

Software Requirement Specification

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1. Introduction

1.1 Purpose

This is a SRS for a Social Network for an Online Shopping System. This Report defines the System looking at all the requirements and keeping the user in mind. This report covers all the features and requirements of our system like the Interface, Features, Hardware and Software. The scope of this product is really large as both Social Networks and Online Shopping is a huge part of today's world.

1.2 Document Conventions

SRS – Software Requirement Specification

OSSS – Online Shopping Social System

UI – User Interface

1.3 Intended Audience and Reading Suggestions

This document has kept in mind the various people who would need to read it like Developers to understand the backend, Marketing Staff to understand the problem the OSSS is solving, Users to know how the OSSS could benefit them and a lot of more people.

Reading the whole document will give the reader a fair idea of the Product; it's application and the problem it will be solving. It can also give them a insight on the working of the product and the functionality.

1.4 Product Scope

The scope of the product is very large as the OSSS provides an interactive platform for Online Shoppers, helping them interact with other Online Shoppers around the world to get a better idea on recent trends around the world. The users targeted will be Worldwide and will be shown latest trends in their location. They can see nearby streets where they can find more potential buyers or sellers and can also add their own information in for people to interact with them.

1.5 References

Not Available

2 Overall Description

2.1 Product Perspective

The product created is kind of a Hybrid, the Product is not a completely new System. It is more of merging of two systems to increase efficiency. Using the OSSS it will become easier for users to buy and sell products sitting at home. The customers will have unique features like Chatbox, Nearby Shops and etc. The UI will be designed keeping Users in mind to make it very interactive and user friendly.

2.2 Product Functions

- Registration and Verification.
- Customization of Account.
- Look at Nearby Products and Sellers
- Interact with Sellers.
- Daily Tips based on Recent Trends in the area.

2.3 User Classes and Characteristics

There will be different user classes like Guest Users, Registered Users and Sellers.

Guest Users – will be able to browse through the products and services nearby and get information about the sellers but will not be able to place orders.

Registered Users – Have all the abilities of a guest user and can place orders and use other functions like chat-box as well. Registered Users will also get to see ratings of various products and sellers which can improve their decision making.

Sellers – will need to register themselves before being able to look at the platform, can then sell their own products and can target users based on Age, Gender, Location and etc. The sellers will also get updates on recent trends, helping them improvise on their products. They will also get all the information about the buyers once an order has been placed.

2.4 Operating Environment

The OSSS is going to be web based so it can be accessed on all Operating Systems, Browsers and Platforms as long as it has Internet access. However, the features may be limited based on the Device or Browser being used, depending on the version of the browsers or device being used.

2.5 Design and Implementation Constraints

We will be using bits of PHP, Bootstrap and JQuery for building the platform. We are going to use MongoDB to manage the Databases. We may use third party apps to integrate a few additional features onto our platform.

2.6 Assumptions

The details of the product are updated manually. The location of the User is accurate (not using Firewall or VPN like software's to fake location data). The web servers are working properly.

3 External Interface Requirements

3.1 User Interfaces

The main aim while making the Interface interactive is to keep it very light process on the software end as the System is web based. Keeping it light will help it run smoothly for a large number of users at the same time. That given, the interface will be made easy to use for all users using modules to keep it Responsive for mobile and tablets as well.

3.2 Hardware Interfaces

Being a web based product, the user must have a device with at least 1 GB RAM for the OSSS system to run efficiently. Must be using a good browser like Chrome, Safari, Firefox etc. using a basic browser like the older version of Internet explorer might limit some features for the users.

3.3 Software Interfaces

PHP and CSS for the Front End. Backend has still not been finalized. For the databases with the user's personal information and the products, we intent to use MongoDB.

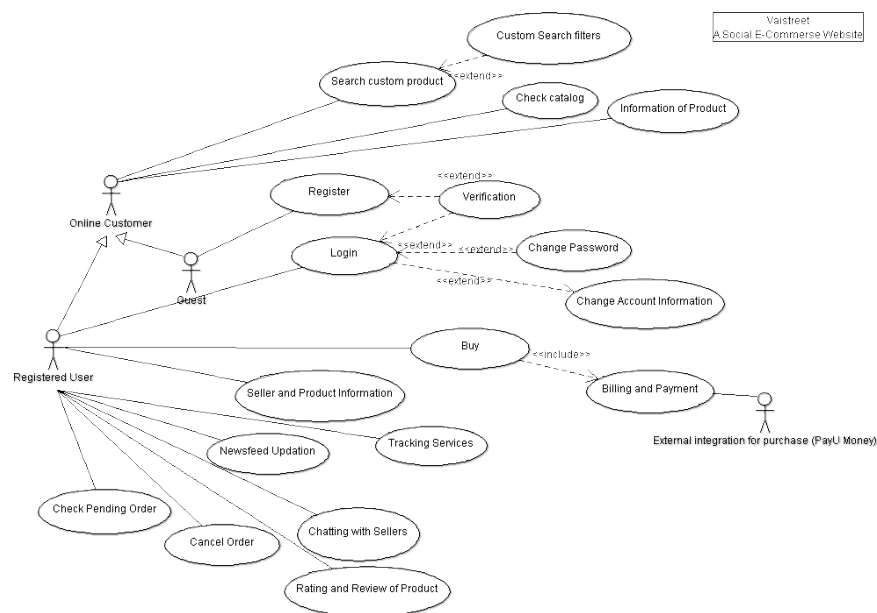
3.4 Communication Interfaces

If and when a User decides to order a product, his confirmation will be sent to him by Email, SMS or both, based on his preferences. The registered users will also be notified if a product they are interested in is back in stock or there is a fall in price.

4 System Features

ID	Name	Description
1	Search Custom Product	Used to search a list of Products the user wants to see/buy.
2	Custom Search Filter	The search results are to be specific based on the user and eliminate waste results.
3	Check Catalog	See the list of all the products and choose what to buy.
4	Information about Product	Has information related to specific product
5	Register	New Customers need to register to be able to buy products
6	Verification	Mobile Number or Email Verification at the time of Registration
7	Login	Returning Users can enter their Username Passwords to login and browse through new products
8	Change Password	A process to reset password for a existing User in case the password is forgotten.
9	Change Account Info	User is able to edit the previously entered information if there is a change or update in any of the information like Phone Number
10	Buy	User can place an order for any product after Payment and Verification.
11	Billing and Payment	After paying the required account, the E-Bill will be issued.
12	Seller and Product Info	A seller profile based on their previous ratings and reviews.

13	Tracking Services	User can track their order online.
14	News Feed Updation	Change in the news feed based on recent trends, popularity or recent orders by the user.
15	Chatting with Sellers	Chatting with Sellers and Other buyers to improve to get better information, also can be used for Customized orders.
16	Rating and Review of Product	User will be able to rate and review the ordered product once it has been delivered.
17	Cancel Order	User can cancel or replace the order subject to a valid reason for the same.
18	Check Pending Order	User can view all of his orders which have been placed.



5 Non Functional Requirements

ID	Name	Description
19	Performance	Being a web based system, it needs to be very fast and easy to use. It should allow the user to easily access the required product's information. The separate features like ChatBox, SearchBox and Newsfeed must be designed properly with them being easily accessible and not taking

		too much load on the server.
20	Security	The user data must be very well encrypted as it contains a lot of critical information like the Credit Card, Debit Card and other payment details. These details can cause a big problem if leaked or not secured. Timeouts need to be created while placing orders or during inactive sessions.
21	Availability and Maintainability	The OSSS should be easily available to all users if they have access to the Internet. It should be able to work on devices which less performances as well to have more audience. The web servers need to be well maintained to make sure there is no overload or failure. The Software must be regularly updated by fixing bugs experienced by users and bringing in new features as and when required by the users. This will help in making the customers happy, and will increase the longevity of the Software.

To be determined

Personalized Search Queries, Push Notifications & Audio and Video Calls in Chat box

Feasibility Study Implementation

The demand for this Software has not been our concern because we already have a client for the Software. If the feasibility system was not implemented, it would have been really difficult for us to move on with our project. The current software's are complicated and boring, they don't solve customers' problems efficiently, our product is innovative as it allows users to talk to each other and get review about every product in a detailed manner, which is lacking in current software's. There is no new kind of technology required to build this software, the software will just merge two of the most important sectors of the industry to help make online shopping easier and better. The integration of these two (Social Media and Online Shopping) can be problematic in a few areas and we need to address that well with efficient designing.

Traceability Matrix

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D=Dependent R=Related

No.	Requirement	Use case addressing the requirement
1.	Buying and Selling of Products	U5,U7,U8,U9,U10,U11,U17,U18
2.	Search for Product and Nearby Shops	U1,U2,U3,U14
3.	Communication	U13,U15,U16
4.	Product Details	U4,U12
5.	Security	U6

