
Software Requirements Specification

for

OLX- Web Portal

Version 1.0

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1. INTRODUCTION

This section gives a scope description and overview of everything included in this SRS document. Also, the purpose for this document is described and a list of abbreviations and definitions is provided.

1.1 PURPOSE

The purpose of this document is to give a detailed description of the requirements for the “OLX-Web Portal”. It will illustrate the purpose and complete declaration for the development of system.

The intended readers of this document are current and future developers working on “OLX-Web Portal”.

1.2 SCOPE

The “OLX-Web Portal” is an e-commerce system where users search, buy or sale any product on a single click. It is free to use, you only need to create an account.

Sellers can provide their product information using the web-portal. This information will act as the bases for the search results displayed to the buyer. All system information is maintained in a database. By using the web-portal, users can view desired product if available and buy them.

1.3 DEFINITIONS, ACRONYMS, AND ABBREVIATIONS

Term or Acronym	Definition
Web-Portal	A web application which present special facilities for buyers and sellers.
User	Someone who interacts with OLX-portal.
HTML	Hypertext Markup Language is the code that is used to structure a web page and its content
CSS	Cascading Style Sheet can format the document content(written in HTML or other markup language): layout. colors.
Node.js	Node.js is an open-source and cross-platform JavaScript runtime environment.

Table . Definitions and Acronyms

1.4 OVERVIEW

The remainder of this document includes three chapters and appendixes. The second one provides an overview of the system functionality and system interaction with other systems. Further, the chapter also mentions the system constraints and assumptions about the product.

The third chapter provides the requirements specification in detailed terms and a description of the different system interfaces. Different specification techniques are used in order to specify the requirements more precisely for different audiences.. The Appendixes in the end of the document include the all results of the requirement prioritization and a release plan based on them.

2. OVERALL DESCRIPTION

This section will give an overview of the whole system .The system will be explained in its context to show how the system interacts with other systems and introduce the basic functionality of it. It will also describe what functionality of system. At last, the constraints and assumptions for the system will be presented.

PROBLEM STATEMENT

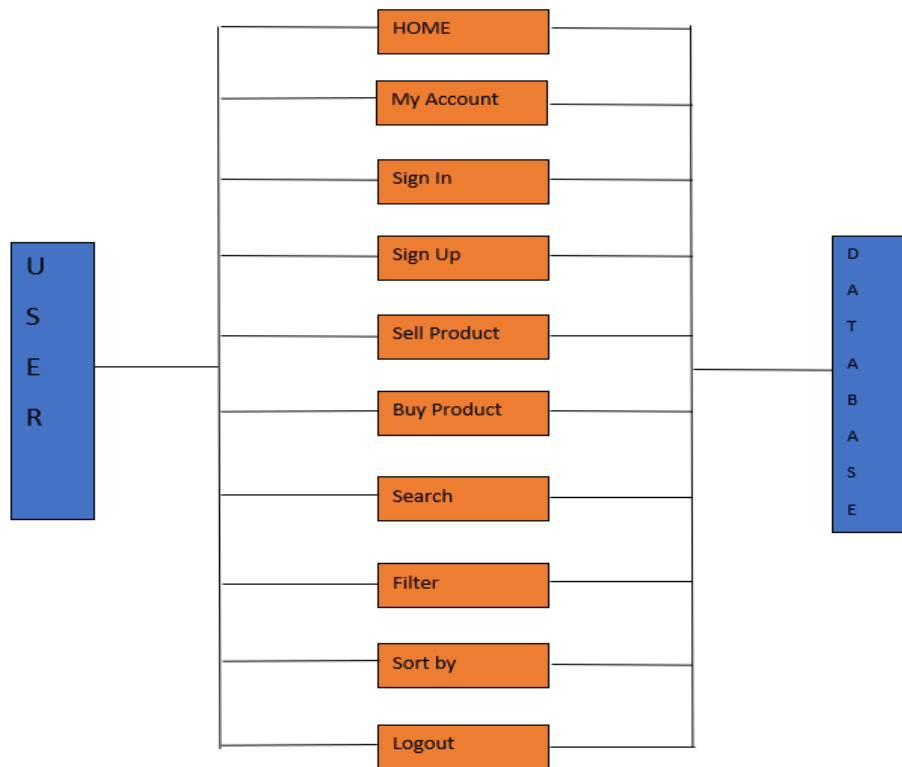
There is lot of wastage of resources, if one person doesn't needs a product any longer and other wants to buy the same product then without wasting the resources (i.e. buying newer one) he can buy the second hand product from our web portal.

If a person cannot afford new products then they can also think of buying old products from our portal

2.1 PRODUCT PERSPECTIVE

This system will consist of web portal. The portal will facilitate the users to buy or sell a product online.

The web portal will need to communicate to a database as we need to store data somewhere.



2.1.1 System Interfaces

Apache will be used as web server. The user inputs data via the web server using HTML forms. The actual program that will perform the operations is written in nodejs.

2.1.2 User Interfaces

The new system shall provide a very intuitive and simple interface to the user. A first-time user should see the log-in page when he/she opens the portal. If the user has not registered, he/she should be able to do that on the sign-up page.

After login user can look for products.

Every user should have a profile page.

There is also a filtering option, where the user can choose to filter the results by increasing or decreasing the price or distance range

- a) Front-end software: HTML,CSS,BOOTSTRAP,
- b) Back-end software: nodejs
- c) Database software: MongoDB

2.1.3 Hardware Interfaces

Since the web portal doesn't have any designated hardware, it does not have any direct hardware interfaces. The hardware connection to the database server is managed by the underlying operating system.

2.1.4 Software Interfaces

- a) Server side
A database will be hosted centrally using MongoDB.
- b) Client side
An OS which is capable of running a modern web browser which supports JavaScript and HTML5

2.1.5 Communication Interfaces

The HTTP or HTTPS protocol(s) will be used to facilitate communication between the client and server.

2.2 PRODUCT FUNCTIONS

System is developed to facilitate the users to buy or sell a product online, here user can also advertise their product online for free. User can search for a wide range of products from this system.

Cheap deals and better prices are available online, because products come to you direct from the manufacturer or seller without middleman being involved

2.3 USER CHARACTERISTICS

There are two types of users that interact with the system: Buyers and Sellers. Each of these two types of users has different use of the system so each of them has their own requirements. This means that the user have to be able to search for products, choose a product from that search and then navigate to it. In order for the users to get a relevant search result there are multiple criteria the users can specify and all results matches all of those. Sellers will manage the information about their product, for example a description of the product and contact information.

2.4 CONSTRAINTS

- a) Using this system is fairly simple and intuitive. A user familiar with basic browser navigation skills should be able to understand all functionality provided by the system.
- b) The system should work on most home desktop and laptop computers which support JavaScript and HTML5.

2.5 ASSUMPTIONS AND DEPENDENCIES

One assumption is the online transaction which we will not be implementing in real manner. Our system focuses on the features which are most important to the users.

3. SPECIFIC REQUIREMENTS

3.1 FUNCTIONAL REQUIREMENTS

3.1.1 Home

When the user will enter the URL of the portal the user will either sign in if he already has an account or else the user has to sign up.

3.1.2 Sign in and Sign Up

Sign Up: Initially the user will have to sign up with Name, Password, Address, and basic details. After Signing up the user will sign in to the account.

Sign-in: The sign-in would require a user id and password to sign in to the account.

Only after the user is verified he/she will be able to have access to the account.

The Password would be masked in both cases.

3.1.3 My Account

After signing in the user will be able to view the orders and products the user has added for sale.

The user will be able to change his/her password and edit the details of a product for sale.

3.1.4 Buy and Sell Products

After the user is logged in the user will be able to buy and sell products.

Sell: The user will be able to post a photo along with details and price which will be visible on the portal for sale later.

Buy: The user will be able to buy and place an order for various products on the portal and will be able to see specifications and details of the product.

3.1.5 Search, Filter, Sort by

While buying a product the user will be able to view products based on a particular category or name.

Users will also be able to filter based on interests and sort by price from low-high or high-low.

3.2 PERFORMANCE REQUIREMENTS

The system should support at least 100 concurrent users. This statement provides a general sense of reliability when the system is under load. It is important that a substantial number of users be able to access the system at the same time. The search feature should be prominent and easy to find for the user. The search should be fast.

3.3 LOGICAL DATABASE REQUIREMENTS

All data will be saved in the database: user accounts and products. The database allows concurrent access and will be kept consistent at all times, requiring a good database design.

3.4 DESIGN CONSTRAINTS

The portal layout will be produced with HTML/CSS.

Backend will be in node.js

The communication between the portal software and the database will be in MongoDB.

3.5 SOFTWARE SYSTEM ATTRIBUTES

The requirements in this section specify the required reliability, availability, security and portability of the software system.

3.5.1 Reliability

The reliability that the system gives the right result on a search.

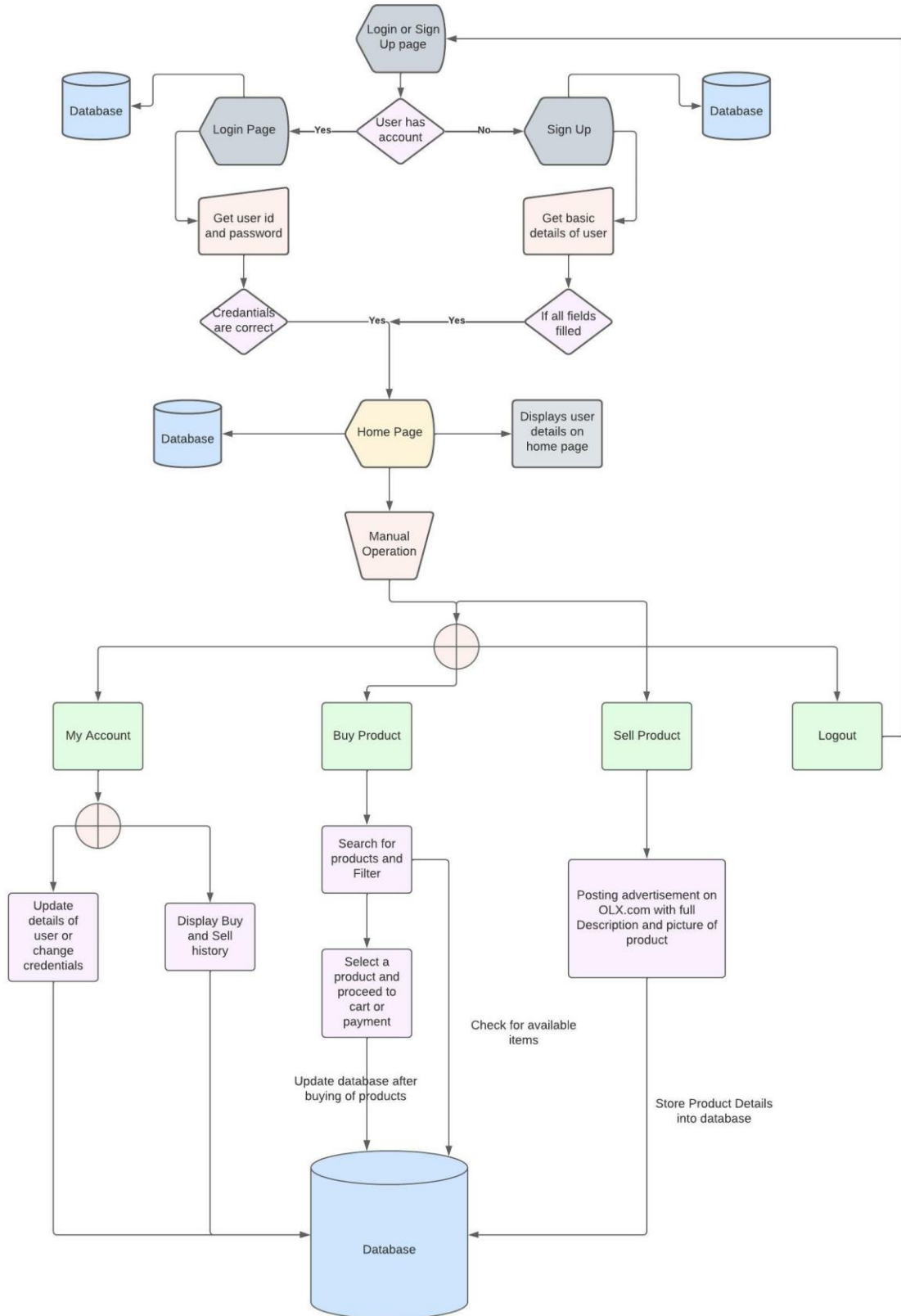
3.5.2 Availability

The average system availability.

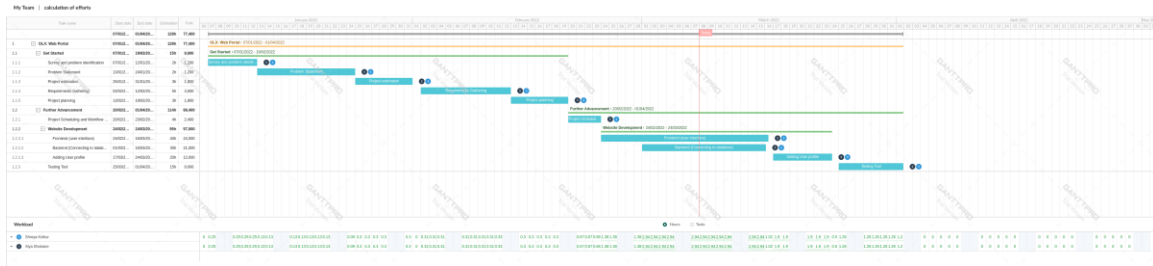
3.5.3 Security

Passwords will be saved encrypted in the database in order to ensure the user's privacy.

4. SUPPORTING INFORMATION.



Software Requirements Specification



DOCUMENT CONTROL

CHANGE HISTORY

Revision	Release Date	Description [list of changed pages and reason for change]

DOCUMENT OWNER

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