Software Requirements Specification

Kartik Bhadada

U101114FCS078(S-3)

1. Introduction

The introduction gives us an basic understanding of entire SRS with purpose,scope and intended audiences and reading suggestions. The main aim of this document is to collect and analyze the online shopping software system by defining the problem statement in detail. All the important details and requirements for online shopping software system are stated in this document.

1.1 Purpose

The purpose of this document is to gather and examine all ideas that define the system and its requirements with keeping users in mind. Also, this document will act as a guide for user to understand and use the online shopping software system. This SRS document will brief our software product, its aim. This document covers all aspects of our project like its software and hardware requirements, its GUI. This document in better understanding of the functionality and how the product can be used to gain maximum benefit out of it.

1.2 Document Convention

SRS-software requirement specification
OSSP=online shopping software product
GUI-graphical user interface

1.3 Intended Audience and Reading Suggestions

This document is intended for all users and customers who wish to use the software product efficiently and for developers as a guide to know the product better for future improvements. This document should be glanced once so that the individual understands the working and problem solved by the product appropriately and can be used

when the customer is in any doubt or dilemma regarding the product's functionality.

1.4 Product Scope

The online shopping software product helps us to buy and sell products while sitting at home and user can also use the software to know nearby shops and much more information regarding it . The software mainly focuses on customers need and requirements.

1.5 References

-

2. Overall description

2.1 Product Perspective

The OSSP enables customers to buy and sell products online, it is not a whole new idea but it deals with the problem of customer in a better way using innovative ideas like news feed showing nearby shops, chat box and information regarding brands and product updates. GUI is enhanced to give efficient results.

2.2 Product Functions

- The user will have to create account for buying, selling OSSP, it will keep record of his/her orders.
-The customer can use guest mode to look at products but can't order them as guest.
- The customer will be able to place order for any available product and cancel and replace it if desired.
- The transactions shall be done online using credit/debit cards.
-Any error or fault in customer's order will be notified by customer to administration using helpline number.

2.3 User Classes and Characteristics

- Account Creation and Login

New users will have to create account to use the software and existing customer can login and surf products to buy and sell.

-Guest
 Users can check products without creating account but can't place an order.

- Order
 Customer can order desired products if available and cancel if he wants. User can track his/her order status using his account

Chat box-
All customers can
- Payment and Billing
User has to pay online through credit/debit cards, if the order is cancelled the amount will be returned to customer.

-Administrator Functions.
The admin can update new products or can alter the present products.

2.4 Operating Environment

The Software will be working on all operating systems and as it web based so it can be accessed by using a Computer or a smartphone.

2.5 Design Constraints

-Language used PHP and java only
-Database used Mongo DB only

2.6 Assumptions

-The details of the products are uploaded manually
-Administrator is created in the system already.

3. External Interface Requirements

3.1 User Interfaces

Each interactive part of software is made to be understandable and efficient for user. The

software will be kept light so it does not take time to load and can handle large number of users properly

3.2 Hardware Interfaces

A working Computer. The software will perform optimally with a System having 1 gb or more Ram and Intel Core2duo Processor or better.

3.3 Software Interfaces

Front End: PHP and CSS
Back End:
Database: Mongo DB

3.4 Communication Interfaces

The user will be notified about order confirmation and delivery through a SMS and a E-mail . Availability of new products will be done through E-mail

4. System Features

Id	Name	Description
1	View Catalog	User can see the list of all the products and can choose the product to buy.
2	News Feed	User can see rolling updates about website and products.
3	Search Box	User can search for specific product or anything he/she wants.
4	Search Filter	User can use more specific filters to eliminate unwanted products.
5	Product Details	User can view details like price and info of seller for any product.

6	Sign up	New customers have to register to order products.
7	OTP Verification	Mobile No. and E-mail verification using OTP at time of registration.
8	Sign in	Old customers need to login with login-id and password for new order.
9	Forgot Password	If existing customers forget their password ,a process to reset their password.
10	Credentials	Seller and products authentication based on previous records and user reviews.
11	Buy Product	User can buy desired product by OTP verification for authentication and paying.
12	Checkout and Invoice	Checkout by paying the required amount and invoice will be generated.
13	View Order	User can view his/her order records.
14	Order cancellation and replacement	User can cancel order or replace order.
15	Track Order	User can track his/her order status.
16	Product review	User can read and write review for any bought product based on their experience
17	Chat Box	Users can chat with each other so that they can buy good products.

5. Non-Functional Requirements

Id	Name	Description
18	Performance	The OSSP should be fast and easy to use. It should solve all user requirements in a proper way. The website should be light and bug free so it doesn't cause problem for users even when the load is high The Chat box, Search box and Newsfeed should be designed optimally to provide desired results.
19	Security	The website should be secure as it contains Debit, Credit card details and much more other personal information which can cause trouble if leaked. The website will use security layers and encryption to ensure security. It'll logout users after a certain period of inactivity.
20	Availability and Maintainability	The software should be available at any given point of time and in case of any fault or breakdown it should show appropriate webpage for user's information and software should be updated regularly to improve performance and new features to help customers need to be fulfilled completely.

- To be determined list

Push Notification.
Audio and video calls integration in chat box.

Traceability Matrix

Id	1	2	3	4	5	6	7	`8	9	10	11	12	13	14	15	16	17	18	19	20
1																				
2																				
3				R																
4			R																	
5																				
6							D													
7						D													R	
8									R											
9								R												
10																R				
11												D								
12											D									
13														R	R					
14													R		R					
15													R	R						
16										R										
17																				
18																				R
19						R														
20																		R		

Traceability development matrix

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

Feasibility

-We already have a client for our product so demand is there for our software.

If the system was not implemented, we will have to look for problems and modify our software to work and if we are not able to solve the problems, we will have to start from scratch again and as it doesn't require a major investment, we can do it. 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. No new technology or device is needed to make this software, present tools can be used to produce optimal product .However, integration of all requirements in an efficient manner can be problematic.