Software Requirement Specification (SRS) for Online Shopping System(OSS)

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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 Form

3). There will be a screen displaying information about product that the shop having.

4). If the customers select the buy button then another screen of shopping cart will be opened.

5). After ordering for the product the system will sent one copy of the bill to the customer's 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.

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 into cart

1.4.4 Add delivery details

1.4.5 Payment

1.4.6 Login for customer/shop owner

1.4.7 Add details about the shop

1.4.   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. User should be familiar with the terms like login, register ,order system etc.

1.5.　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.

1.6.　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 :

Hardware requirements for insurance on internet will be same for both parties which are as follows:

Processor :Dual Core

RAM:2 GB

Hard Disk:320 GB

NIC

:For each party

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 :

If customer wants to buy the product then he/she must be registered, unregistered user can't go to the shopping cart.

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 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.

2.2.4 Adding products to cart :

           Customer can add different products available in different shows 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.

2.2.5 Payment :

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

2.2.6 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.

2.2.7 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 :

In order to maintain an acceptable speed at maximum number of uploads allowed from a particular customer as any number of users can access to the system at any time. Also the connections to the servers will be based on the attributes of the user like his location and server will be working 24X7 times.

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

https://gyires.inf.unideb.hu/GyBITT/07/ch02s02.html#idp62427936