

# **Software Requirements Specification Document for LocalShopee**

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# **1 Introduction**

## **1.1. Purpose**

This document is meant to detail the features of the software being developed, this is used as a guide for the developers and a software validation document for the clients to check if all the requirements have been satisfied after the development of the software.

## **1.2. Scope**

This system allows customers to buy products online from the local shops and the product will reach them on the same day on which they have made their purchase.

## **1.3. Product perspective**

### **1.3.1 System interfaces**

This is a web application that runs in the latest version of Chrome, Firefox or any web browser on Windows, Linux and Mac.

### **1.3.2 User interface**

The application user interface has menus, toolbars, buttons, text boxes, hyperlinks allowing the user to control the application with the help of a mouse and keyboard.

1. Login Page
2. Registration page
3. Page displaying the products that are available in the nearby shops.
4. If the customers select a product the details of the product will be displayed with the option to add to cart or buy now.
5. The details of the payment including the amount will be displayed and will be sent to the customer via their registered email address.

### **1.3.3 Hardware interface**

The system needs a proper internet connection for the web application to work properly.

### **1.3.4 Software interface**

The system works on a client-server manner. Communication with the server is done with the help of scripting language PHP. It also requires Data Base for the storage of details of the customer's and the details of the shops and also the products for that we use MYSQL. DNS is used for the purpose of naming the application on the internet.

### **1.3.5 Communications interface**

The communication architecture follows the client server model. Communication between the client and server should be served over HTTPS. The communication must follow stateless protocol.

### **1.3.6 Memory constraints**

This application needs only a minimal amount of memory for storage and processing.

## **1.4 Product Function**

This web application is used mainly to reduce the delay that happens when we order an item online. As we are not able to get the item on the same day of purchase its really a inconvenience, so in order to reduce that we can purchase the items from the local market and can deliver it to the customers on the day on which they have made the purchase. Some of the main functions of this application is listed below

### **1.4.1 Customer Sign-Up**

### **1.4.2 Shop owner Sign-Up**

### **1.4.3 Add items needed to cart**

### **1.4.3 Add item details**

### **1.4.4 Add delivery details**

### **1.4.5 Payment**

### **1.4.6 Login for customer/shop owner**

### **1.4.7Add details about the shop**

## **1.5 User characteristics**

The main users of this system are the customers. They create account for making purchases. The administrator is the one who controls the system rectifies the issues

that happens in between and also maintains the system to be active all the time. Then comes the vendors / shop owners who can add the products in their shop and make the customers purchase the products. The pre-requisite for all the users are they should be familiar with the terms like login, sign-up, add to cart etc.

## **1.6 Assumptions and dependencies**

For the smooth working of the software internet connection is must. The customers and the vendors should need a contact number for completing the registration and for the purpose of contacting for queries.

## **1.7 Acronyms and abbreviations**

We use bold letters to represent the main functions of the system. The underline will represent a hyperlink. Italics represents notes. We will be using some of the acronyms throughout this document. Below shown are the abbreviations and definitions of some terms used in this document.

### **1.7.1 Admin**

Admin is the person who has full control over the web application and he/she is responsible for managing the functions in the system.

### **1.7.2 Database**

Database is the storage space for storing all the information related to the web application in tabular format.

### **1.7.3 Field**

A field is a cell inside a form.

## **2 Requirements**

### **2.1 External Interfaces**

There are many interfaces related to software in software engineering. Some of the important interfaces are User Interface, Software Interface and Hardware Interface.

#### **2.1.1 User Interfaces**

User interface is the page with which the customer interact which is build using HTML and Php. The forms that user interact is designed using HTML.

#### **2.1.2 Hardware Interfaces**

The local address of the system will be in IPV6 format.



### **2.1.3 Software Interface**

The system must interact with the configurator to identify all available components. The system should communicate with the content manager to obtain product specifications.

### **2.1.4 Communication Interface**

In communication interface we use the HTTPS which is the secured file transfer protocol used for communication between the client and the server. This project uses a client server architecture.

## **2.2 Functions**

### **2.2.1 Registration of customers**

Customers should add their details for registration like name, contact etc and also they should add the delivery details like address and contact number for delivery.

### **2.2.2 Registration of vendors**

Vendors should add their basic details and also the details of their shop including the account number to which the amount should be credited.

### **2.2.3 Login for Customers/Vendors**

Vendors and customers can login and vendors can add the product details. The customers can make a purchase and payment according to their need.

### **2.2.4 Viewing product details**

Customers can view the product details that he/she needs to buy. Its price and the review of other customers who brought this product from the shop will be shown there. They can add the quantity that they are planning to buy.

### **2.2.5 Adding products to cart**

Customer can add various products available in different shops to their cart. When they add the products the quantity they add and the amount of each product will be displayed and also the total amount that they need to pay will also be displayed.

### **2.2.6 Payment**

Payment methods can be selected by the customers according to their convenience. The different payment methods include cash on delivery, card payment or upi payment.

### **2.2.7 Adding product details**

Adding product details is the function done by the vendors. They can add the products in their shop and update the stock and also make changes in the details of the product.

### **2.2.8 Adding review**

Customers can add review about the product and also about the shop.

## **2.3 Usability requirements**

The software should be easy to use for all the users. The customer and vendors belong to different age group so for all the users different functions assigned to them should be easily accessible.

## **2.4 Performance requirements**

The performance of the software should not be slow the initial screen should load as fast as possible. There should not be any lagging in between the operations that are done behind the user interface.

## **2.5 Database requirements**

Database requirements include the store of data that comes from the software in a secure manner. All the confidential data related to the users should be kept in the database after encrypting the data. So that the data will be safe.

## **2.6 Design constraints**

Design include the budget for designing and also the time that is allocated for designing. The designing part of the software should be simple that is it should not effect the performance of the software like the time taken for loading a page should not increase. It should be attractive and also should be easy to maintain.

## **2.7 Software system attributes**

The application should run in latest chrome, fire fox or safari. It should not send any data to internet all the data should be kept confidential. It can analyze all the inputs made by the users.

## **3.Verification**

In verification we check all the above given requirements are completely present in the final product. All the functional and non-functional requirements are satisfied and also the product accomplishes the task for which the application was developed. The stake holders check if all the requirements listed by them are satisfied in the product.

## **4. References**

Software Requirements Specification Document for ReqView

<http://srs-onlineshopping.blogspot.com>