u>

   a) The system shall allow user to create profile and set his credential.

   b) The system shall allow user to view his profile.

   c) The system shall allow user to update the profile information.

   d) The system shall allow users to see the Profile of any other user.

7) Provide personalized profile

   a) The system shall display both the active and completed order history in the customer profile.

   b) The system shall allow user to select the order from the order history.

   c) The system shall display the detailed information about the selected order.

   d) The system shall display the most frequently searched items by the user in the profile.

   e) The system shall allow user to add any customer as a favorite customer in profile.

8) Provide Customer Support.

   a) The system shall provide FAQ's customer support, and sitemap options for customer support.

9) Email confirmation.

   a) The system shall maintain customer email information as a required part of customer profile.

   b) The system shall send an order confirmation to the user through email.

   c) The system shall send an email to seller whenever his/her product gets reserved by any user.

   d) The system shall send an email to buyer whenever his/her reserved product gets confirmed by the seller.

   e) The system shall send an email to seller when buyer confirmed that he/she got the product.

10) Provide shopping cart facility.

   a) The system shall provide shopping cart during online purchase.

   b) The system shall allow user to add/remove products in the shopping cart.

11) Allow online confirmation, change or cancellation of order.

   a) The system shall allow user to cancel the order before seller approve buyer's reservation.

   b) Seller will confirm the reservation of the buyer online.

   c) After getting Product the buyer will confirm that he received the item.

12) Allow to know User ratings

  a) The system shall enable the users to see the ratings (Out of 10) of particular users.

13) Notification before dealing with unverified users

  a) If any user is buying or selling the products to a user who did some changes to his/her profile and don't have 'Verified' status in his/her profile than Notification is to be given that "The User you dealing with is an Untrusted User, Deal at your own Risk".

2.3 User Classes and Characteristics

This software is designed for two classes of users:

  1. People of The LNMIIT: they can add, modify, delete, purchase, sell the commodities/products. They can add, edit, and delete their info profile.

  2. Administration: they can implement and provide access to the software for users.

2.4 Operating Environment

This product is a Java-based Application and its database will be on a cloud server. Our goal is to make this application work on any operating environment based on Windows and UNIX/Linux. Primarily it will be developed and tested on Windows based environment.

2.5 Design and Implementation Constraints

Java Development Kit (JDK) should be pre-installed.

No other constraints at this point of time.

2.6 User Documentation

IEEE standards

2.7 Assumptions and Dependencies

No assumptions are made.

3. External Interface Requirements

3.1 User Interfaces

The first interface is the log-in screen. This is where the user has a specific Username and Password so that they can gain access to the database. Next is the Home panel interface which is divided into various tabs as following:

1. Home: Users can post regarding their buying and selling of items.

2. Favourites: Users can bookmark and view profile of their favourite users.

3. Market: New posts.

4. User Profile: Edit and update details about the user.

5. Settings: Configure network connections, appearance, sounds.

3.2 Hardware Interfaces

Though not any hardware constraints, the system must have the internet connection.

3.3 Software Interfaces

The application requires Java Virtual Machine (JVM) to create a Java Runtime Environment along with the internet connection.

3.4 Communications Interfaces

The system uses the internet connection to connect to database and hence uses protocols like HTTP/HTTPS, FTP.

4. System Features

4.1 System Feature 1

4.1.1 Description and Priority

4.1.1.1 Priority to First Buyer

    a) Once any Buyer reserved any Product than no other user can reserve that particular product.

4.1.1.2 Penalty to Seller

    a) If any seller POST any product to sell than he/she can cancel the POST before any other user reserve it.

    b) Once any user reserves any product than Seller will not be able to cancel the POST, he have to give the product to buyer and he can't sell that product to any other. While braking of any of the above rule, the seller will be penalized with Rs. 100/- and his 'Verified' mark will be removed.

4.1.1.3 Buyer buy products at their own risk from Non Verified User

    a) If Customer deals with any of Unverified user ('Non-Verified' status in profile) then a notification is given to Customer to Deal at his own risk and software management team will not be responsible for any further discrepancies regarding that particular deal.

4.1.2 Stimulus/Response Sequences

4.1.2.1 *TO MAKE ACCOUNT*
    a) Any person who wants to Create his/her account can sign up there and fill up the required details.
His Profile will get created but he will not able to buy/sell the items, not able to view the profile of others, he can just see the list products.

b) In order of being able to buy/sell he has to get 'Verified' status in his profile once, for that he/she have to get his profile verified from the Admin again.

4.1.2.2 *TO SELL*

a) If any user want to sell any product than he/she should have minimum balance of Rs.

100/- in his/her account as a Security money and his profile should have Green color in

'Verified column'.

4.1.2.3 *TO BUY*

a) Buyer can only buy the products whose cost is less than or equal to the balance he/she have.

b) No minimum balance is criteria is there for buyer.

c) If buyer wants to buy any product that is not in any list than he can POST for his requirement of the product and no minimum balance condition is there for this situation.

4.1.2.4 *TO DEAL*

a. The buying and selling process will be done in 3 steps:-

✓ Buyer will reserve a product which he/she wants to buy.

✓ Seller will confirm the reservation of the buyer.

✓ Seller will give product to buyer and buyer will confirm that he received the item and then money transfer will take place.

4.1.2.5 *TO CANCEL THE ORDER*

a. The system shall allow user to cancel the order before seller approve buyer's reservation.

    b. Once the product is reserved, seller shall not be able to change any info about the product.

    c. Once a product is reserved the seller will have to sell the product to the buyer, if Seller fails to complete the transaction then 100 points will be deducted from his account automatically.

4.1.2.6 *BIDDING FACILITY*

    a) Seller can put his POST on BIDDING.

    b) Starting price should be fixed by Seller.

    c) Bidding will over in 3 days. After 3 days the POST will be deleted from the BIDDING Page and Deal will become a normal deal reserved by seller with highest bid.

4.1.2.7 *TO CHANGE HIS PROFILE*

    a) The System shall not provide facility to User to change his name.

    b) However, User can change his Contact Number, Address and email id.
Any change in profile details will require verification from admin.

4.1.3 Functional Requirements

4.1.4 System Feature 2 (and so on)

5. Other Nonfunctional Requirements

5.1 Performance Requirements

Initial non functional requirements will be: -

The product shall take initial load time depending on internet connection strength which also

depends on the media from which the product is run.

The performance shall depend upon hardware components of the client/customer.

The product shall be 24 X 7 available based on if web facility is available and has to be run from a web server.

Better component design to get better performance at peak time

Dynamic price model by which prices can be changed based on demand and supply

This list is by no means, a final one. The final list will be dictated by implementation constraints, market forces and most importantly, by end user demands for whom this is being built.

5.2 Safety Requirements

♦ The software application will never display a user's password. It shall always be echoed with special characters representing typed characters.

♦ The system's back-end servers shall never display a customer's password. The customer's password may be reset but never shown.

♦ The system's back-end servers shall only be accessible to authenticated administrators.

5.3 Security Requirements

Secure access of confidential data (user's details)

The system shall use secure sockets in all transactions that include any confidential customer information.

Window close logout

5.4 Software Quality Attributes

5.5 Business Rules

6. Other Requirements

Appendix A: Glossary

Appendix B: Analysis Models

Appendix C: To Be Determined List