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

1. **Introduction**

1.1 Purpose:

This document is meant to delineate the features of OSS, so as to serve as a guide to the developers on one hand and a   software validation document for the prospective client on the other.

The Online Shopping System (OSS) for electronics item shop web application is intended to provide complete solutions for vendors as well as customers through a single get way using the internet.It will enable vendors to setup online shops, customer to browse through the shop and purchase them online without having to visit the shop physically. The administration module will enable a system administrator to approve and reject requests for new shops and maintain various lists of shop category.

1.2 Scope:

This system allows the customer's to maintain their cart for add
or remove the product over the internet.

1.3 Definitions:

OSS- Online shopping System (for electronics item

shop)

SRS- Software Requirement Specification

GUI- Graphical User Interface

Stackholder- The person who will participate in system

Ex. Customer, Administrator, Visitor etc.

1.4 References:

1.5 <u>Overview:</u>

This system provides an easy solution for customers to buy the product without going to the shop and also to shop owner to sale the product.
This proposed system can be used by any naïve users and it does not require any educational level,experience or technical expertise in computer field but it will be of good use if user has the good knowledge of how to operate a computer.

2.<u>Overall Description:</u>

The Online Shopping system (OSS) application enables vendors to set up online shops, customers to browse through the shops, and a system administrator to approve and reject requests for new shops and maintain lists of shop categories. Also the developer is designing an online shopping site to manage the items in the shop and also help customers to purchase them online without visiting the shop physically.The online shopping system will use the internet as the sole method for selling goods to its consumers.

2.1 <u>Product Perspective:</u>

This product aimed toward a person who don't want to visit
the shop as he might don't get time for that or might not interested in visiting there and dealing with lot of formalities.

2.2 <u>Product Functions:</u>

OSS should support this use case:

2.3 User Characeristics:
User should be familiar with the terms like login,register,order system etc.

2.4 Principle Actors:
2 Principle Actors are Customer and Administrator.

2.5 General Constraints:
A full internet connection is required for OSS.

2.6 Assumptions and Dependencies:
Working of OSS need Internet Connection.

3. Specific Requirements:

3.1 Functional Requirements:
This section provides requirement overview of the system.
Various functional modules that can be implemented by the system   will be -

3.1 Description:

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

3.1.2 Login
Customer logins to the system by entering
valid user id and password for the
shopping.

3.1.3 Changes to Cart
Changes to cart means the customer after
login or registration can make order or
cancel order of the product from the
shopping cart.

3.1.4 Payment
In this system we are dealing the mode of payment by Cash.We will
extend this to credit card,debit card etc in the future.

3.1.5 Logout
After ordering or surfing for
the product   customer has to logout.

3.1.6 Report Generation
After ordering for the product,the system
will sent one copy of the bill to the
customer's Email-address and another one
for the system data base.

3.2 Non-Functional Requirements:
Following Non-Functional Requirements will be there in the insurance to the internet:

(i)   Secure access to consumer's confidential data.
(ii)   24X7 availability**.**
(iii) Better component design to get better performance at peak time.
(iv) Flexible service based architecture will be highly desirable for future extension.Non-Functional Requirements define system properties and constraints.
Various other Non-Functional Requirements are:

- ➢ **Security**
- ➢ **Reliability**
- ➢ **Maintainability**
- ➢ **Portability**
- ➢ **Extensibility**
- ➢ **Reusability**
- ➢ **Compatibility**
- ➢ **Resource Utilization**

3.3 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.

3.4 Technical Issues:

This system will work on client-server architecture. It will require an internet server and which will be able to run PHP application. The system should support some commonly used browser such as IE, mozzila firefox,chrome etc.

4. Interface Requirement:

Various interfaces for the product could be-

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 copyof the bill to the customer's Email-address

Software Interface:

1.Operating System:Windows7 Ultimate which supports networking.

2.JAVA development toolkit.

Hardware Interface:
   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
Communication Interfaces:
    The two parties should be connected by LAN or
WAN for the communication purpose.

SENDER	Communication c	RECEIVER

5.System Design Specification:
## 5.1 Architecture Design:
   5.1.1 Data Flow Diagram(DFD):
   It is a way of representing system requirements in
   graphical form;this led to modular design.A DFD
   describes a data flow(logical) rather than how they are
   processed.So they do not depend upon
   software,hardware,data structure or file organization.It
   is also known as 'bubble sort'.

   A DFD is a structured analysis and a design tool that
   can be used for flowcharting in place of ,or in
   association with ,information-oriented and process-
   oriented system flowcharts.
   A DFD is considered as an abstract of the logic of
   information-oriented or process-oriented system
   flowchart.The four basic symbols used to construct data
   flow diagrams are-
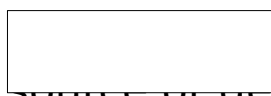
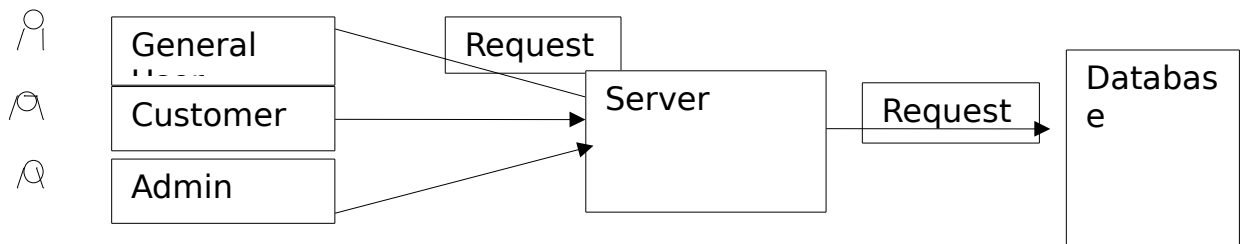   A rectangle represents a data
source or destination.

A directed line represents flow of data.
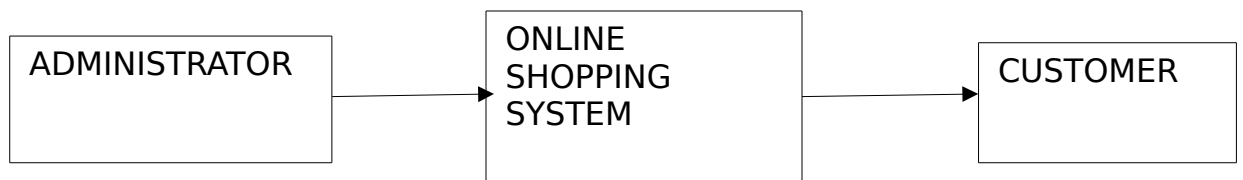
An Oval represents a process that ...s into streams.

An Open ended rectangle represents storage.

The points at which data is transformed are called as nodes.The principle processes that take place at nodes are:

1.Combining data streams
2.Splitting data streams
3.Modifiying data streams

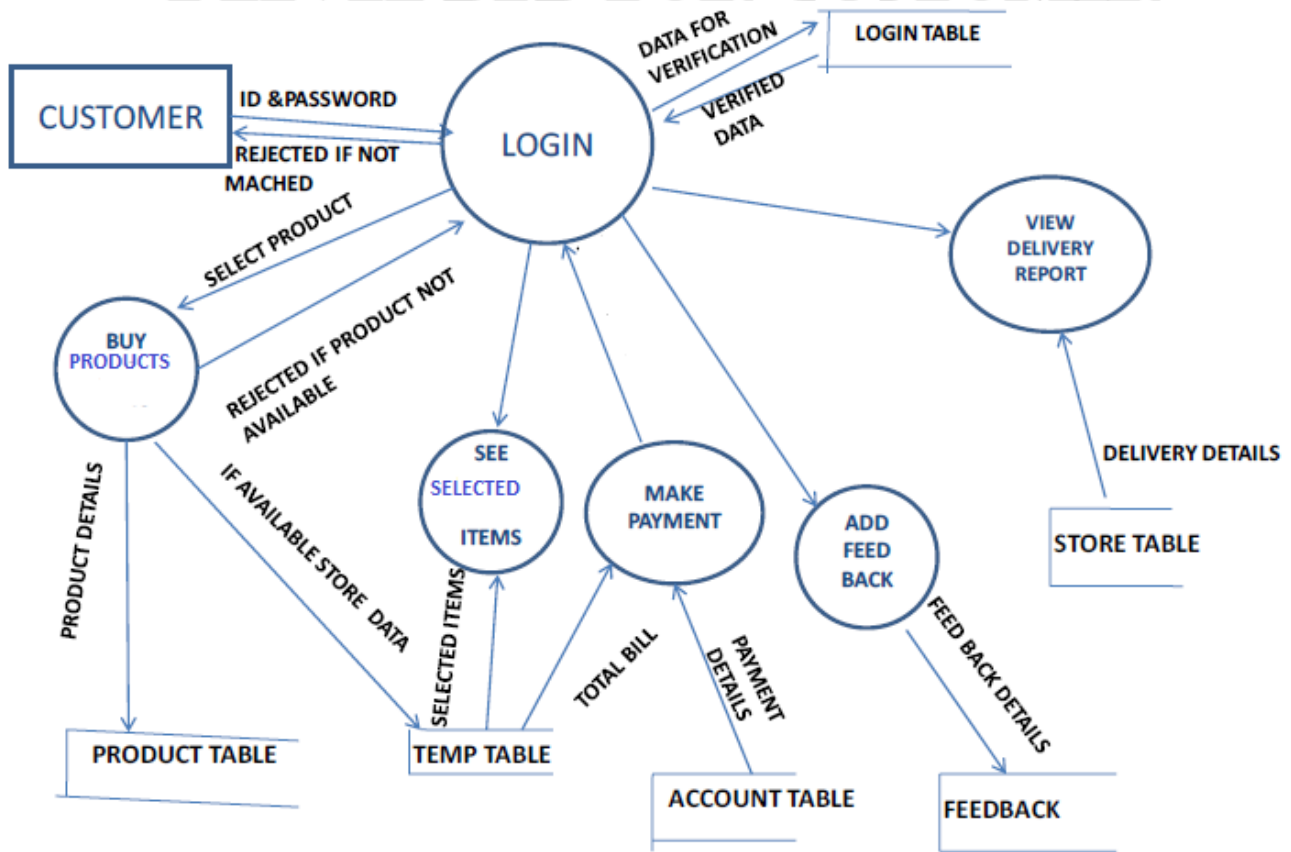| General User		Request		Databas e
Customer		Server	Request	
Admin				

CONTEXT ANALYSIS DIAGRAM(CAD)

ADMINISTRATOR	ONLINE SHOPPING SYSTEM	CUSTOMER

1 LEVEL DFD FOR ADMIN

1 LEVEL DFD FOR CUSTOMER

CUSTOMER

LOGIN

LOGIN TABLE

ID &PASSWORD

DATA FOR VERIFICATION

VERIFIED DATA

REJECTED IF NOT MACHED

SELECT PRODUCT

REJECTED IF PRODUCT NOT AVAILABLE

BUY PRODUCTS

PRODUCT DETAILS

IF AVAILABLE STORE DATA

SEE SELECTED ITEMS

MAKE PAYMENT

ADD FEED BACK

VIEW DELIVERY REPORT

DELIVERY DETAILS

STORE TABLE

SELECTED ITEMS

TOTAL BILL

PAYMENT DETAILS

FEED BACK DETAILS

PRODUCT TABLE

TEMP TABLE

ACCOUNT TABLE

FEEDBACK

E-R DIAGRAM

PROD_NAME

PRICE

PRO_ID

QUANTITY

PRODUCT

BUY PRODUCT

PHONE_NO

USER_NAME

GENDER

USER_ID

CUSTOMER
DETAILS

E_mail add

DOB

ADDRESS

MAKE PAYMENT

FEEDBACK

DELIVERY