Software Requirement Specification(SRS) for Grocery delivery website.

Introduction

1 .1 purpose

This document is meant to delineate the features of Grocery delivery website 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 Grocery delivery is 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 to approve and reject requests for new shops and maintain various lists of shop categories.

1 .2 Scope:

This system allows the customers to maintain their cart to add or remove the product over the internet.

1 .3 Definition:

SRS- Software Requirement Specification

GUI- Graphical User Interface

Stockholder- The person who will participate in system

Ex. Customer, Administrator, Visitor etc.

1 .4 Overview:

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

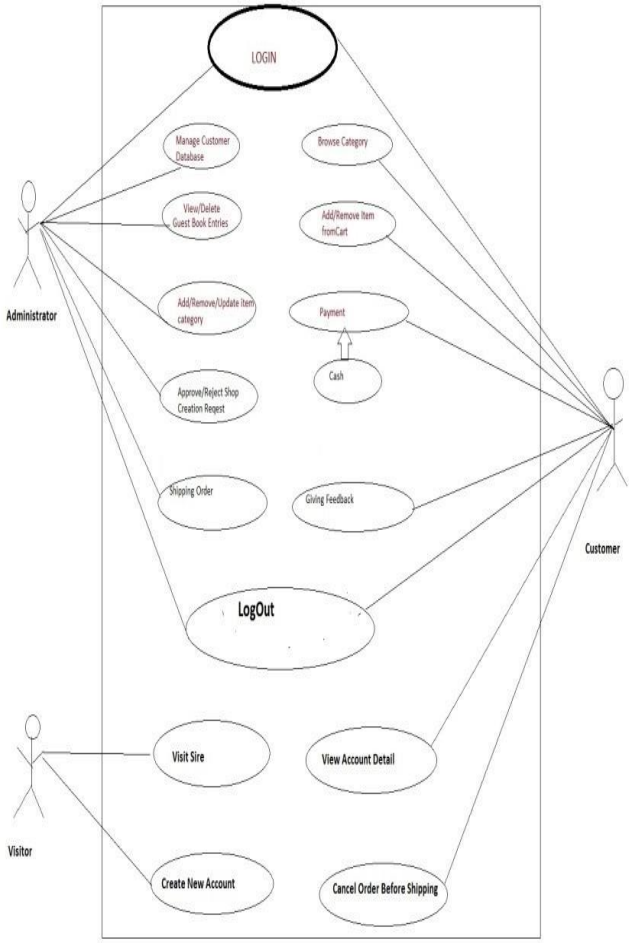
2.Overall Description:

The Grocery delivery website 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 a Grocery delivery 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 Product Perspective:

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

2.2 Product Function



Use case

2.3 User Characteristics:

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

2.4 Principle Actors:

Principle Actors are Customer and Administrator.

2.5 General Constraints:

A full internet connection is required for grocery delivery websites.

2.6 Assumptions and Dependencies:

Working on a grocery delivery website requires Internet Connection.

3. Specific Requirements:

Functional Requirements:

This section provides a 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 and unregistered users 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 products customer has to logout.

3.1.6 **Report Generation**

After ordering the product, the system will send one copy of the bill to the customer's Email-address and another one for the system database.

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**

3.2 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.

3.3 Technical issues:

This system will work on client-server architecture. It will require an internet server, which will be able to run PHP applications. The system should support some commonly used browsers such as IE, Mozilla Firefox, chrome etc.

4. Interface Requirements:

Various interfaces for the product could be-

1). Login Page
2). Registration Form
3). There will be a screen displaying information about products that the shop has. 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 send one copy of the bill to the customer's Email address

Software Interface:

1.Operating System: Windows11 Ultimate which supports networking.
2.JAVA development toolkit.

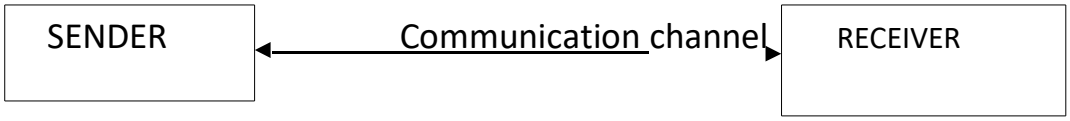
Hardware Interface:

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 communication purposes.



5. System Design Specification:

5.1.1Architecture 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.

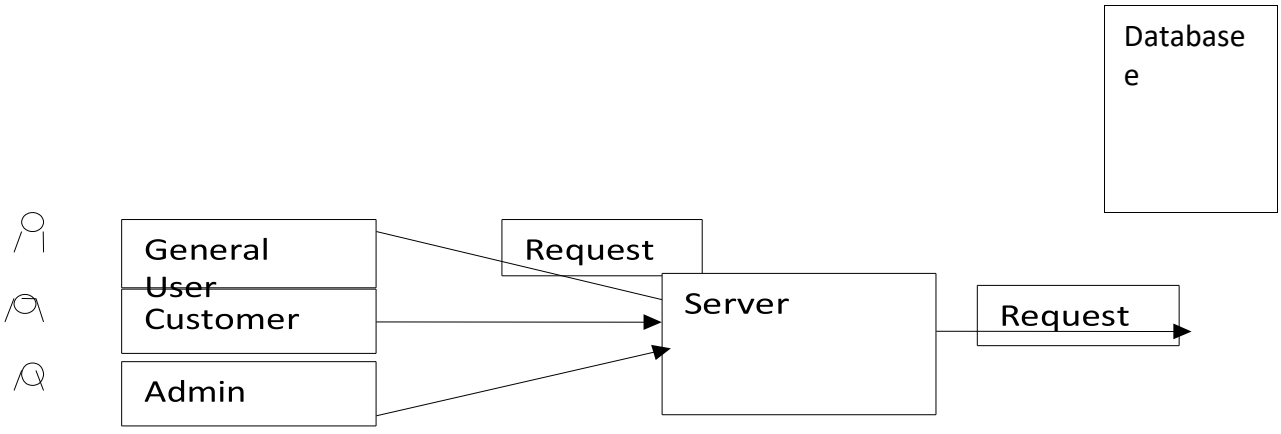
A directed line represents the flow of data.

An Oval represents a process that transforms into stream

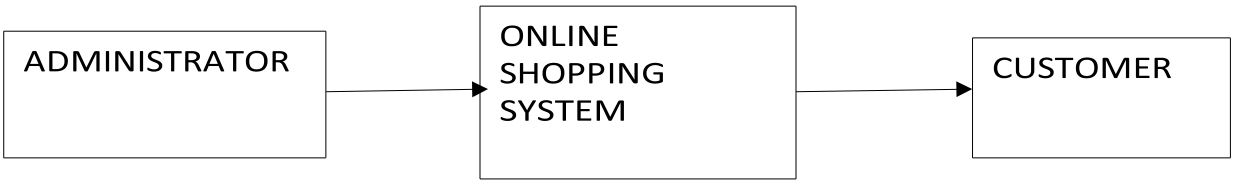
An Open-ended rectangle represents storage.

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

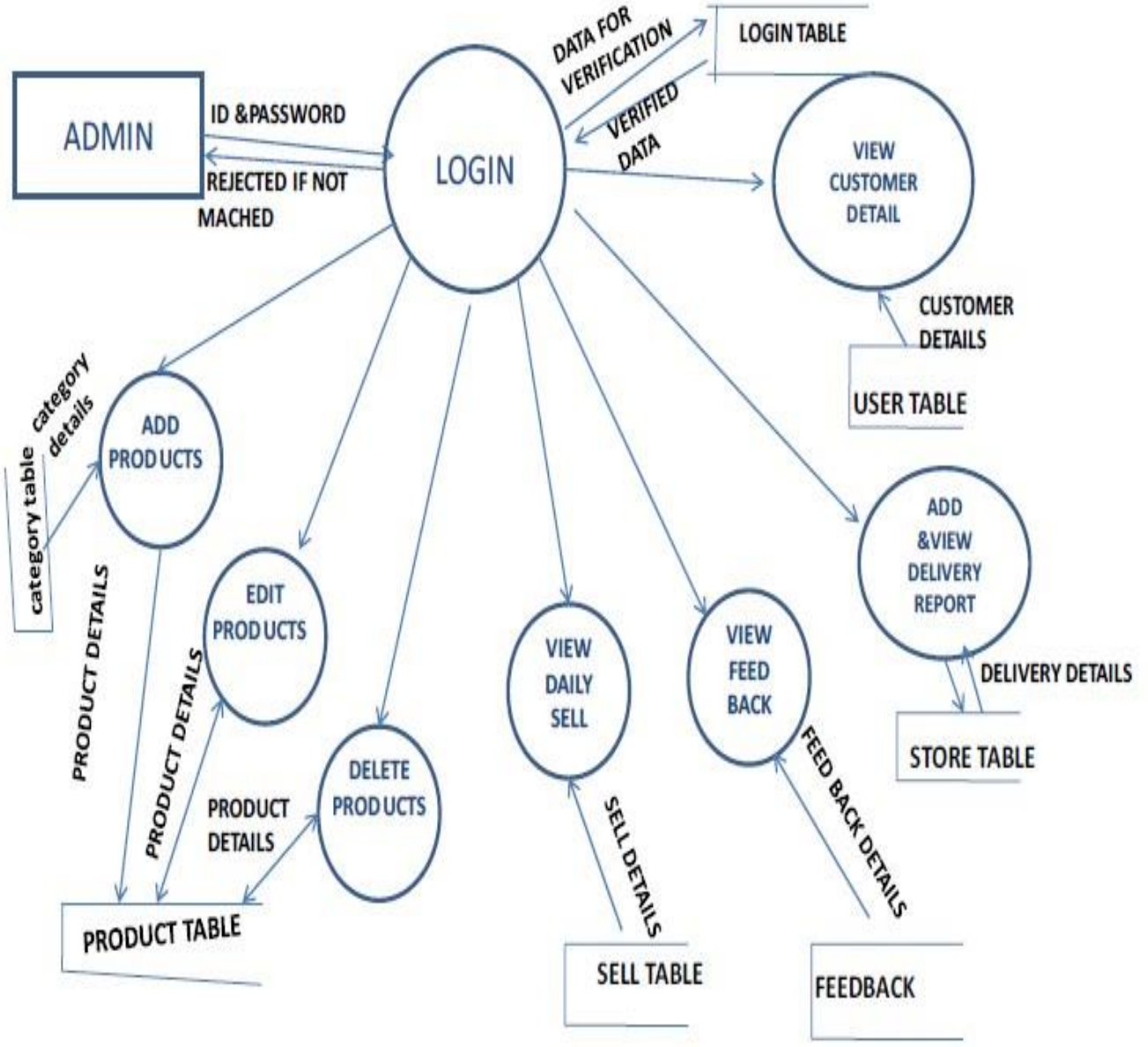
1.Combining data streams
2.Splitting data streams
3.Modifiying data streams



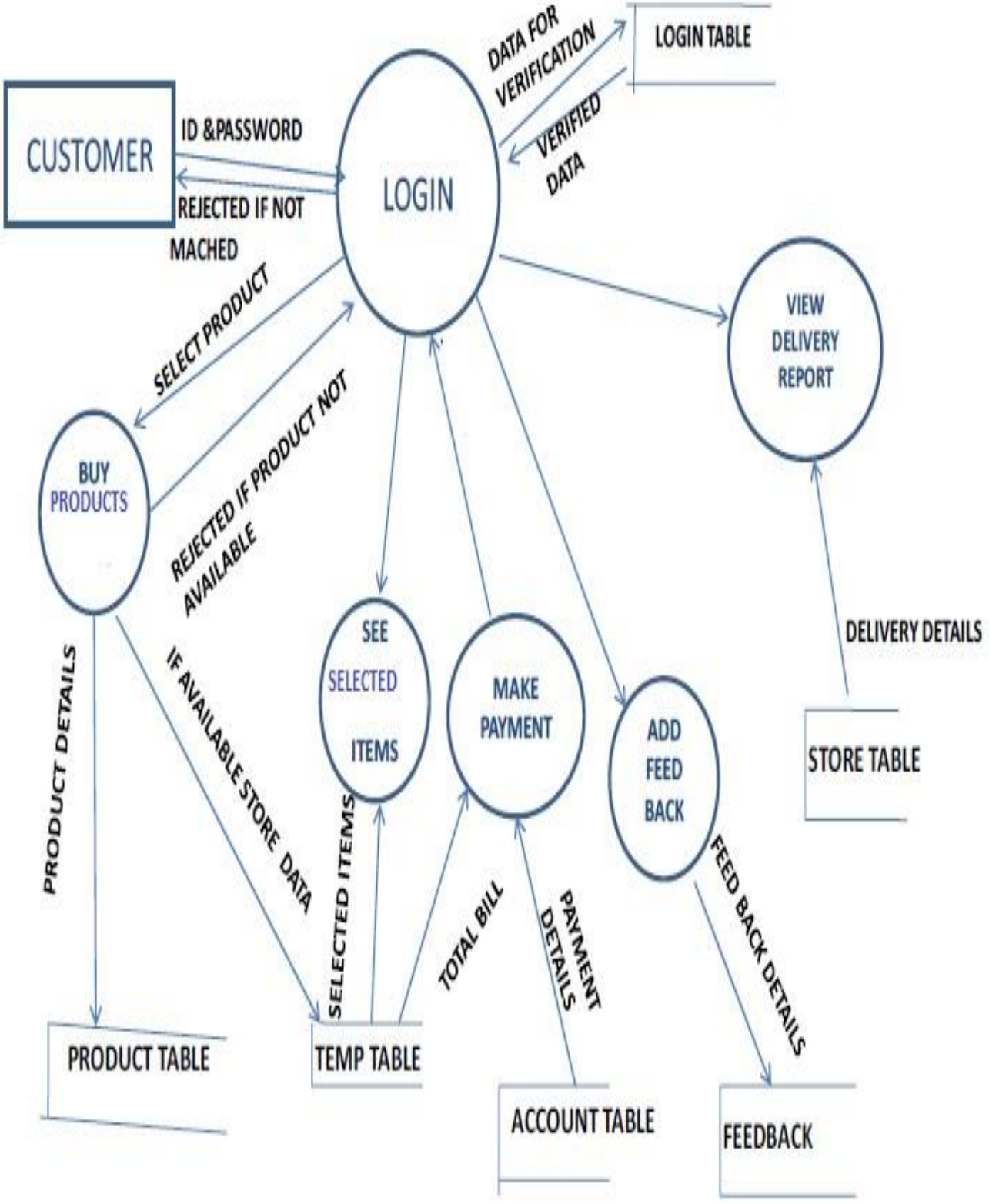
CONTEXT ANALYSIS DIAGRAM(CAD)


ADMINISTRATOR
ONLINE
SHOPPING
SYSTEM
CUSTOMER

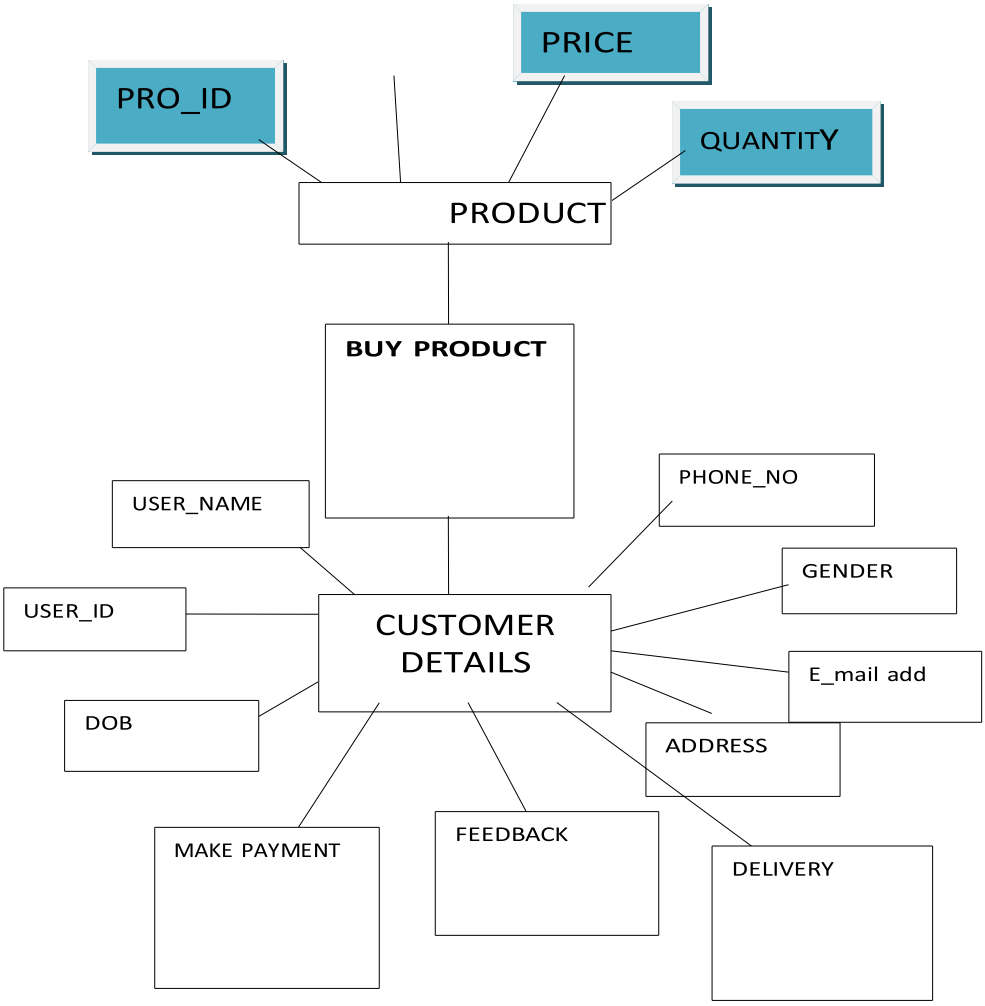
1 LEVEL DFD FOR ADMIN



1 LEVEL DFD FOR CUSTOMER



E-R DIAGRAM



PROD_NAME