

# Project Report

On

## **E-COMMERCE ONLINE DIGITAL DOWNLOADING STORE**

Submitted to:

**SHAHEED BHAGAT SINGH STATE UNIVERSITY, FEROZEPUR**

**POLYWING**

In the partial fulfillment of the requirement for the degree of

**DIPLOMA**

(Computer Science & Engineering)

**(Session-2019-2022)**



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## **ABSTRACT**

The Project entitled "E-COMMERCE ONLINE DIGITAL DOWNLOADABLE STORE" is a web-based application Software developed in WordPress using HTML5, CSS. The main aim of "E-COMMERCE ONLINE DIGITAL DOWNLOADABLE STORE" is to improve the services of Customers and vendors. It maintains the details of customer payments, product receipts, addition of new customers, products and also updating, deletion for the same. It also stores the details of invoices generated by customer and payments made by them with all Payments details like credit card. The primary features of the project entitled "ONLINE DIGITAL DOWNLOADING SHOPPING" are high accuracy, design flexibility and easy availability. And also, it uses database tables Representing entities and relationships between entities.

# INDEX

## **1. INTRODUCTION**

### 1.1 PROJECT OVERVIEW

### 1.2 SCOPE OF PROJECT

### 1.3 PURPOSE OF PROJECT

### 1.4 PROPOSED SYSTEM

## **2.FEASIBILITY ANALYSIS**

### 2.1 TECHNICAL FEASIBILITY

### 2.2 ECONOMICAL FEASIBILITY

### 2.3 OPERATIONAL FEASIBILITY

## **3. HARDWARE AND SOFTWARE REQUIREMENTS**

### 3.1 HARDWARE

### 3.2 SOFTWARE

## **4.SYSTEM STUDY**

### 4.1DEFINATION OF SYSTEM

### 4.2 NEEDS OF SYSTEM

### 4.3SYSTEM ANALYSIS

## **5.PROJECT PLANING**

### 5.1 PRILIMINARY INVESTIGATION

### 5.2 INFORMATION GATHERING

### 5.3 STRUCTURED ANALYSIS

## **6. SYSTEM DESIGN**

### 6.1USE CASE DIAGRAM

### 6.2DATA FLOW DIAGRAM

### 6.3CLASS DIAGRAM

### 6.4 E-R DIGRAM

## **7. SCREENSHOTS**

### 7.1ADMIN PANEL

### 7.2E-COMMERCE STORE (USER MODULE)

## **8. DATA DICTIONARY**

## **9. INTERPRETATION OF PROJECT**

### 9.1ADVANTAGES

## **10.CONCLUSION**

## 11.REFERENCE & BIBLIOGRAPHY

## 12.ABOUT TOOLS & TECHNOLOGY

### LIST OF TABLES Table

#### 8.1. ADMINS

#### Table.8.2. CART

#### Table.8.3. CATAGORIES

#### Table.8.4. CUSTOMER

#### Table.8.5. CUSTOMER\_ORDER

#### Table.8.6. PENDING\_ORDER

#### Table.8.7. PRODUCTS

#### Table.8.8. PRODUCT\_CATAGORIES

### LIST OF FIGURES

#### Fig.6.1.USE CASE DIAGRAM

#### Fig.6.2.DATA FLOW DIAGRAM

#### Fig.6.3.CLASS DIAGRAM

#### Fig.6.4.1. CUSTOMER ENTITY

#### Fig.6.4.2. PRODUCT ENTITY

### TABLE OF IMAGES

#### 7.1 ADMIN PANEL:

##### Fig.7.1.1 Admin Panel

##### Fig.7.1.2 Dashboard

##### Fig.7.1.3 view products

##### Fig.7.1.4 view customers

##### Fig.7.1.5 view product categories

##### Fig.7.1.6 view Order

##### Fig.7.1.7 insert product

##### Fig.7.1.8 insert product category

##### Fig.7.1.9 View Categories

##### Fig.7.1.10 View payment

##### Fig.7.1.11 insert user

##### Fig.7.1.12 View product

Fig.7.1.13 Edit Profile

## 7.2 E-COMMERCE STORE (USER MODULE):

Fig.7.2.1 View product

Fig.7.2.2 Register

Fig.7.2.3 Login

Fig.7.2.4 My Account

Fig.7.2.5 My Account

Fig.7.2.6 Pay Offline

Fig.7.2.7 Edit Account

Fig.7.2.8 Change Password

Fig.7.2.9 Delete Account

Fig.7.2.10 Shopping Cart

Fig.7.2.11 Checkout

Fig.7.2.12 Shopping Cart

Fig.7.2.12 Contact us

# 1. INTRODUCTION

## 1.1 OVERVIEW:

The central concept of the application is to allow the customer to shop virtually using the Internet and allow customers to buy the items and articles of their desire from the store. The information pertaining to the products are stores on an MYSQL at the server side (store). The Server process the customers and the items are shipped to the address submitted by them. The application was designed into two modules first Os for the customers who wish to buy the articles. Second is for the storekeepers who maintains and updates the information pertaining to the articles and those of the customers? The end user of this product is a departmental store where the application is hosted on the web and the administrator maintains the database. The application which is deployed at the customer database, the details of the items are brought forward from the database for the customer view based on the selection through the menu and the database of all the products are updated at the end of each transaction. Data entry into the application can be done through various screens designed for various levels of users. Once the authorized personnel feed the relevant data into the system, several reports could be generated as per the security.

## 1.2 SCOPE OF PROJECT:

Purchasing and selling products and services over the internet without the need of going physically to the market is what online shopping all about. Online shopping is just like a retail store shopping that we do by going to the market, but it is done through the internet. Online shopping has made shopping painless and added more fun. Online stores offer product description, pictures, comparisons, price and much more. Few examples of these are Amazon.com, ebay.com, framt.com and the benefits of online shopping is that by having direct access to consumer, the online stores can offer products that cater to the needs of consumer, cookies can be used for tracking the customer selection over the internet or what is of their interest when they visit the site again. Online shopping makes use of digital technology for managing the flow of information, products, and payment between consumer, site owners and suppliers. Online shopping can be either B2B (business to business) or B2C (business to consumer)

Shopping cart is one of the important

facilities provided in online shopping, this lets customer to browse different goods and services and once they select an item to purchase they can place the item in shopping cart, and continue browsing till the final selection. Customers can even remove the items from shopping cart that were selected earlier before they place the final order. It reminds us of shopping basket that we carry in departmental store

### **1.3 PURPOSE OF PROJECT:**

The purpose of online digital downloadable shopping is to save time, save money. Through online digital downloadable shopping one can save his valuable time. One can watch and select things want to buy. No need to go anywhere and do digital downloading shopping. We can get different varieties of things online and we can choose which one we want.

- 1) To achieve target many people use this site for own benefits
- 2) To offer a quality experience for customers that matches the aspirations of a customer.

Online shopping is a form of electronic commerce where the buyer is directly online to the seller's computer usually via the internet. There is no intermediary service. The sale and purchase transaction is completed electronically and interactively in real-time such as Amazon.com for new books. If an intermediary is present, then the sale and purchase transaction is called electronic commerce such as eBay.com.

### **1.4 Proposed System:**

The development of this new system contains the following activities, which try to develop online application by keeping the entire process in the view of database integration approach. • Secure registration and profile management facilities for Customers. • Browsing through the e-Mall to see the items that are there in each category of products like E-book ,lecture notes, question paper collage wise ,software download etc. • Creating a Shopping cart so that customer can Shoppe 'n' no. of items and checkout finally with the entire shopping cart • Customers should be able to mail the Shop about the items they would like to see in the Shop • Secured mechanism for checking out from the Shop( Credit card verification mechanism) • Updates to customers about the Recent Items in the Shop. •

## **2. FEASIBILITY ANALYSIS**

Feasibility study is the process of determination of whether or not a project is worth doing. Feasibility studies are undertaken within tight time constraints and normally culminate in a written and oral feasibility report. I have taken two weeks in feasibility study with my other co-developer. The contents and recommendations of this feasibility study helped us as a sound basis for deciding how to proceed the project. It helped in taking decisions such as which software to use.

1) Technical Feasibility

2) Economical Feasibility

3) Operational Feasibility

### **2.1 TECHNICAL FEASIBILITY:**

Technical feasibility determines whether the work for the project can be done with the existing equipment, software technology and available personnel. Technical feasibility is concerned with specifying equipment and software that will satisfy the user requirement.

This project is feasible on technical remarks also, as the proposed system is more beneficiary in terms of having a sound proof system with new technical components installed on the system. The proposed system can run on any machines supporting Windows and Internet services and works on the best software and hardware that had been used while designing the system so it would be feasible in all technical terms of feasibility

### **2.2 ECONOMICAL FEASIBILITY:**

Economical feasibility determines whether there are sufficient benefits in creating to make the cost acceptable, or is the cost of the system too high. As this signifies cost-benefit analysis and savings. On the behalf of the cost-benefit analysis, the proposed system is feasible and is economical regarding its pre-assumed cost for making a system. We classified the costs of e-shop according to the phase in which they occur. As we know that the system development costs are usually one-time costs that will not recur after the project has been completed. For calculating the Development costs we evaluated certain cost categories viz.

1. Personal costs

2. Computer usage

3. Supply and equipment costs

4. Cost of any new computer equipment's and software

### **2.3 OPERATIONAL FEASIBILITY:**

It is mainly related to human organization and political aspects. The points to be considered are:

- What changes will be brought with the system?



### **3. SOFTWARE & HARDWARE REQUIREMENT**

#### **3.1 Software Requirements:**

Operating System:	Windows XP/7/10 or Linux
User Interface:	HTML, CSS
Front End:	WordPress
Back End:	PHP MYSQL

#### **3.2 Hardware Requirements:**

Processor:	Intel Pentium IV
Hard Disk:	1.44 MB FDD RAM: 512MB or more
Monitor:	1 5" Colour monitor
Processor Speed:	1.7 GHZ
CD Drive:	52-X CD ROM
Keyboard:	Mercury 1 10 keys
Mouse:	Logitech mouse

## **4. SYSTEM STUDY**

### **4.1 DEFINITION OF THE SYSTEM**

A system is an orderly grouping of independent components linked together according to a plan to achieve a specific objective. Its main characteristics are organization, interaction, independent, integration and central objective a system does not necessarily mean to a computer system. It may be a manual system or any other names.

### **4.2 NEEDS OF THE SYSTEM**

Social and economic factor: a wave of social and economic changes often follows in the wake of the new technology. New opportunities may arise to improve on a production process or to do something that was not previously possible. Changes in the way's individuals are organized into groups may then be necessary, and the new groups may complete for economic resources with established units.

Technological factor: people have never before in a time when the scope of scientific inquiry was so broad, so when the speed of applying the new technology accounts for many changes in the organization.

High level decisions and operating processes: in response to technological, socio-economic factors, top level managers may decide to recognize operations and introduce new products. To deal with these needs, people commonly seek new modified information to support the decision. When that happens, then they obtain turn to a computer system for help the information users and data processing specialist then work together to complete a series of steps in a system study to produce output results to satisfy information needs.

### **4.3 System analysis**

System Analysis is a process by which we attribute process or goals to a human activity, determine how well those purpose is being achieved and specify the requirements of the various tools and techniques that are to be used within the system if the system performances are to be achieved.

## **5. PROJECT PLANNING**

Planning for information systems has a time horizon and a focus dimension. The time horizon dimension specifies the time range of the plan, whereas the focus dimension relates whether the primary concern is strategic, managerial, or operational. The system i.e. The Project that we were assigned was required to complete within 20 weeks. What we had planned is as follows: Requirements analysis, Preliminary Investigation & Information Gathering should be covered within the 1st and 2nd week. Since I was not aware of WordPress and PHP with MySQL it requires 1 week for me to adjust with that. 12 Weeks for the design of the system under development. 1 week for Testing & Implementation. And rest 2 reserve weeks.

### **5.1 PRELIMINARY INVESTIGATION**

The initial investigation has the objective of determining the validity of the user's request for a candidate system and whether a feasibility study should be conducted. The objectives of the problem posed by the user must be understood within the framework of the organization's MIS plan. I had investigated from the concerned authority about the project.

### **5.2 INFORMATION GATHERING**

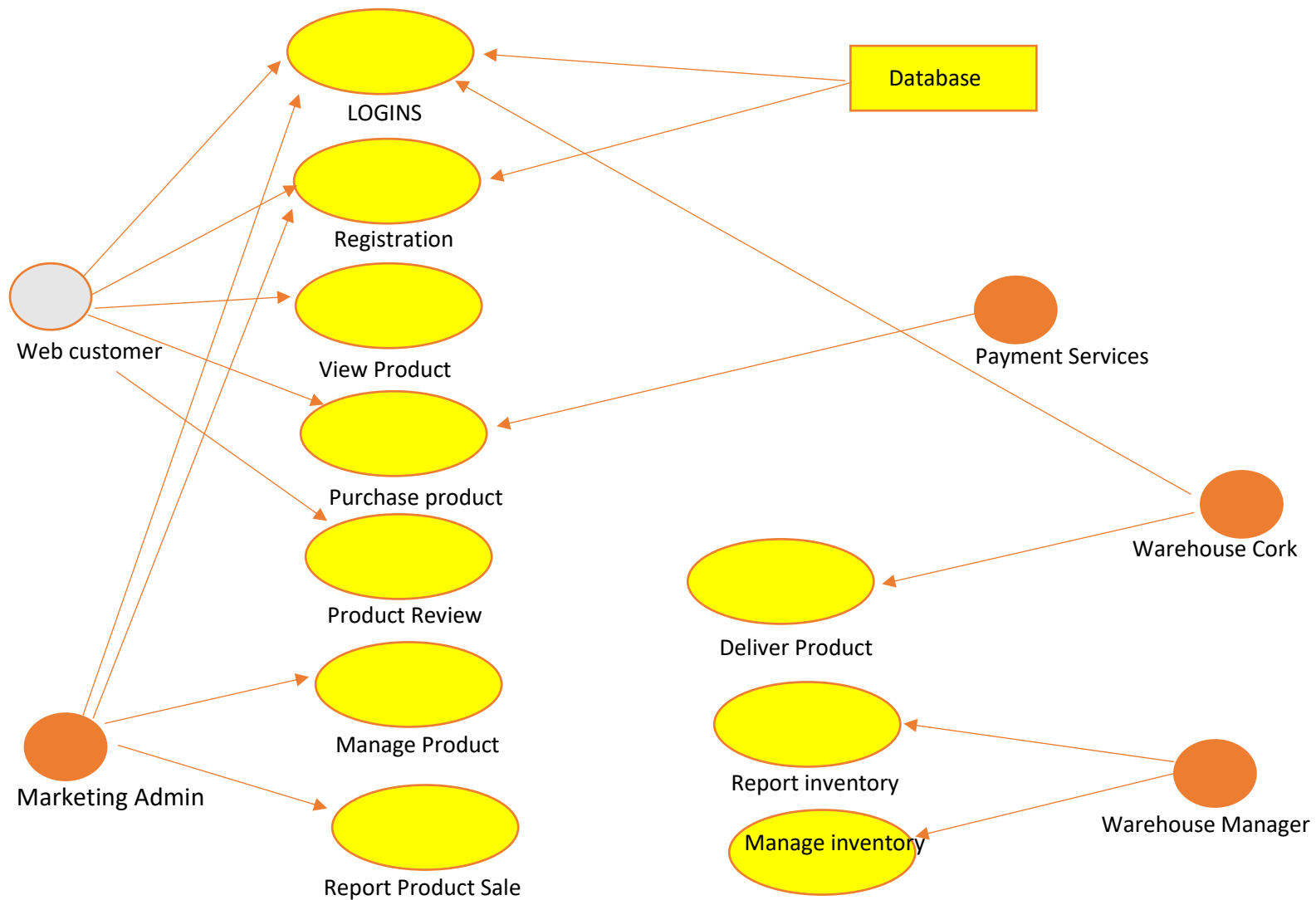
A key part of feasibility analysis is gathering information about the present system. The analyst must know what information to gather, where to find it, how to collect it, and what to make of it. The proper use of tools for gathering information is the key to successful analysis. The tools are the traditional interview, questionnaires, and on-site observation.

### **5.3 STRUCTURED ANALYSIS**

The traditional tools of data gathering have limitations. An English narrative description is often vague and difficult for the user to grasp. System flowcharts focus more on physical than on logical implementation of the candidate system. Because of these drawbacks, structured tools were introduced for analysis. Structured analysis is a set of techniques and graphical tools (DFD) that allow the analyst to develop a new kind of system specifications that are easily understandable to the use

## 6. SYSTEM DESIGN

### 6.1 USE CASE DIAGRAM

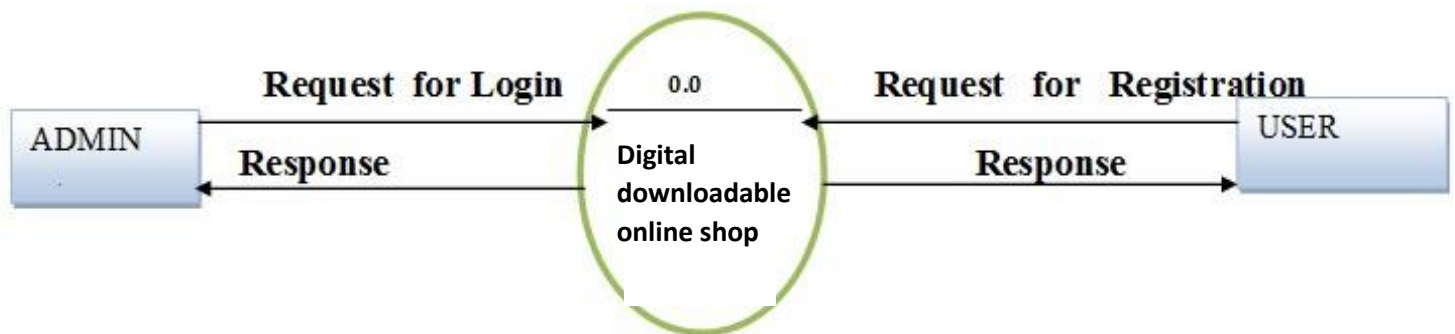


## 6.2 DATAFLOW DIAGRAM:

### Dfd diagram for downloadable online shopping website

#### Context level DFD – 0 level

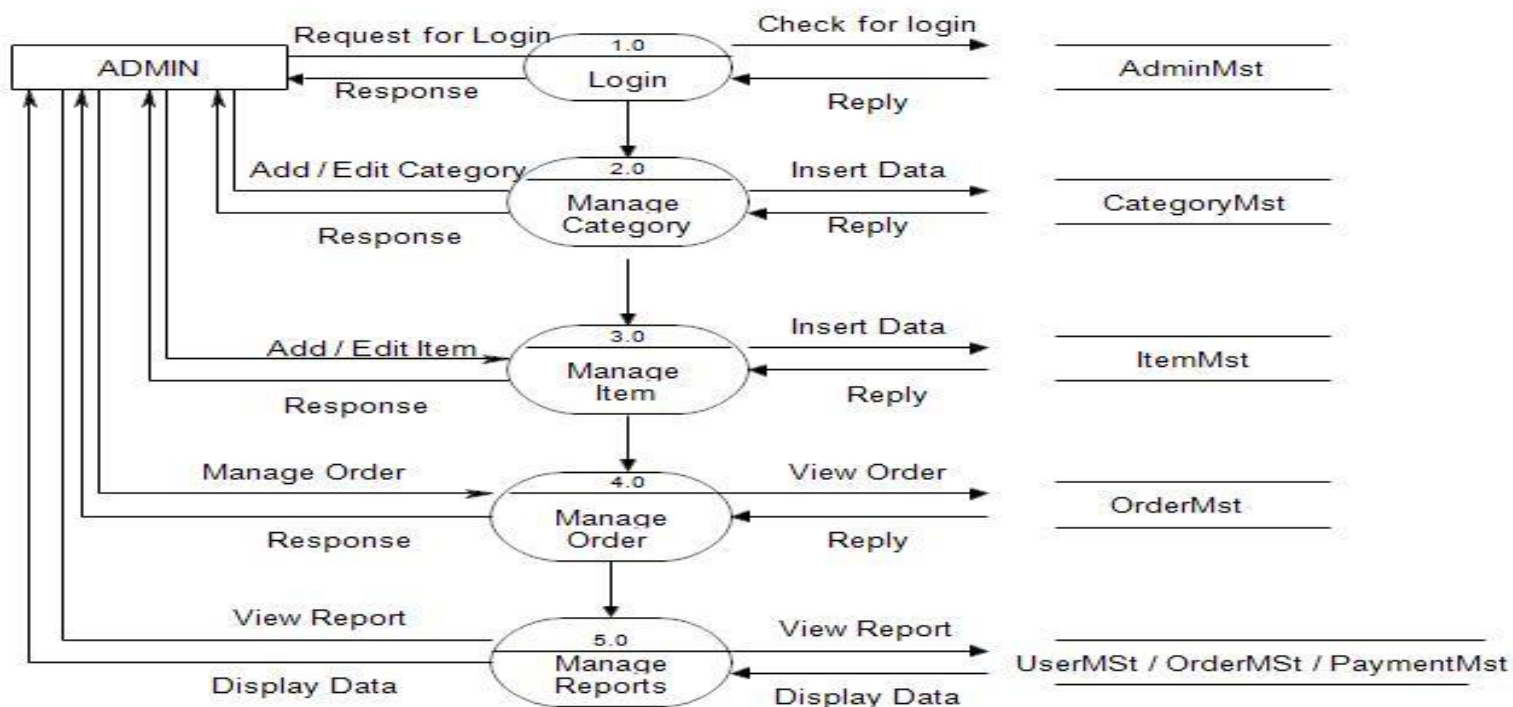
The context level data flow diagram (dfd) is describe the whole system. The (o) level dfd describe the all user module who operate the system. Below data flow diagram of online shopping site shows the two users can operate the system Admin and Member user.



#### 1st Level Admin Side DFD

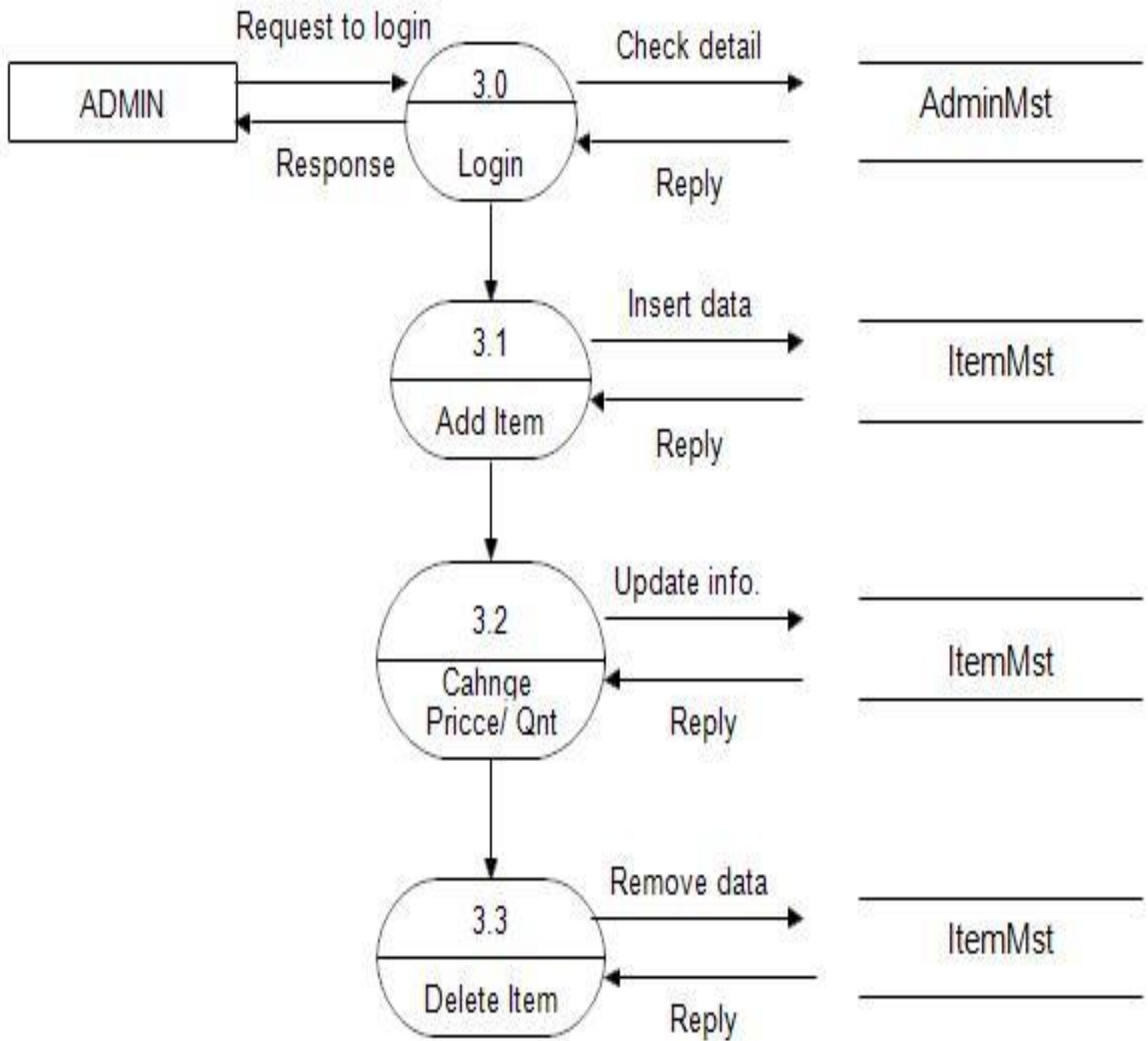
The Admin side DFD describe the functionality of Admin, Admin is a owner of the website. Admin can first add category of item and then add items by category wise. and admin can manage order and payment detail.

##### Admin Side DFD - 1st Level



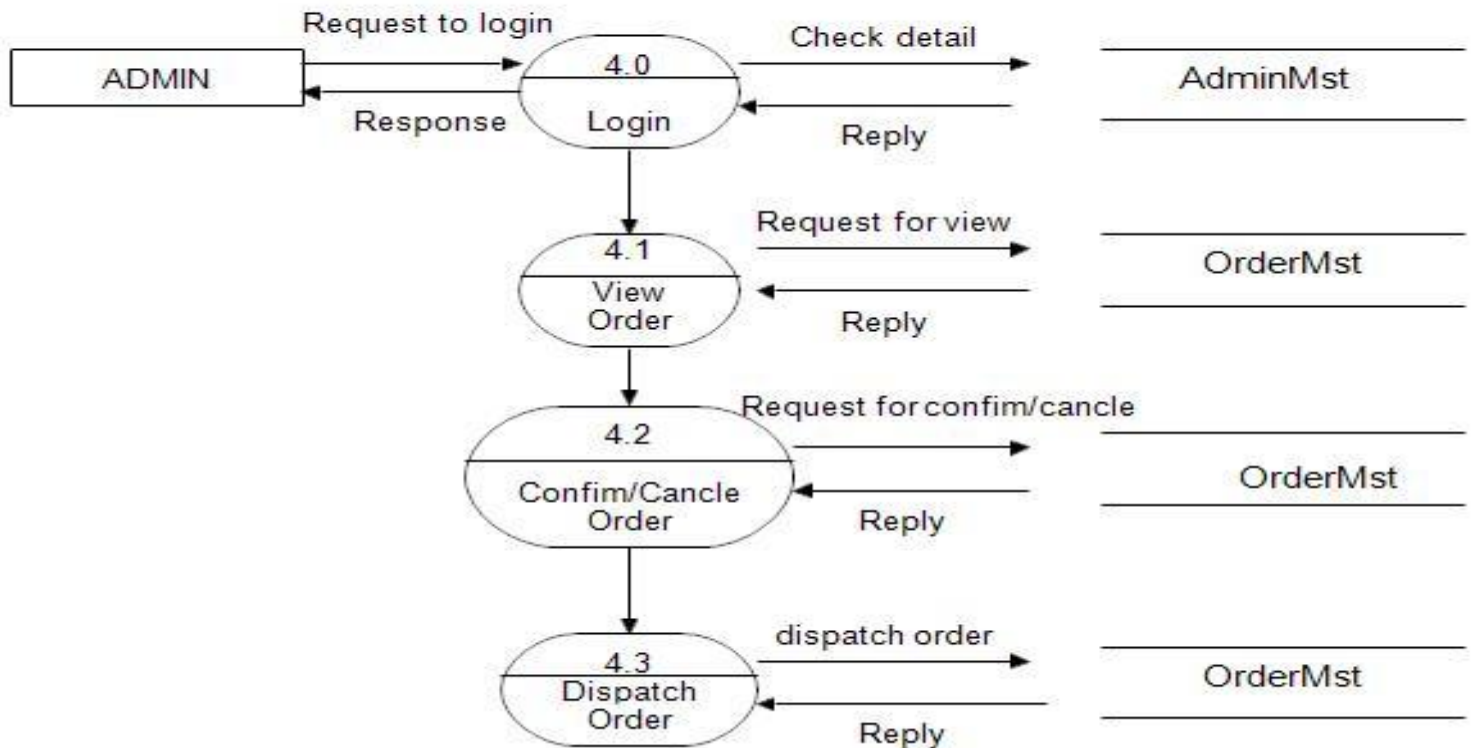
## 2nd Level – Admin side DFD (3.0):

### 2nd Level Admin DFD - (3.0)



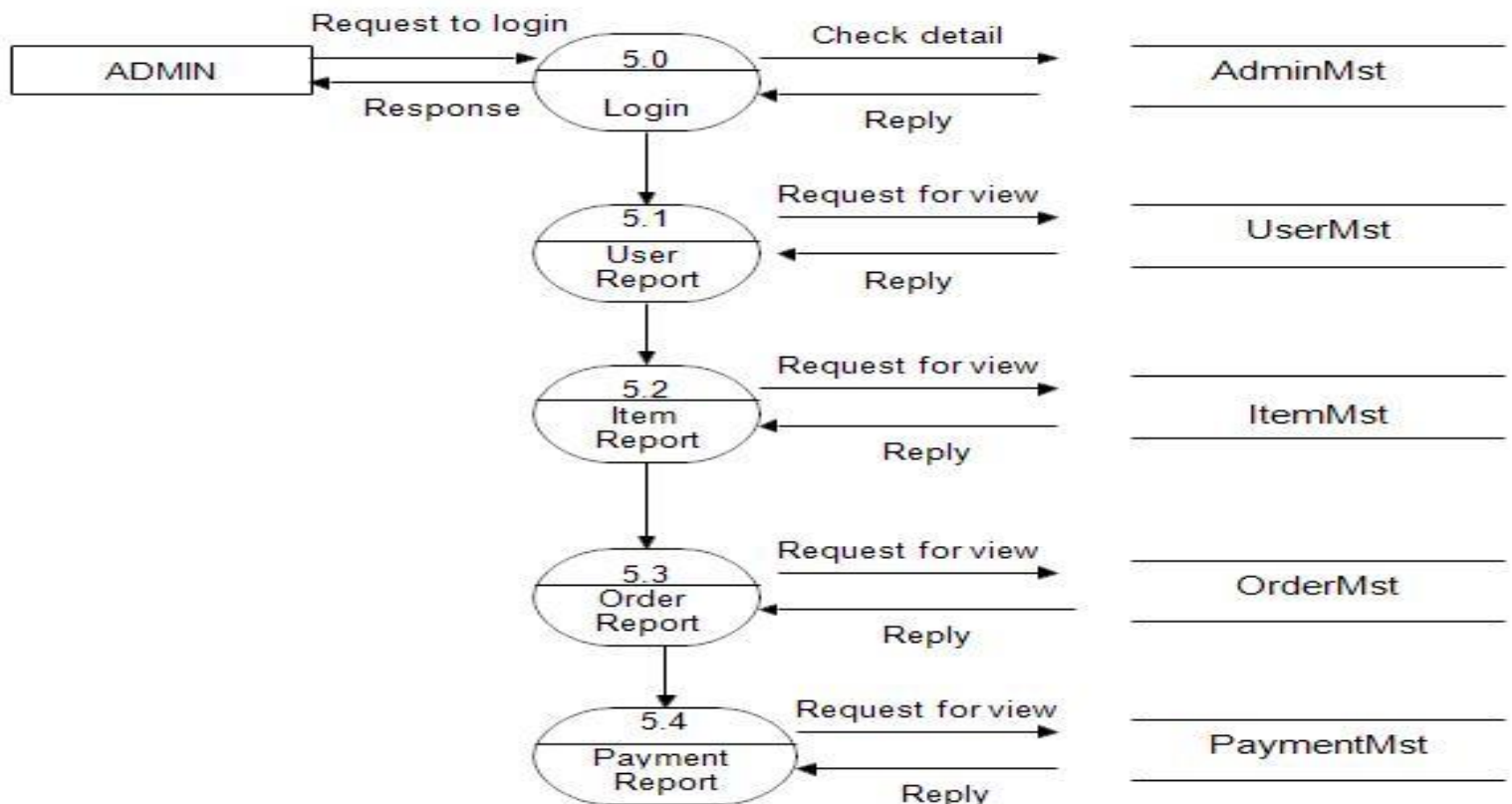
## 2nd Level – Admin side DFD (4.0):

### 2nd Level Admin DFD - (4.0)



## 2nd Level – Admin side DFD (5.0):

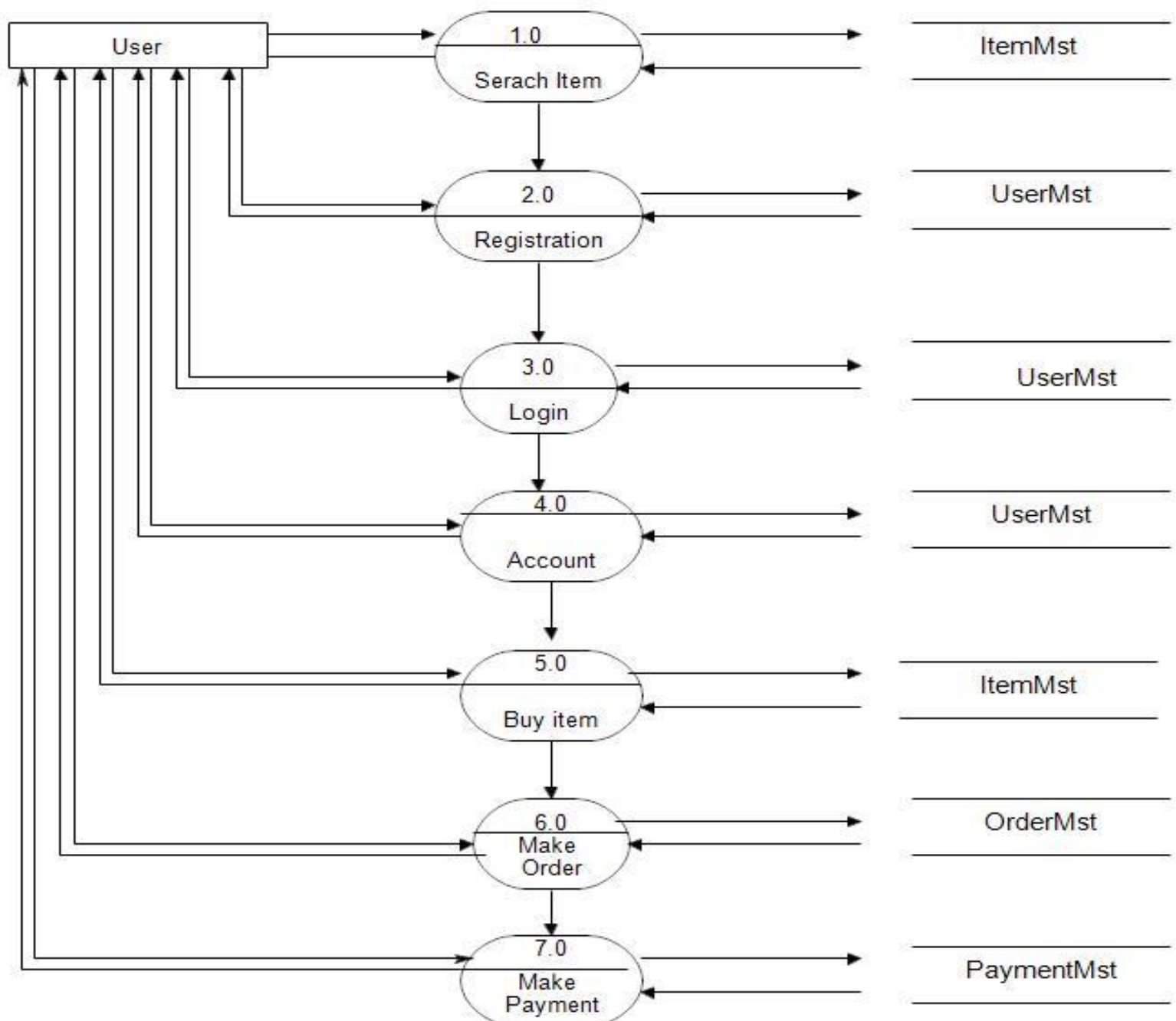
### 2nd Level Admin DFD - (5.0)



## 1st level – User side Data flow Diagram

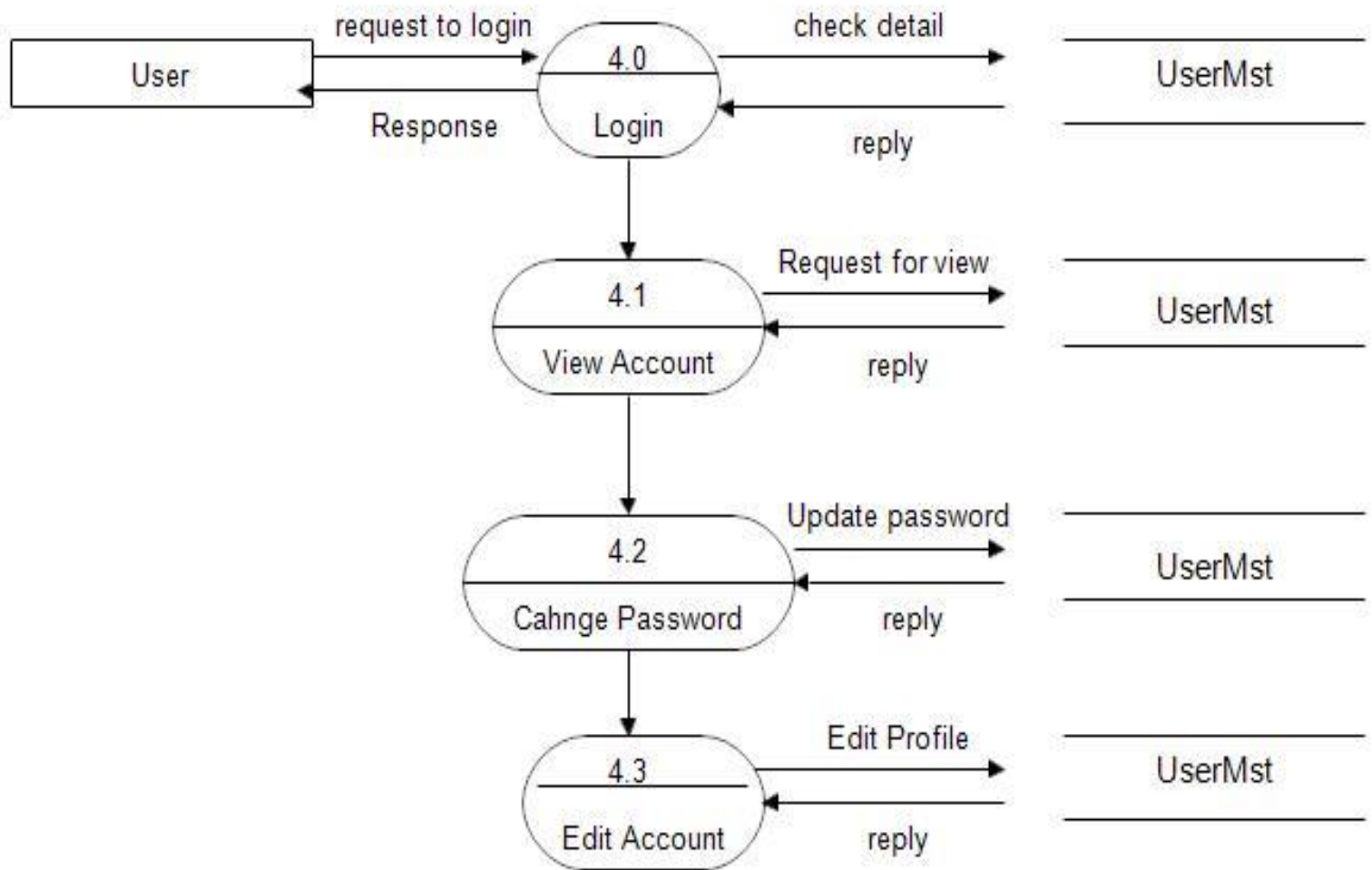
The user is all people who operate or visit our website. User is a customer of a website. User can first select product for buy, user must have to register in our system for purchase any item from our website. after register he can login to site and buy item by making online payment through any bank debit card or credit card.

### 1st Level User side DFD

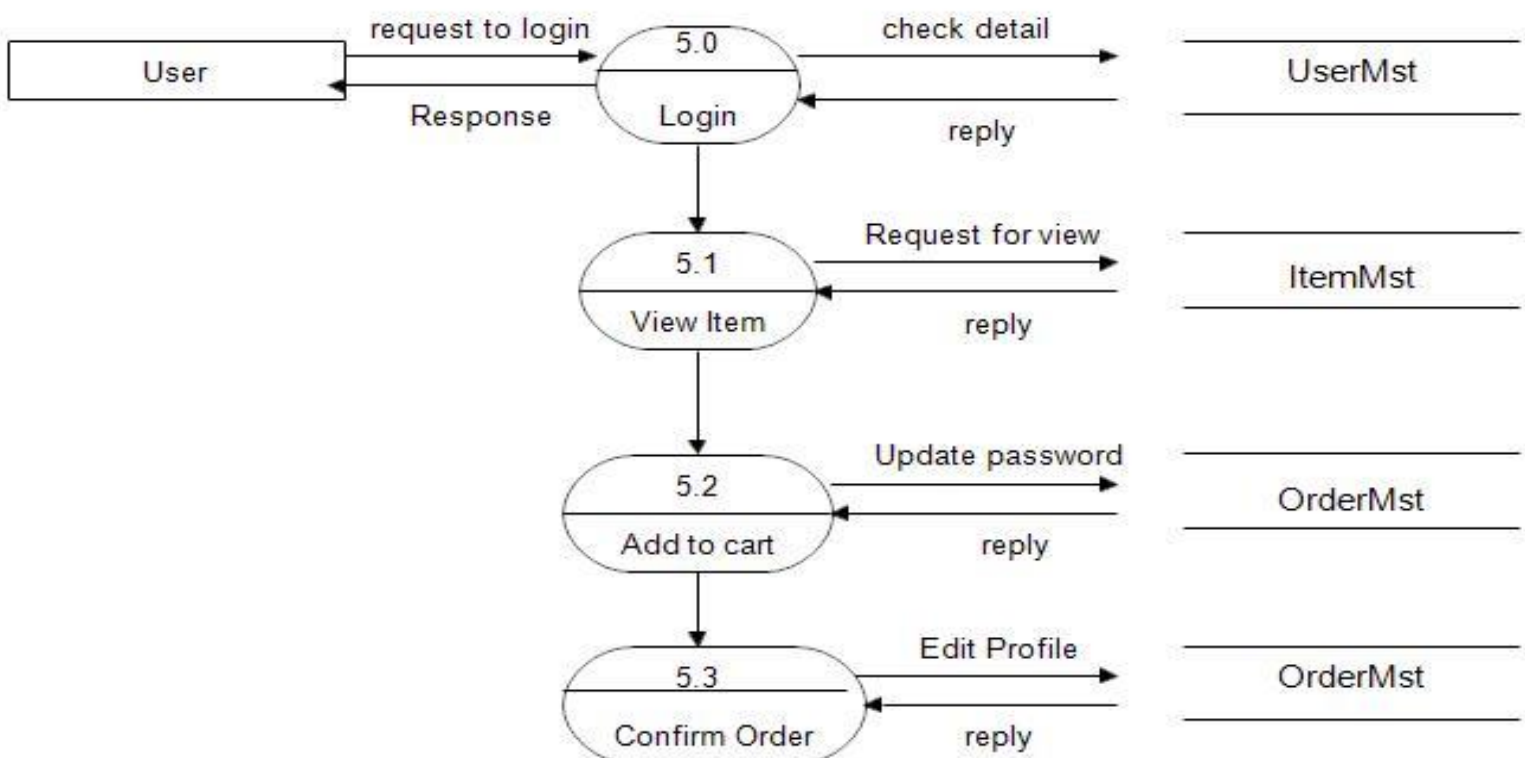




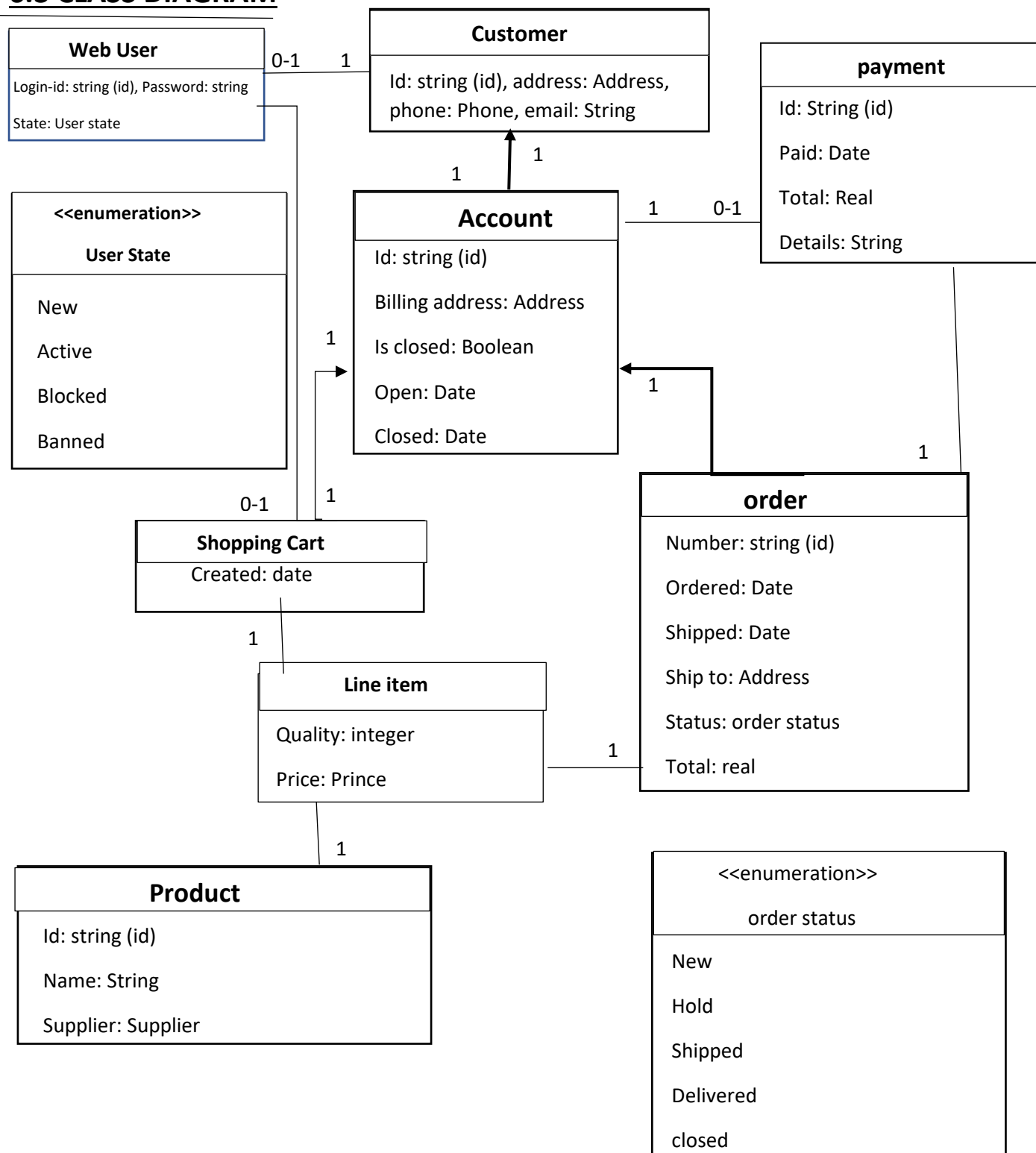
## 2st Level User DFD - (4.0)



## 2st Level User DFD - (5.0)

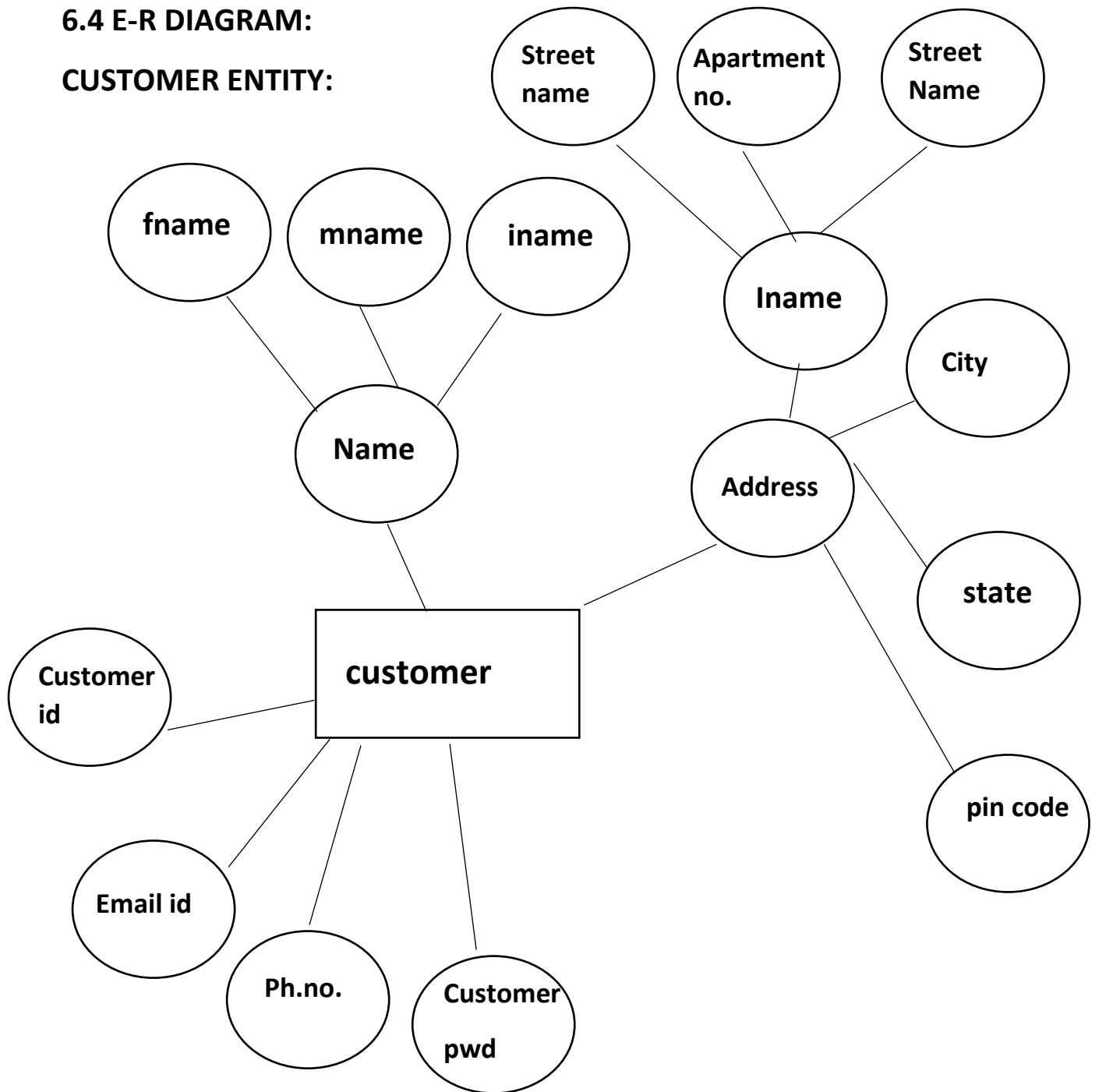


## 6.3 CLASS DIAGRAM

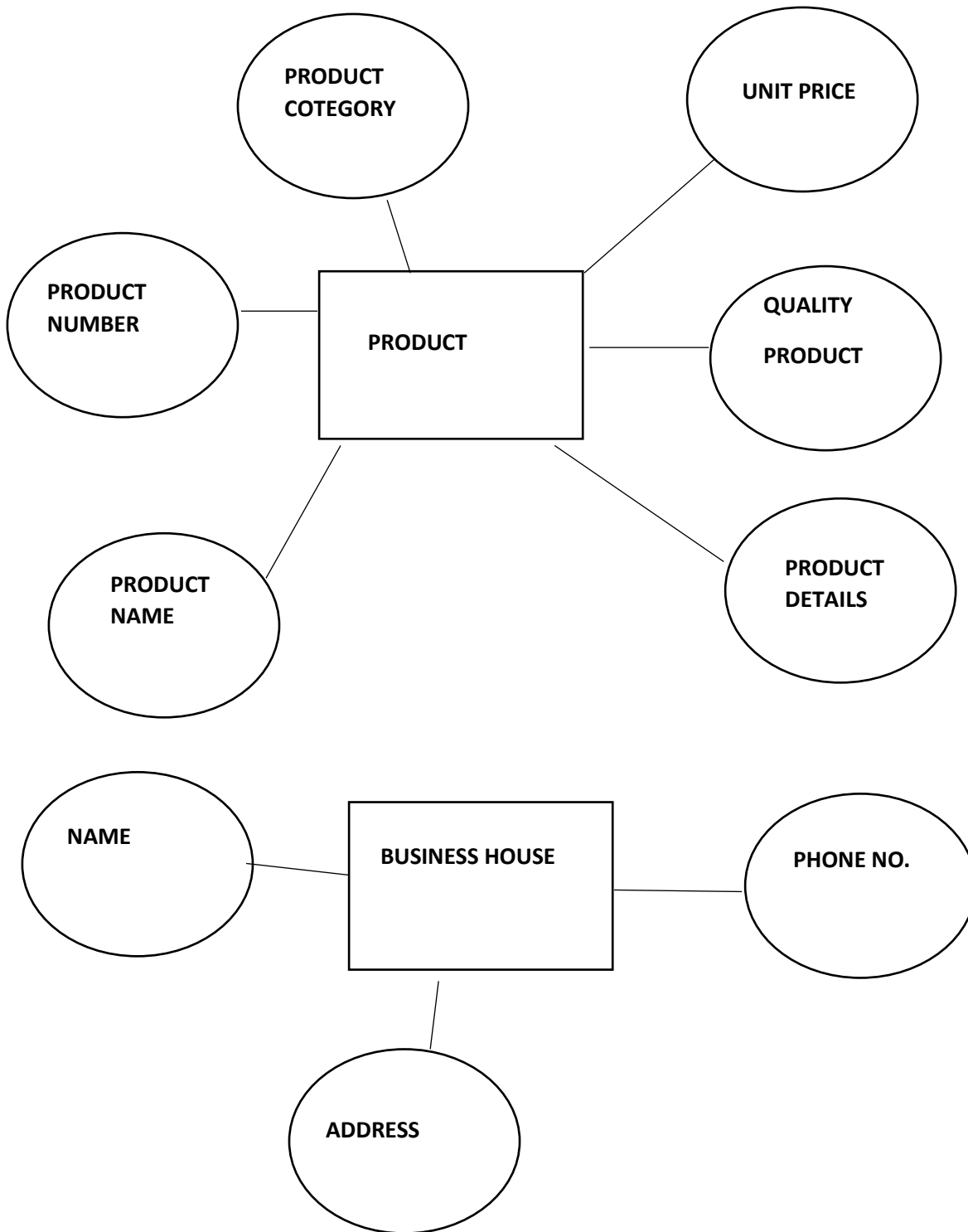


## 6.4 E-R DIAGRAM:

### CUSTOMER ENTITY:



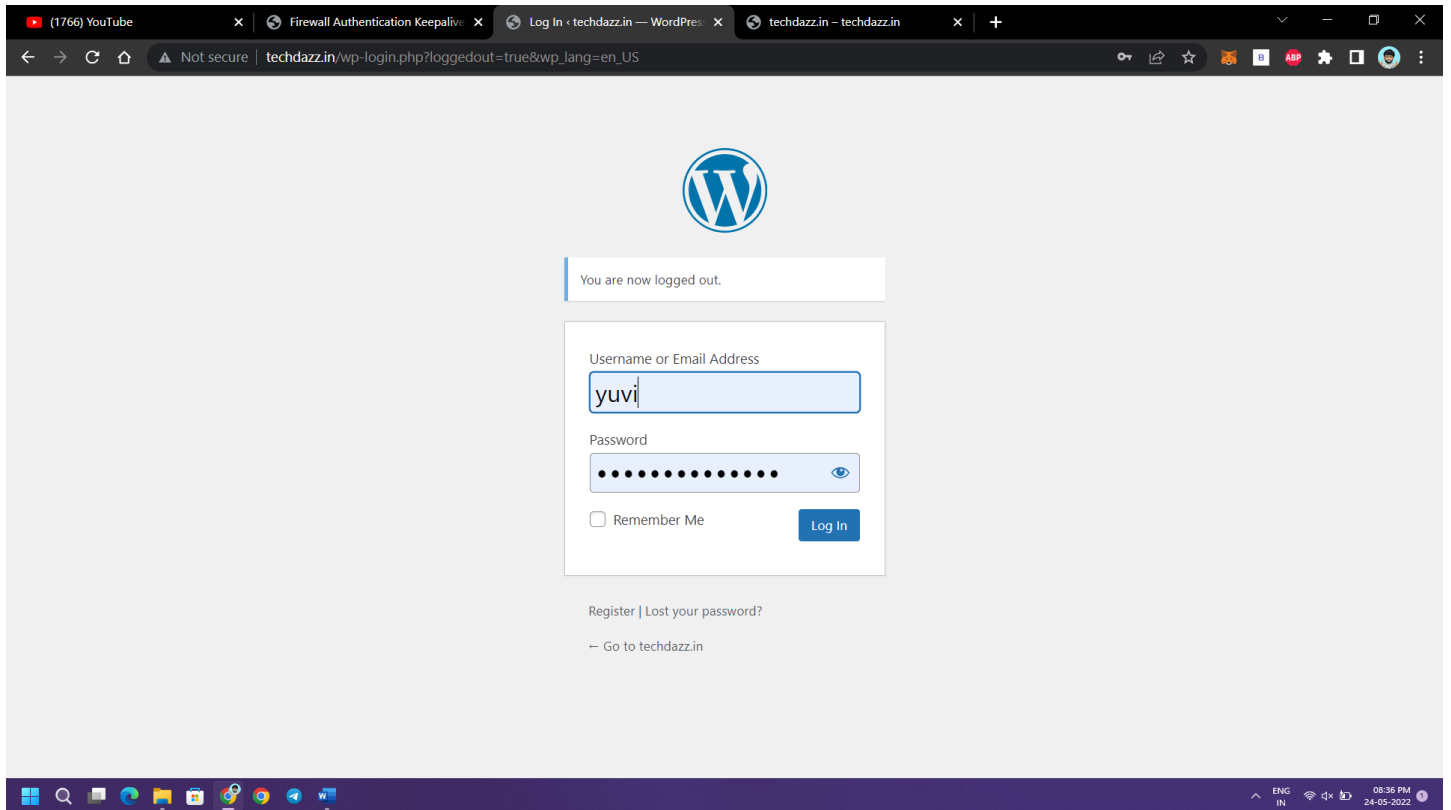
**PRODUCT ENTITY:**

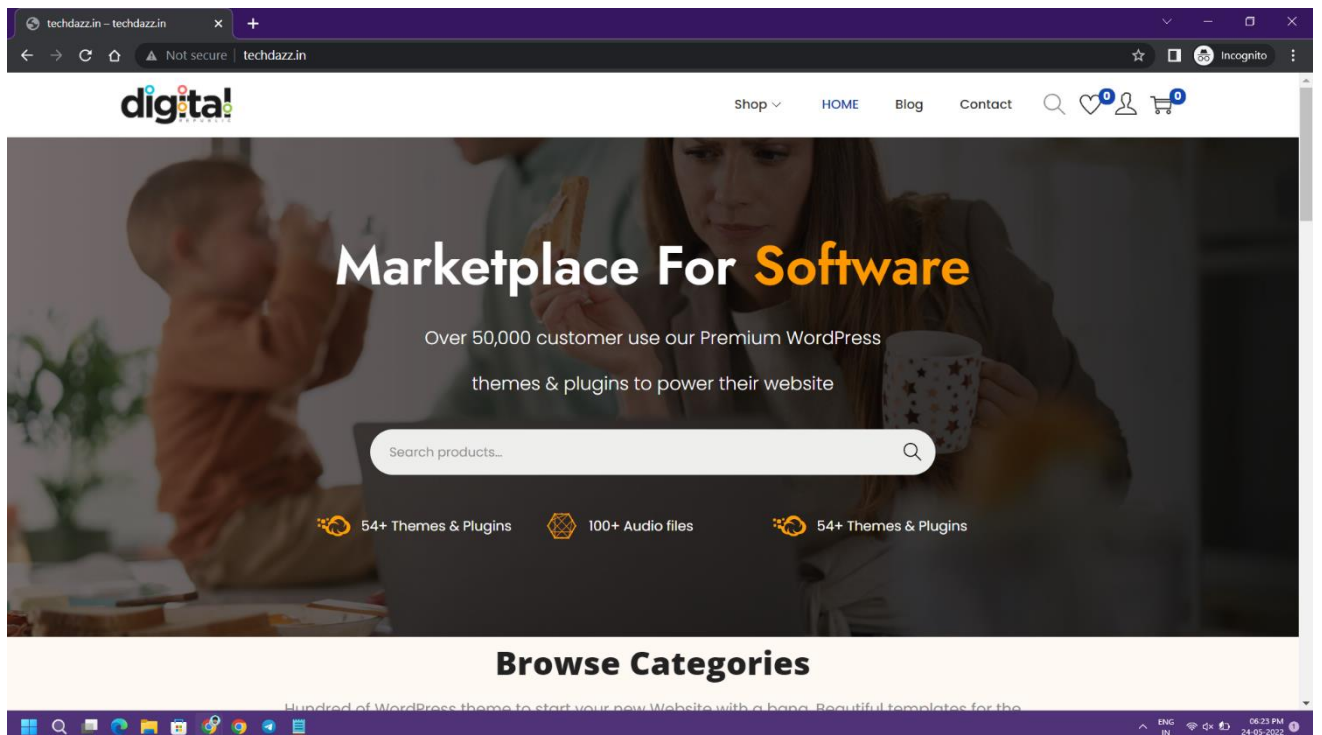
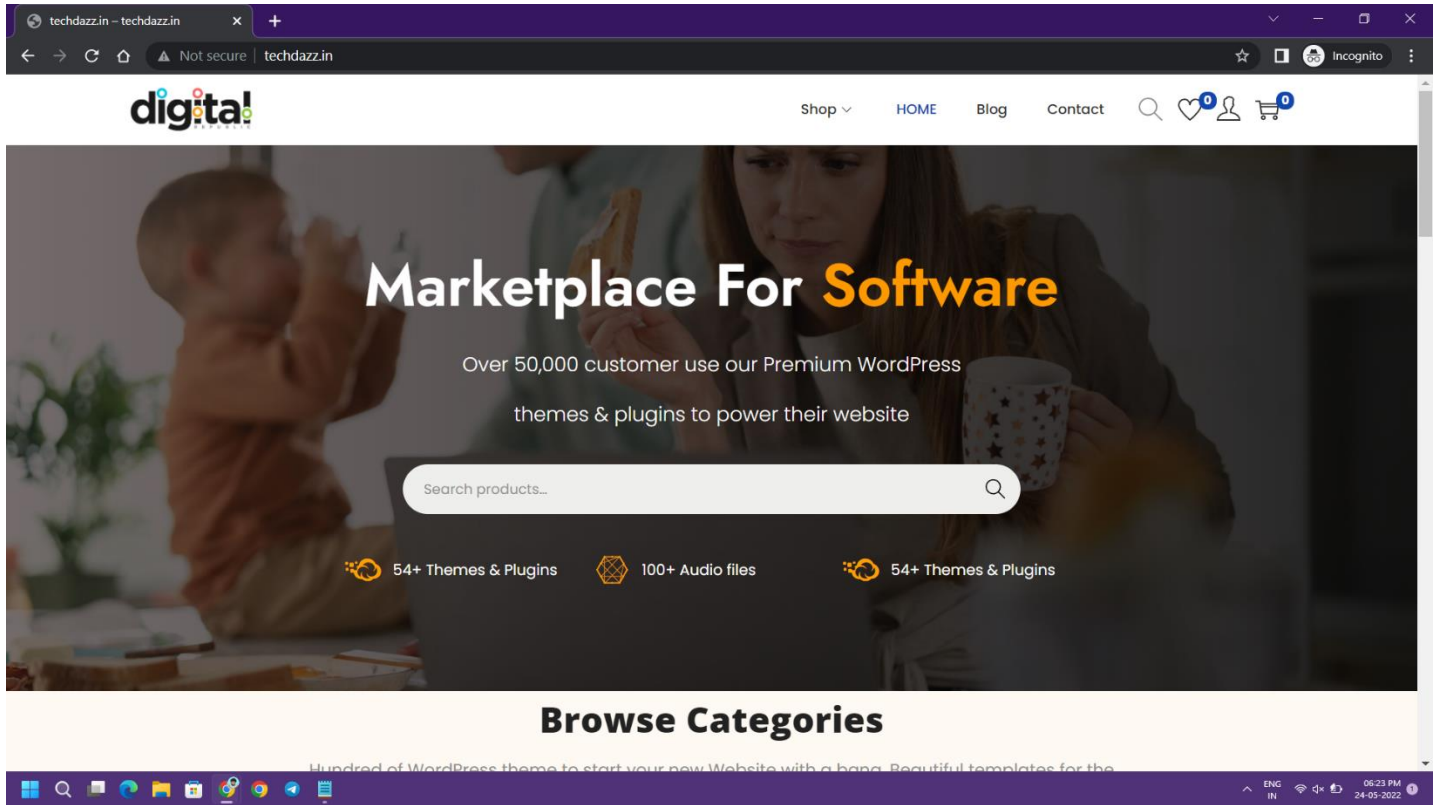


## 7.SCREENSHOTS

### 7.1 ADMIN PANEL:

#### LOGIN:





## Browse Categories

Hundred of WordPress theme to start your new Website with a bang. Beautiful templates for the worlds,s most popular content managment system



## FEATURED PRODUCT

Hundred of WordPress theme to start your new Website with a bang. Beautiful templates for the worlds,s most popular content managment system



## FEATURED PRODUCT

Hundred of WordPress theme to start your new Website with a bang. Beautiful templates for the worlds,s most popular content managment system



CAR COLLECTION  
₹2,999.00 ₹2,599.00

SCHOOL BAGS  
₹1,500.00 ₹1,399.00

BIKE PICS  
Add to cart

PDF BOOKS  
₹1,500.00 ₹1,200.00

## Categories Tabs



## Categories Tabs

Hundred of WordPress theme to start your new Website with a bang. Beautiful templates for the worlds,s most popular content managment system

PDF BOOKS

SOFTWARE



BIKE PICS  
₹1,100.00 ₹900.00



CAR COLLECTION  
₹2,999.00 ₹2,599.00



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Oppo Reno 8 Series With 50-  
Megapixel Triple Rear Camera, 80W  
Super Flash Charge Launched

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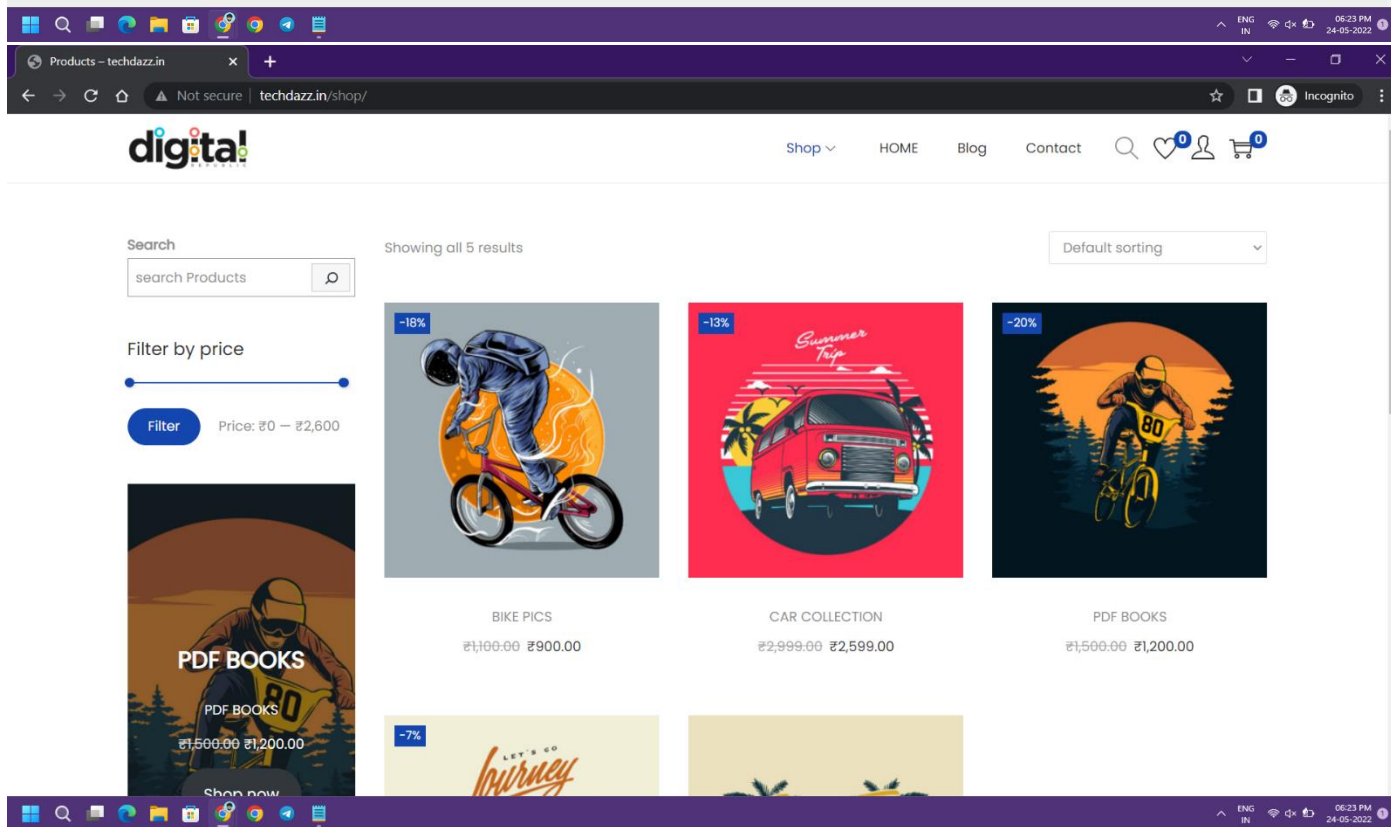
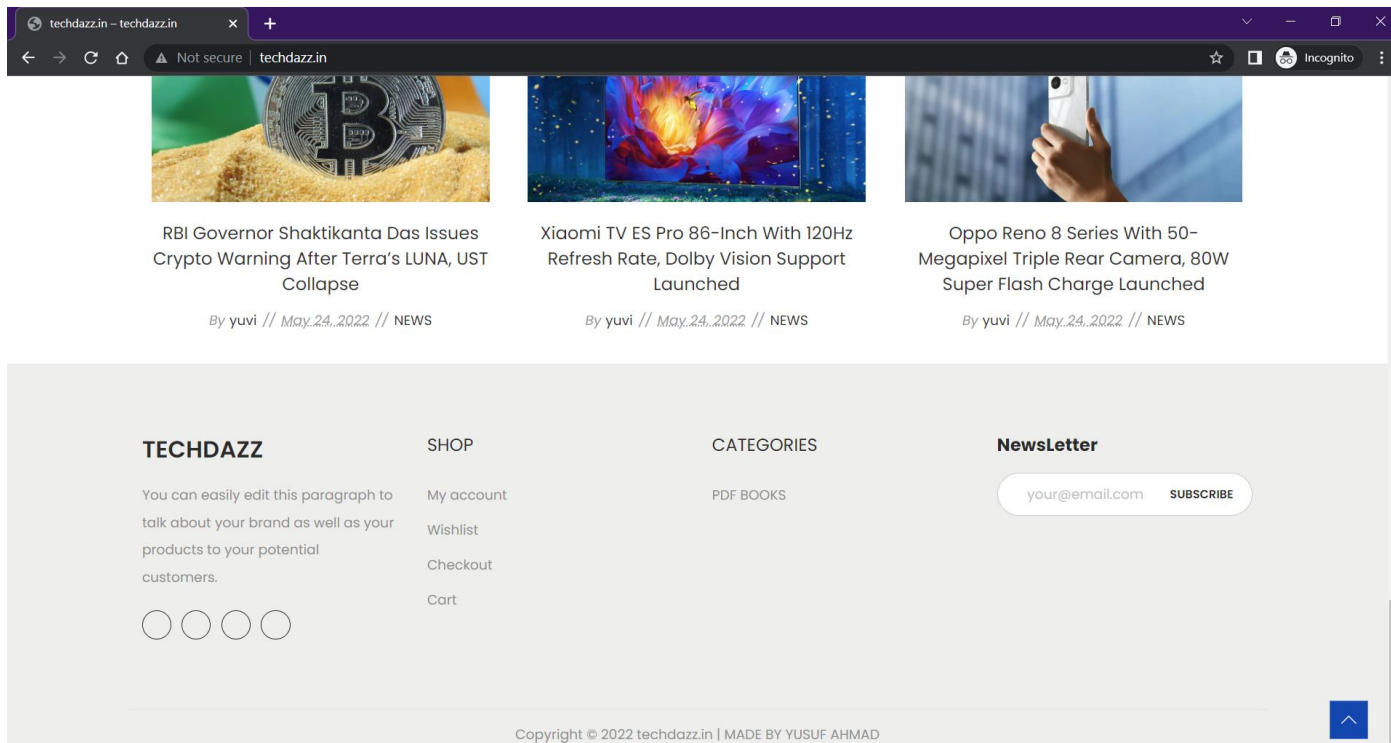
TECHDAZZ

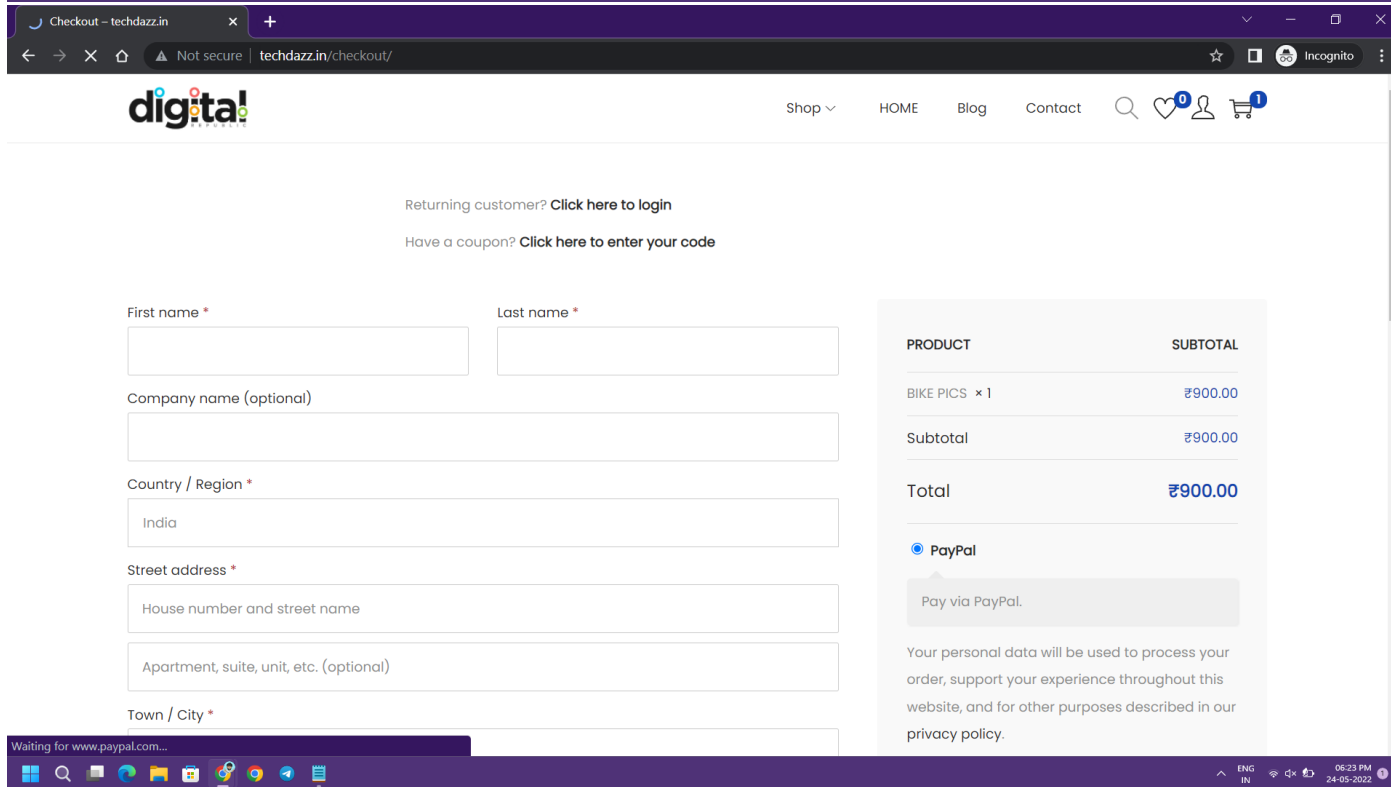
SHOP

CATEGORIES

NewsLetter







[Shop](#)[HOME](#)[Blog](#)[Contact](#)

## Login

Username or email address \*

Password \*

☐ Remember me

Log in

[Lost your password?](#)

## Register

Username \*

Email address \*

Password \*

Your personal data will be used to support your experience throughout this website, to manage access to your account, and for other purposes described in our [privacy policy](#).

Register

Waiting for www.paypal.com...

[Shop](#)[HOME](#)[Blog](#)[Contact](#)

## Default wishlist

☐ Your Wishlist is currently empty.

Return To Shop

### TECHDAZZ

You can easily edit this paragraph to talk about your brand as well as your products to your potential customers.

### SHOP

[My account](#)  
[Wishlist](#)  
[Checkout](#)  
[Cart](#)

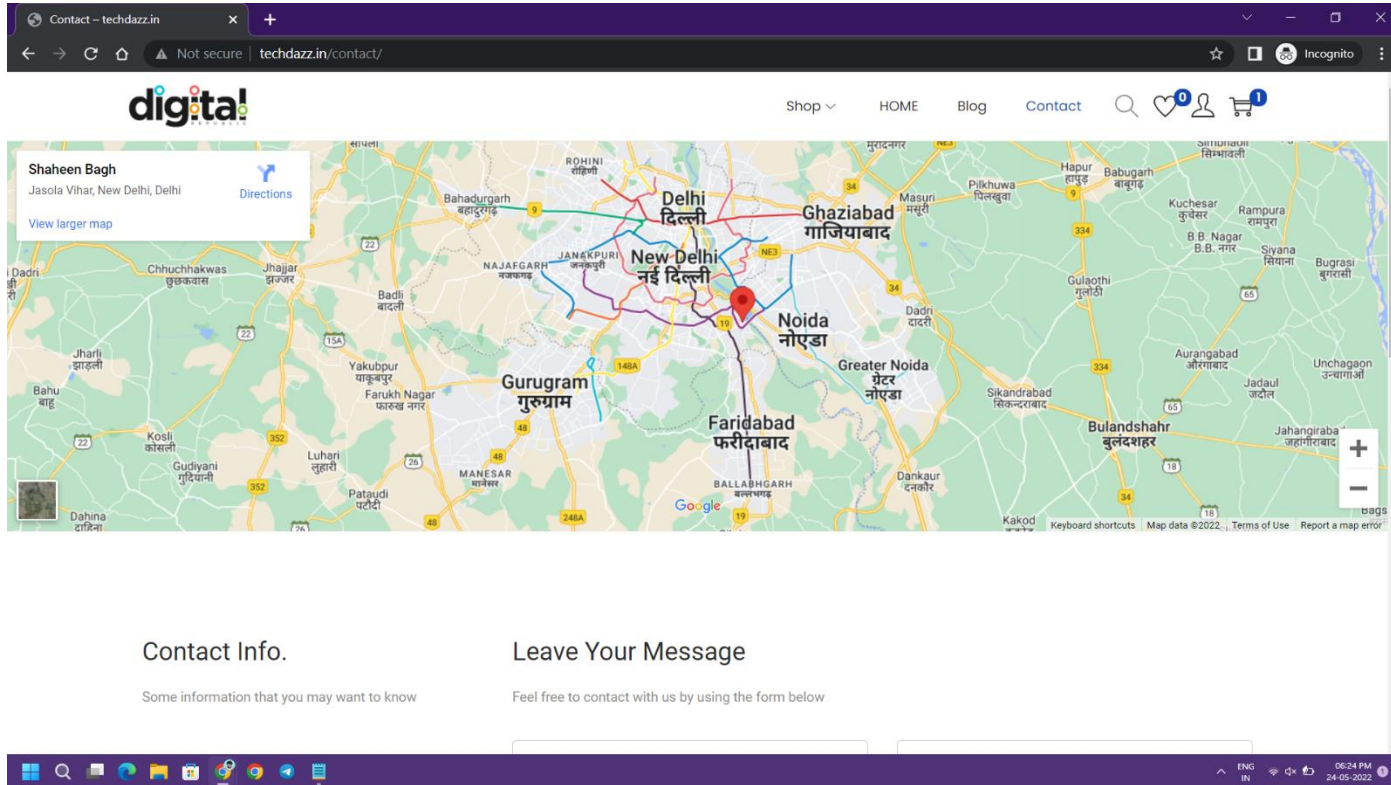
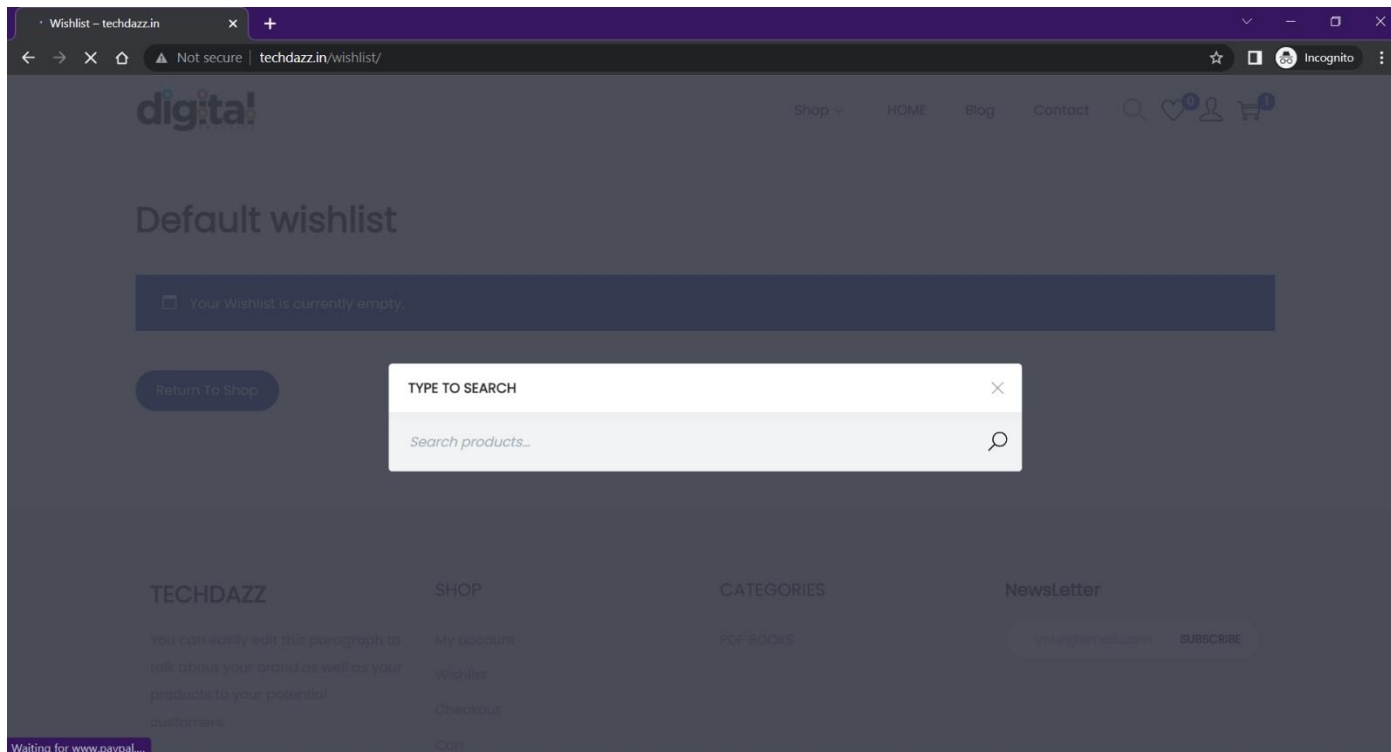
### CATEGORIES

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## Oppo Reno 8 Series With 50-Megapixel Triple Rear Camera, 80W Super Flash Charge Launched

May 24, 2022 · by yuvi · No comments yet

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Xiaomi TV ES Pro 86-Inch With  
120Hz Refresh Rate, Dolby Vision  
Support Launched  
Oppo Reno 8 Series With 50-  
Megapixel Triple Rear Camera,  
80W Super Flash Charge  
Launched  
MIUI 10 9.5.9 GLOBAL BETA UPDATE



## 8. DATA DICTIONARY

TABLE: ADMINS

FIELD NAME	TYPE	LENGTH	KEY
admin_id	int	10	Primary
admin_name	varchar	255	-
admin_email	varchar	255	-
admin_pass	varchar	255	-
admin_image	text	-	-
admin_contact	varchar	255	-
admin_country	text	-	-
admin_job	varchar	255	-
admin_about	text	-	-

TABLE: CART

FIELD NAME	TYPE	LENGTH	KEY
p_id	int	10	primary
ip_add	varchar	255	-
qty	int	10	-
Size	text	-	-

Table.8.2.CART

TABLE: CATAGORIES

FIELD NAME	TYPE	LENGTH	KEY
cat_id	int	10	primary
cat_titlt	text	-	-
cat_desc	text	-	-

FIELD NAME	TYPE	LENGTH	KEY
customer_id	int	10	primary
customer_name	varchar	255	-
customer_email	varchar	255	-
customer_pass	varchar	255	-
customer_country	text	-	-
customer_city	text	-	-
customer_contact	varchar	255	-
customer_address		-	-
customer_image		-	-
customer_ip	varchar	255	-

Table.8.4.CUSTOMER

TABLE: CUSTOMER\_ORDERS

FIELD NAME	TYPE	LENGTH	KEY
order_id	int	10	primary
customer_id	int	10	-
due_amount	int	10	-
invoice_no	int	10	-
qty	int	10	-
size	text	-	-
order_date	timestamp	-	-
order_status	text	-	-

**TABLE: PENDING\_ORDERS**

customer_id	int	10	-
due_amount	int	10	-
invoice_no	int	10	-
qty	int	10	-
size	text	-	-
product_id	text	-	-
order_status	text	-	-

Table 8.6.PENDING ORDERS

TABLE: PRODUCTS

FIELD NAME	TYPE	LENGTH	KEY
product_id	int	10	primary
p_cat_id	int	10	-
cat_id	int	10	-
date	timestamp	-	-
product_title	text	-	-
product_img1	text	-	-
product_img2	text	-	-
product_img3	text	-	-
product_price	int	10	
product_desc	text	-	
product_keywords	text	-	

Table.8.7.PRODUCTS

TABLE: PRODUCT\_CATAGORIES

FIELD NAME	TYPE	LENGTH	KEY
p_cat_id		10	primary
p_cat_titlt	text	-	-

p_cat_desc	text	-	-
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Table.8.8.PRODUCT\_CATAGORIES



## **9. INTERPRETATION OF PROJECT**

The system has been implemented and tested successfully. It meets the information requirements specified to the great extent. although the system has been designed keeping the present and future requirements in mind and made very flexible.

There are limitations of the system. proper consideration has been given for a wide range of new enhancements. The system is developed user friendly. In future, if it is required to generate 36 reports other than provided by the system it can be simply achieved by a separate module to the main menu without affecting the design of the system.

### **9.1 ADVANTAGES:**

- (1) it simplifies the operation.
- (2) it avoids a lot of manual work.
- (3) every transaction is obtained and processed immediately.
- (4) avoids errors by avoiding the manual work.
- (5) user friendly screen to enter the data and enquire the database tables.
- (6) online help messages available to the operating system.
- (7) user can easily access the system without much experience.
- (8) provide hardware and software securities.
- (9) portable and flexible for further extensions.

## Conclusion

The central concept of the application is to allow the customer to shop virtually using the Internet and allow customers to buy the items and articles of their desire from the store. The information pertaining to the products are stores on an RDBMS at the server side (store). The Server process the customers and the items are shipped to the address submitted by them. 37 The application was designed into two modules first Os for the customers who wish to buy the articles. Second is for the storekeepers who maintains and updates the information pertaining to the articles and those of the customers. The end user of this product is a departmental store where the application is hosted on the web and the administrator maintains the database. The application which is deployed at the customer database, the details of the items are brought forward from the database for the customer view based on the selection through the menu and the database of all the products are updated at the end of each transaction.

## 11. REFRNCES & BIBLIOGRAPHY

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## **12. ABOUT TOOLS & TECHNOLOGY**

### **12.1 Why We Use SQL**

#### **1.Security Management:**

SQL Server provides a controlled access to data to users by providing a combination of privileges.

#### **2.Backup and Recovery:**

SQL Server provides sophisticated security backup and recovery routines.

#### **3.Open connectivity:**

SQL Server provides open connectivity to and from another vendor's software such as Microsoft. Also, SQL Server database can be accessed by various front-end software's such as Microsoft Visual Basic®, Power Builder etc.

#### **4.Space Management:**

In SQL Server one can flexibly allocate disk spaces for data storage and can control them subsequently. SQL Server 8 is designed with special features of data warehousing

### **12.2 Why We Use WordPress**

#### **1.Rich Class Framework**

#### **2.Compiled execution**

#### **3.Rich output caching**

#### **4.Web-Farm Session State**

#### **5.Enhanced Reliability**

#### **6.Easy Deployment**

#### **7.Dynamic update of running application**