

**DESIGN AND DEVELOPMENT OF ONLINE GIFT SHOP MANAGEMENT  
SYSTEM**

**BY**

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This Report presented in partial fulfilment of Requirement for the degree  
of Masters of Science in computer science and Engineering.

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**DAFFODIL INTERNATIONAL UNIVERSITY**

**DHAKA, BANGLADESH**

**DECEMBER 2019**

## APPROVAL

This Project titled “**Design and Development of Online Gift Shop Management System**”, Submitted by Md. Ashraful Kabir, ID No: 142-25-394 to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfilment of the requirements for the degree of M.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 06 December 2019.

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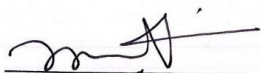
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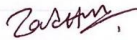
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## DECLARATION

We hereby declare that, this project has been done by us under the supervision of **Md. Zahid Hasan, Assistant Professor, Department of CSE** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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We would like to thanks our entire course mate in Daffodil International University, who took part in this discuss while completing the course work.

Finally, we must acknowledge with due respect the constant support and patients of our parents.

## **ABSTRACT**

This project has been developed based on B2C e-commerce site. The purpose of this project is to facilitate online consumers to buy gifts from online store and a seller can also sell their products from the web site. This project help e-commerce sectors to go beyond the boundary of physical gift shop. However online transaction is now permitted by Bangladesh bank & there are a lot of examples around the web. They provide default gateway for online transaction which makes it possible to build an e-commerce web application. In our application, there are two types of payment systems have been integrated such as cash on delivery and mobile banking payment system. To maintain the system an administrator has been delegated who can add products & check order status and so on. To develop this project, xampp server, WordPress, CSS, PHP & MySQL have been used. Internet browser is needed to use the system since it is a web based application. However Internet Explorer, Mozilla Firefox & chrome are recommended for best usability. After implementation of all functionalities of this system is working properly. In addition several testing has been done to check user experience & performance of the web application.

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# CHAPTER 1

## INTRODUCTION

### 1.1 Background of the project

It is vital for any business or service that the information must be accurate and updated. But in manual system it is usually very difficult because it has large number of drawback. A lot of ledger books and registers they need to maintain and a great number of people have to work regularly to write , Update , maintain and store them. It is obvious that they mistake in a variety of way and a great deal of time is spent to recover from those mistakes.

### 1.2 Aim of the Project

My project is “Gift shop Management System”. This is an online shop management system. It will be an e-commerce site. User can buy gift directly from this site. User can buy gifts from this website with using mobile banking or they can buy from cash on delivery.

### 1.3 Motivation

The online shopping practices are increasing rapidly, thanks to increased use of mobile usage for shopping and other purposes. Online store owners are always eager to know how to increase traffic on their ecommerce sites and how to increase conversion rates to earn more revenues. If you have read online tips to enhance ecommerce performance or increase the online sale, you might have noticed that everybody is recommending the thorough study of the target audience for the particular ecommerce niche and goals of the online business. During the target audience research, hardly anyone or a team emphasizing on the motivations behind the shopping or shopping intentions, and very few are trying to learn the different types of ecommerce shoppers and their shopping behaviours on ecommerce stores. Therefore, we have taken challenges to produce some deep insights in this regard, and current post is describing both things, motivations, and behaviour of different kinds of ecommerce shoppers at a glance.

Study on ecommerce shopping and shoppers, mostly in the American continent, the European continent, Australia, and some parts of Russia have indicated various motivations behind the rising trends of ecommerce among the masses. However, the following are the most common and widely acceptable reasons behind the motivations for online shopping.

**No.1: Low Price**

Investment in online business is low compared to a brick-and-mortar store. Therefore, ecommerce can offer cheaper rates with other additional advantages that ultimately lures the shoppers to go online for various shopping needs.

**No.2: Wide Selection Options**

Ecommerce customers can choice & search any kind of products.

**No.3: Convenience**

Online shopping eliminates traveling or walking is easy, online shopping make a customer save time & money.

**No.4: Price Comparison or Bargaining**

Due to comparatively low investment in ecommerce and stiff competition in online businesses, customers can get the best deal and more opportunities for bargaining.

**No.5: Free Shipping and Other Incentives**

The shipping price is the biggest obstacle after the delay due to shipping in the way to ecommerce. Therefore, to lure more online customers, ecommerce stores are offering free shipping on bulk/big volume purchases or big amount of order.

**1.4 Benefit of the Project**

There are many benefit of this project. Customer can easily buy their products and also a seller can sell their products. Physical retail store needed more money and also man power, laser book maintain which is very difficult then online store. So this project is an e-commerce project and I hope it will take full advantages of the new e-commerce area of Bangladesh. This technique is very much compatible with the object-oriented programming.

## **1.5 Conclusion**

Using Online Gift shop Management system, user can buy gifts from a distant or a remote place. Customer can easily search their products from on line & then they order submit.

## CHAPTER 2

### LITERATURE REVIEW

#### 2.1 Introduction

Many country ecommerce service day by day increasing. In our Bangladesh there are many ecommerce website which is already becoming more popular. Many research works by done ecommerce, most of them is online store

#### Business model:

There are many type of E-commerce such as-

#### Business - to - Business (B2B)

In this system a wholesaler search website & place an order company website. Then company feedback customer.

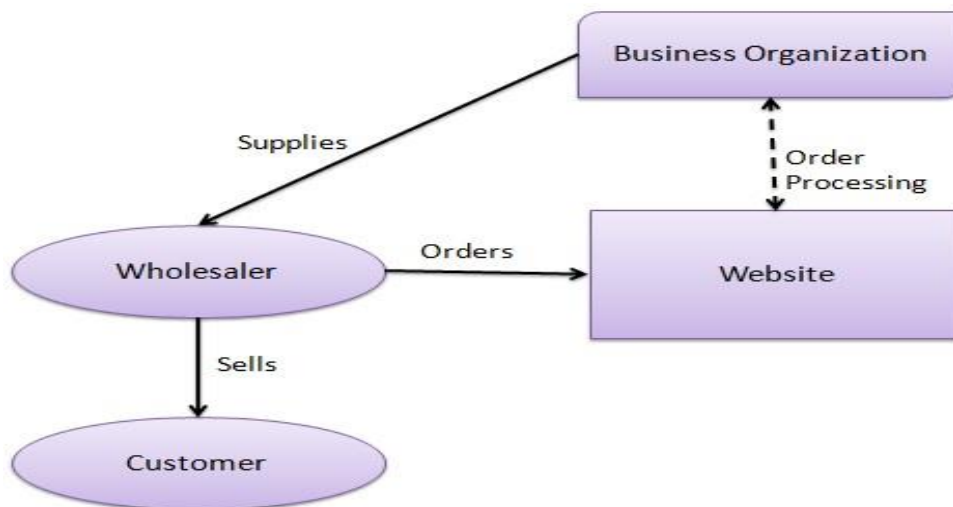


Figure 2.1 Business -to - Business (B2B)

#### Business - to - Consumer (B2C)

This model customer go website and view company products and finally customer place order in their website.

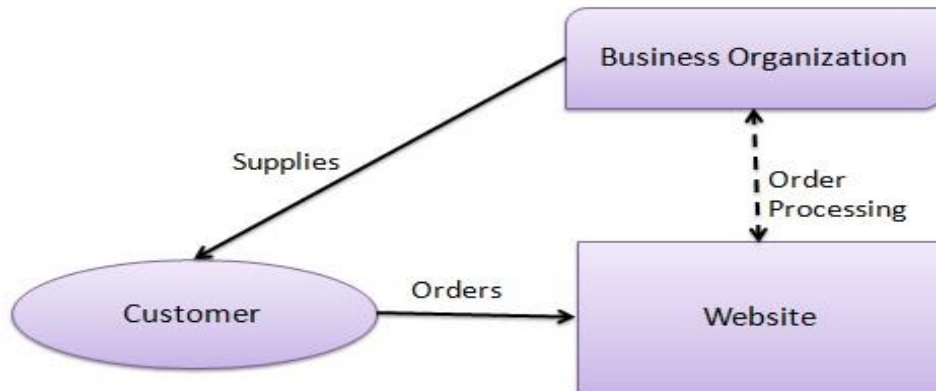


Figure 2.2 Business - to - Consumer (B2C)

**Consumer - to - Consumer (C2C)**

In this model customer direct sale other customer. Customer-1 upload a product online on the other hand customer-2 buy this product from on line

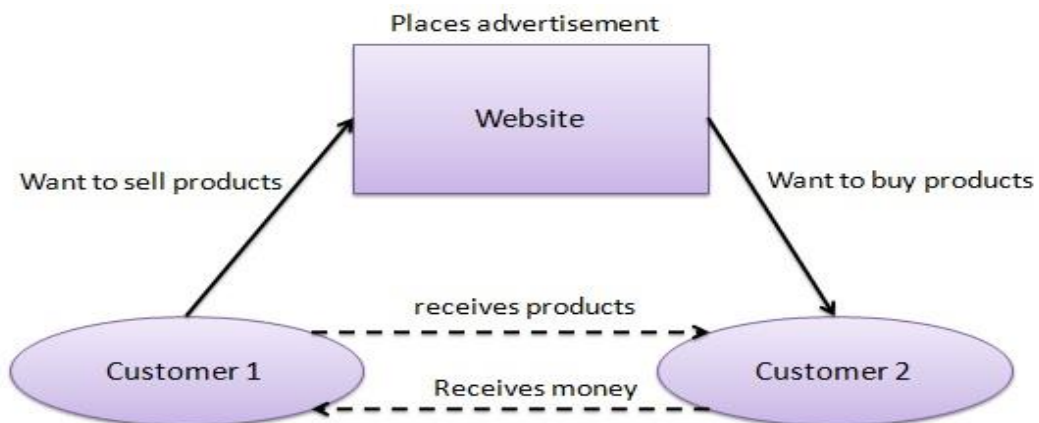


Figure 2.3 Consumer - to - Consumer (C2C)

**Consumer - to - Business (C2B)**

This system business organization place their particular service in online & also business organization fixed an amount, on the other hand customer choice work & fulfil this work and submit them & receive money.



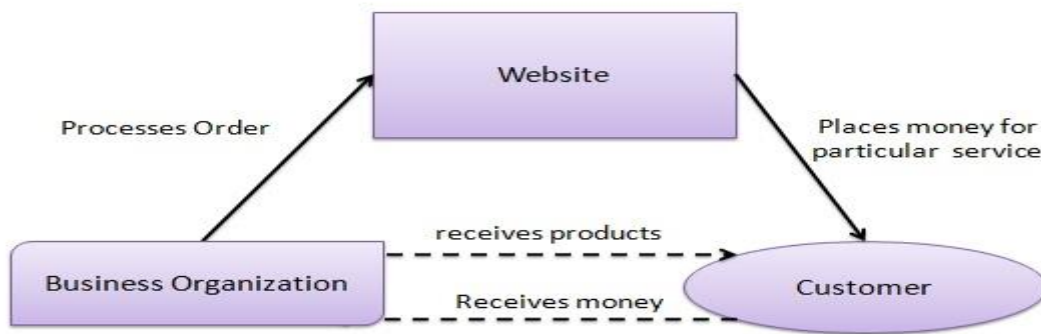


Figure2.4 Consumer - to - Business (C2B)

**Business - to - Government (B2G)**

This model B2G model where Government use various website for their trade and exchange information purpose.



Figure 2.5 Business - to - Government (B2G)

**Government - to - Business (G2B)**

This model Government place there company website support auction, tenders and applications submission functionalities.



Figure 2.6 Government - to - Business (G2B)

**Government - to - Citizen (G2C)**

This model citizen in general direct enter government website and they can registration and submit their birth, marriage or death certificate.



Figure 2.7 Government - to - Citizen (G2C)

### The system Development Life cycle

This is a project management model where planning, design development, operation, maintenance integration and testing is directly involve. Without any of them project not fulfil. This is the cycle where a project should give any project high quality output.

Figure 2.1: System Development Life cycle

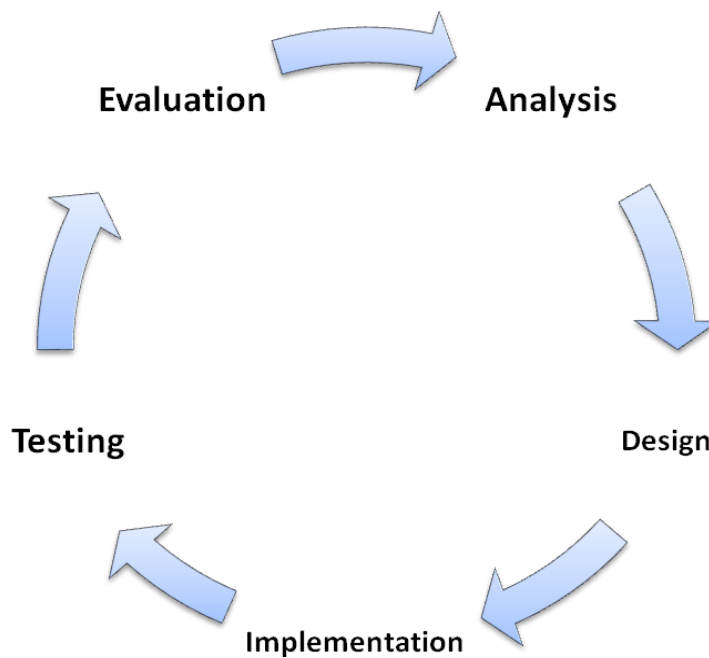


Figure 2. 8 System Development Life cycle (SDLC)

## 2.2 Related works

E-commerce have many related work in Bangladesh & foreign country, ecommerce is that where customer can buy and seller sell their products from on line store. Ecommerce is not only buying & selling procedure from on line store but also transmit data or fund.

**Facebook advertising consulting gig:** Build some success and generate case studies from your clients. After that, evolve from a consultant to a small agency by hiring assistants and teaching them the business. Focus your efforts after that on customer acquisition and train other people to execute the ads.

**Amazon product sales consultancy:** This is similar to starting a Facebook ads gig, but the platform is Amazon. There is almost no risk for the business owner. All sales and profit would be incremental. And you should be able to drive sales for almost any business

**Media Company:** Create a blog with a related email newsletter and social media pages. The key is to start in a niche that you can monetize down the road — if you can build a following, which requires compelling content that helps or entertains people from day one. If you can add a lot of subscribers — at least 10,000 on email and 20,000-50,000 on social channels — then your idea is sound, which you can monetize.

## 2.3 Scope of problems

Now a days many ecommerce company are business in Bangladesh. But problem is that many customer who are not ready to use debit/credit. They don't know about the POS machines.

People are want to buying online but trust is a big issue. Mostly the idea of selling online is premature. People think of Facebook as a platform to sell their products. Whether they don't yet feel the importance of selling product from their website and promoting them in Facebook and other social media.

Basically 4-5 problems- market is limited, most people are still worried to buy online. Most important problem for e-commerce in Bangladesh is payment method. Because there are no PayPal in Bangladesh. And the other problem is Bangladeshi people still worried to buy from online.

## **2.4 Challenges**

There are many ecommerce company in Bangladesh but problem is that some company is not trusted company. Customer can't believe that site and also shipment policy and delivery process is delay, in this cause customer can't believe that type website.

On the other hand every ecommerce site more challenge is that chose the product's, attracting products for customer, high quality products, choose right technology. Customer payment security etc.

## **2.5 Conclusion**

In Bangladesh some of the user use internet where most of them are don't know about the ecommerce. In Bangladesh ecommerce sector are not so much develop in our country. The main problem is our country is uneducated population which most of people are don't know internet. We can change this situation if we develop our telecommunication infrastructure, government awareness and people mind set.

## **CHAPTER 3**

### **REQUIREMENT SPECIFICATION**

#### **3.1 Introduction**

This project develop purpose first needed about clear understanding about the software. If you achieve from ecommerce project you need continuous communication with customer and fulfil their requirements.

#### **3.2 Technical feasibility**

Technical feasibility is very important for every project. How to you deliver product or service in your customer it's very important issue. This project use high configuration computer, domain name, software, database, cpanel etc.

##### **3.2.1 Necessary components**

Technical study for new system is done. This project is done to check hardware & software will be operating would successfully support. If anyone can use this software first need a computer, a web browser, need to buy a domain and hostname.

##### **3.2.2 Equipment for development**

Since the system would be developed by open source platform any modern PC with minimum configuration would go for the development purpose.

##### **3.2.3 Software**

1. Operating System: Windows-10 64 bits
2. XAMPP control panel v7.1.33
3. Sublime\_Text\_Build\_3211
3. Photoshop

##### **3.2.4 Development tools**

- Fort end design tool: CSS,CSS3
- Framework: JQuery.
- Programming language: PHP, HTML, HTML5, java script

- Database: MySQL & Apache

### **3.3 Economical feasibility**

Economic analysis is that where company total budget and also how many benefit from this project.

#### **3.3.1 Staff cost**

The system needed only one administrator who operates this system. No additional staffs are needed to run the system.

### **3.4 Human factor**

When we consider a software-based interactive system, the phrase “human factor” takes on a number of different meanings. In general sense it’s the user and his/her behaviour.

#### **3.4.1 Existing user**

This project admin have total power (edit, modify, delete) for control web page. For proper operate ecommerce website it is important to train up existing user about the system.

#### **3.4.2 Training**

Training is very important for user. Training make a user can develop skill, for this case some of the task mast needed to train up some user which is involve direct this business.

### **3.5 Environment Feasibility**

All type of Potential issue problems need to be solved in advance. Arrange for what may be the problem in the future. Make sure that users get all kinds of technical & logical benefits. The website must be user friendly.

### **3.6 The system final proposal of Feasibility**

#### **3.6.1 Unexpected prosperity**

- To learn about planning, developing, marketing etc.
- System handling
- Control outside hackers
- Technical information

- System update procedure
- Security for all type customer

### 3.6.2 Real prosperity

- Reducing manual costs
- Isolated expenses are less.
- Increase in sales information.

## 3.7 User catalogue

Table 3.1 User catalogue

| Job Title     | Tasks   | Comments  |
|---------------|---|---|
| Administrator | Maintain all report<br>Checking daily truncation.<br>Upload new item.<br>Add user to a group.<br>Add/drop in association list.<br>Check daily, monthly sales. | Administrator does all these tasks and only he has access to change it. |
| Store Keeper  | 1. Check store label.   | They inform admin if they face problems.                                |
| Delivery Boy  | Gift delivery according to the order.<br>Receive the bill in case of cash on delivery.  | Only information can be seen.   |

## 3.8 Discussion record

Table 3.2 Discussion Record

|  |                             |
|--|-----------------------------|
| System: Design and Development of Online Gift Shop Management System | Name:<br>Md. Ashraful Kabir |
|--|-----------------------------|

|  |   |
|--|---|
| <b>Participation:</b><br>Md. Azadul Islam<br>Asst. Manager<br>Artistic Gallery   | <b>Date:</b><br>Location: Gazipur sadar<br>Duration: 1(one) hours |
| <b>Intention:</b> Problem Identification and necessary for the system.   |   |
| <b>Problem 1:</b> Current system has no interaction with computer.<br><b>Problem 2:</b> No Home delivery is there. It would be include with the implementation of the system.<br><b>Problem 3:</b> Daily sales report generation is very much difficult task due to time consuming factor.<br><b>Requirement 1:</b> Management wants an e-commerce site from which receiving order as well as selling product is possible.<br><b>Requirement 2:</b> Sometimes management wants different type information by developing his/her own business more develop purpose. |   |

### 3.9 Use Case diagram

Use case describe sequence of action where two main component of a use case is use case and actors.

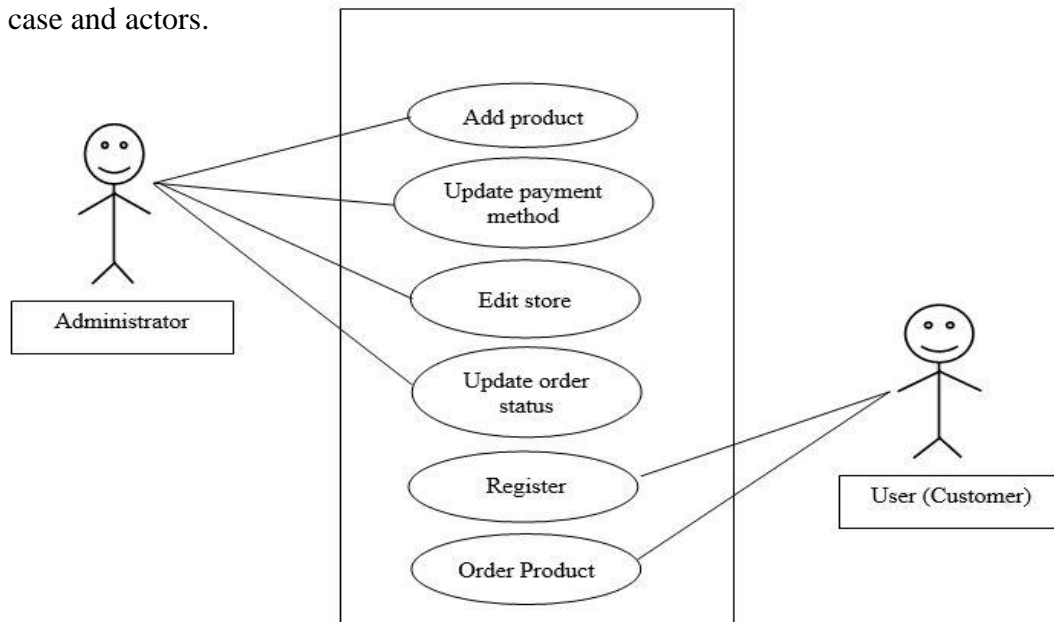


Figure 3.1 Current System



The above figure 3.1 is the use case of current system, which shows admin as well as user activity. Use can add product whereas customer can order and rate products. Administrator can also edit store information.

Table 3.3 Sales system of use case

|  |
|--|
| <p><b>Primary Actor:</b> Administrator</p> <p><b>Associate and dividend:</b></p> <p>Buyer: They are normal user. They can register and do orders.</p> <p>Delivery Boy: Take orders from admin and deliver it.</p> <p><b>Preconditions:</b> identify the user is proven.</p> <p><b>Favourable result:</b></p> <p>Guests do registration and order Gift.</p> <p>Admin check the orders.</p> <p>Delivery boy receives orders and sand it to destination.</p> <p>Receives the payment if it is cash on delivery.</p> |
|--|

### 3.10 Identify problem

It is very difficult for them to produce reports of daily sales or monthly sales by manual system. Manual system is many type of problems create and need long time to make a correct report.

#### 3.10.1 Main problems in current system

- There is no room for tracking of home delivery.
- The lack of existent database hampering the efficient running of transaction activities, as there is no centralized control over the whole existing system.
- There is no way to see the list of pending or delivered orders.

Nowadays, smooth control and management from remote place is a very popular system. This can provide extra facilities in a business system. Management also needs this kind of facilities that not exist in the current system.

### 3.10.2 Identify the management requirements

Management want daily, weekly, monthly, yearly base report.

- Management update system needed. As a result management can be understood what type of item is popular among consumer.
- Management want quickly base stock, sale, purchase delivery reports. Top management discussion purpose this report is very important.

### 3.11 Requirement catalogue

Table 3.4 Process 1

|                          |                      |
|--------------------------|----------------------|
| <b>Requirement ID</b>    | Process no 1         |
| <b>Requirement Name</b>  | Add user             |
| <b>Business Activity</b> | Registration of user |
| <b>Priority</b>          | Medium               |
| <b>Owner</b>             | Visiting guests      |
| <b>Benefits</b>          | User verified        |

Table 3.5 process 2

|                          |   |
|--------------------------|---|
| <b>Requirement ID</b>    | Process no 2  |
| <b>Requirement Name</b>  | Update user level   |
| <b>Business Activity</b> | Update the user level whether he is a normal user or in management. |
| <b>Priority</b>          | Medium  |
| <b>Owner</b>             | Administrator   |
| <b>Benefits</b>          | Needed for user level evolution.                                    |

Table 3.6 process 3

|                          |  |
|--------------------------|--|
| <b>Requirement ID</b>    | Process no 3                                 |
| <b>Requirement Name</b>  | Update user level                            |
| <b>Business Activity</b> | Checking of consumer orders and ensuring it. |
| <b>Priority</b>          | High   |
| <b>Owner</b>             | Administrator                                |
| <b>Benefits</b>          | Ensuring the delivery on time.               |

### 3.12 System Boundary

This project main goal is all manual system convert to computerized system including all task such as add product, product update, product status, all kind of reports etc. Another object is that proposed system will be defined the central database where all type of data store in a database. This system will be user friendly if database is centralized &also system helps admin to calculate daily transaction, weekly transaction, and monthly transaction, stoke products etc

### 3.13 Conclusion

From the above analysis of the current system it is understood that there is some wastage of effort, money & time and the system not running as required. Top management needs support to make decision. They also need a strong security, control and monitoring system. So, we have to introduce an e-commerce based online planning for efficient, secure and reliable performance that should help the business fast growing and increase their goodwill.

## CHAPTER 4

### DESIGN SPECIFICATION

#### 4.1 Design

Software design is a process of problem solving and planning for a software solution. After the purpose and specifications of software are determined, software developers will design or employ designers to develop a plan for a solution. It includes low-level component and algorithm implementation issues as well as the architectural view.

#### 4.2 Form Designing and its Description

In this Chapter, we are going to describe the forms that are designed for the project. For better understand of all general people it has try to elaborate all forms easily. First, the screen shots (Figure 4.1) will be given. In the following our project various form are designed and descript.

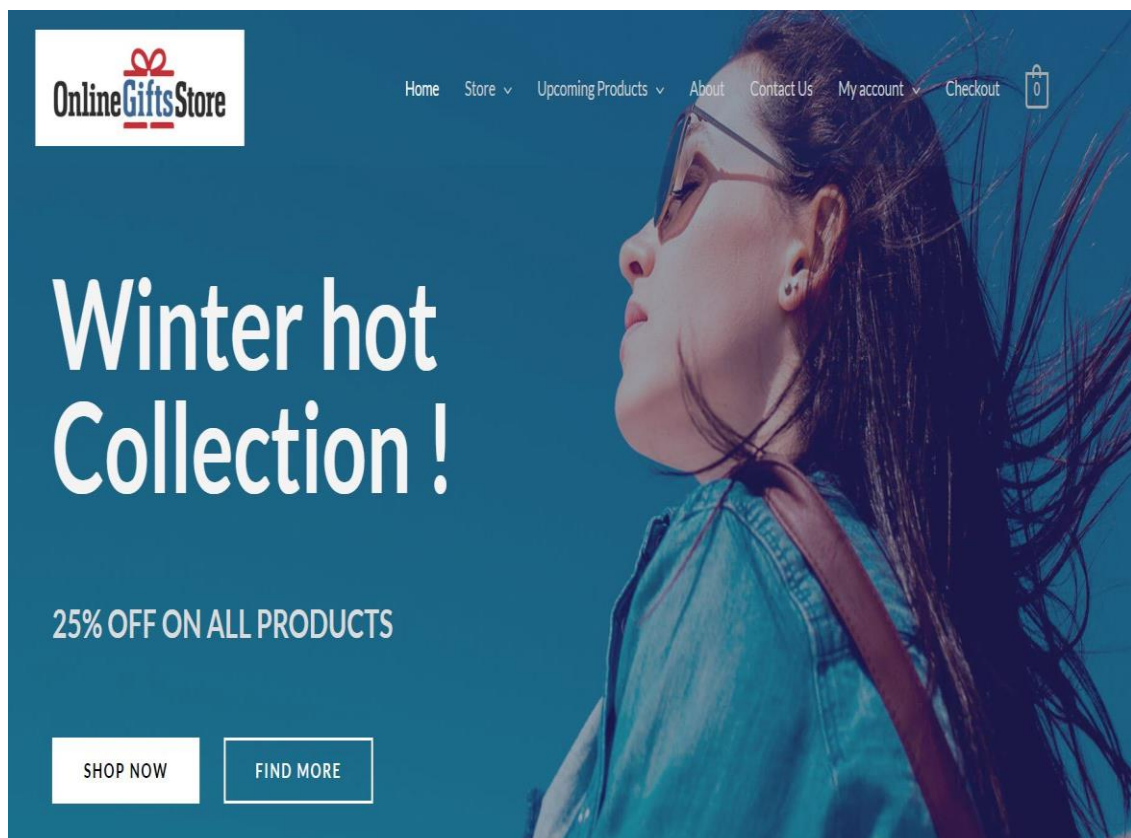


Figure 4.1 The website Home Page

The following Figure 4.2 shows user registration form:

### Login

Username or email address \*

Password \*

Remember me

[Lost your password?](#)

### Register

Username \*

Email address \*

A password will be sent to your email address.

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.

Figure 4.2 User Registration form

The following Figure 4.3 user List:

| ID | user_login | user_pass                       | user_nickname | user_email            | user_url                     | user_registered     | user_activation_key                         | user_status | display_name  |
|----|------------|---------------------------------|---------------|-----------------------|------------------------------|---------------------|---|-------------|---------------|
| 1  | ashrafu    | SP5BUIY1YkK7qA0Qk.c9pn7MLPCL0   | ashrafu       | ashrafu394@diu.edu.bd | http://localhost/ashrafu.com | 2019-11-03 15:38:20 |   | 0           | ashrafu       |
| 2  | prince     | SP5BF8EujanOLmmyLU0gW54vRN0ySj0 | prince        | prince@gmail.com      |                              | 2019-11-25 06:19:48 | 1574662790:SP5B032yRqTgAeRyblvs0CV5KEKEzq20 | 0           | Prince John   |
| 3  | Alraj      | SP5BLNAAQXoOnaU2mhdjCtw8HqSor91 | alraj         | alraj@yahoo.com       | http://localhost/ashrafu.com | 2019-11-25 06:21:59 | 1574662921:SP5B5ydbQ3LFWqC2WnN3Qgh8CHTEG7P0 | 0           | Mr Alraj Ayan |

Figure 4.3 User list

The following Figure 4.4 Log on module:

### New Customer

By creating an account you will be able to shop faster, be up to date on an order's status, and keep track of the orders you have previously made.

### Returning Customer

[Forget Password?](#)

Figure 4.4 Log on module

The following Figure 4.5 feature of products:

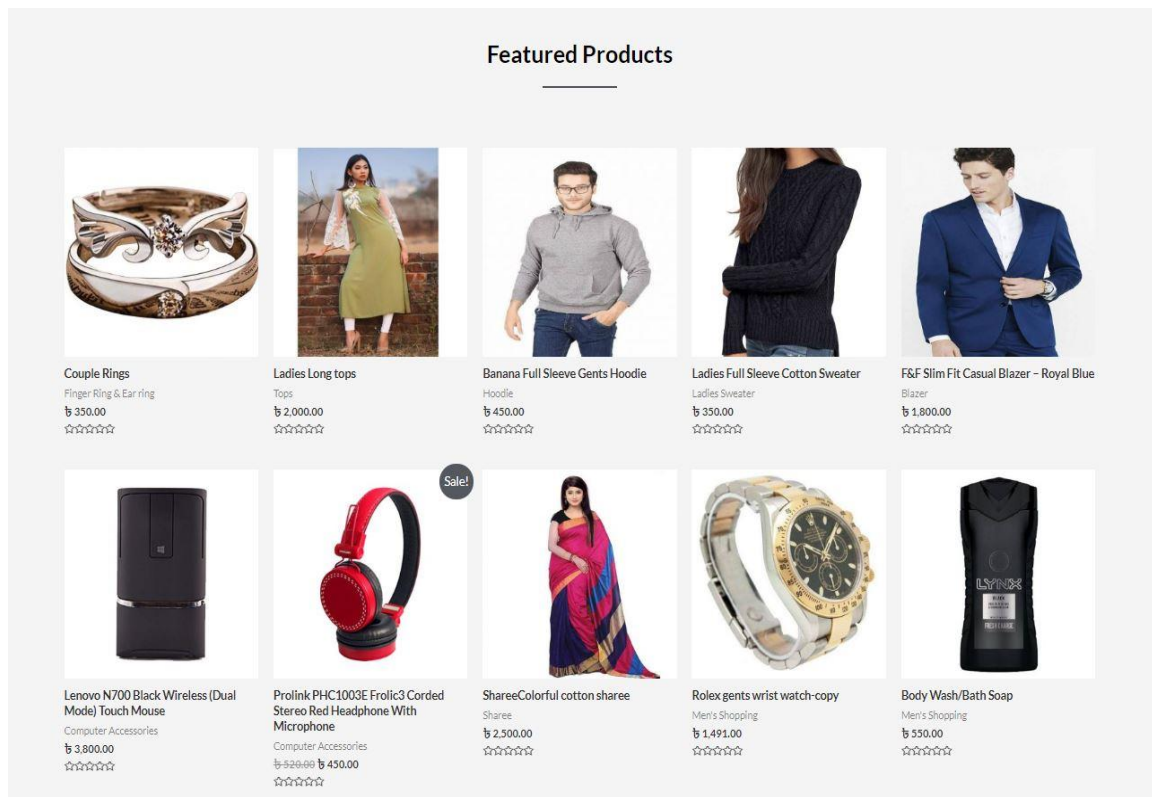


Figure 4.5 Product page

The following Figure 4.6 shows Admin login :

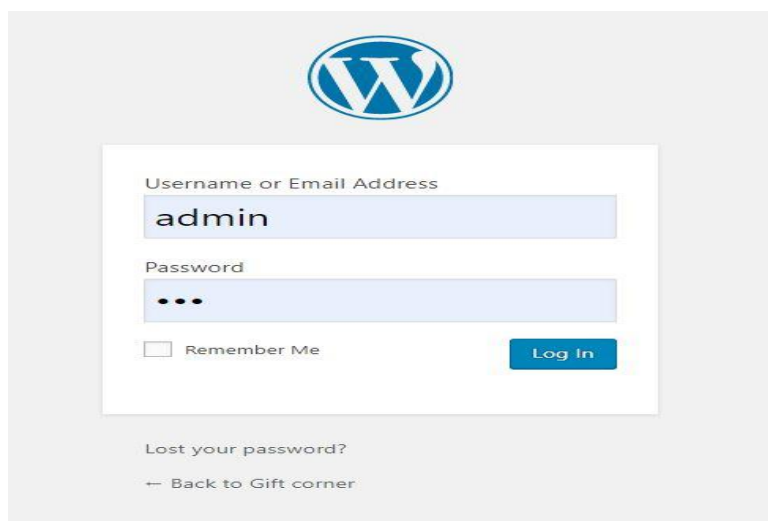


Figure 4.6 Administrator login

### 4.3 Database Design

This is most important feature is database design. Where database store, how many data input & output at a time, data store capacity, user login and registration data new product, new feature in a webpage etc. purpose needed database design. This web page I use SQL database.

### 4.4 Database Management system

A database management system (DBMS) consists of a collection of interrelated data and a set of programs to access those data. The collection of data usually referred to as database, content information about one particular enterprise.

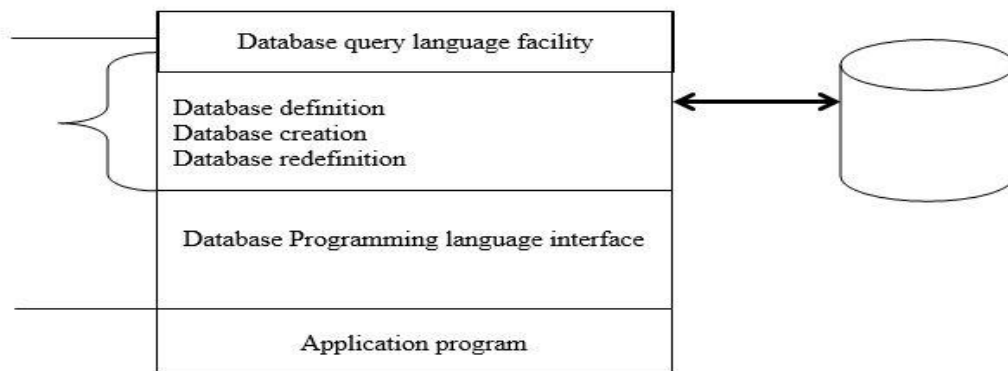


Figure 4.7 Conceptual model of a database management system

### 4.5 Purpose of database system

We use database system where user can access and modify data also provide user can abstract view of the data.

- Increase data consistency
- Protect the data from overnight
- Provide integrity
- Provide atomicity

- Provide concurrently access
- Provide security

#### **4.6 Relational Database**

Relation database is a set of formally describe the one table to other table. The goal of relational database is relation between one table to another table and also store data without unnecessary redundancy.

#### **4.7 Normalization**

Database normalization is the design technique or process where organize table manner that reduce redundancy and dependency data. It works large table to small table and relation with them.

#### **4.8 Data Modelling**

Data modelling is the collection of conceptual interrelated tools of information data object for describing data, the attributed that describe the data object, data relationship that connect data objects to another.

#### **4.9 Entity-Relationship Model**

The entity-relationship (E-R) data model is a high-level conceptual data model diagram. There are three basic notations that E-R data model employ:

- Entity sets: The entity set is a set of entities of the same type, which are unique.
- Relationship set: A relationship is an association among several entities.
- Attributes: The properties of an attribute are known as attribute.

#### **4.10 Entity Relationship Diagram**

The entity-relationship diagram (Figure. 4.8) of the gift shop management system given bellow:



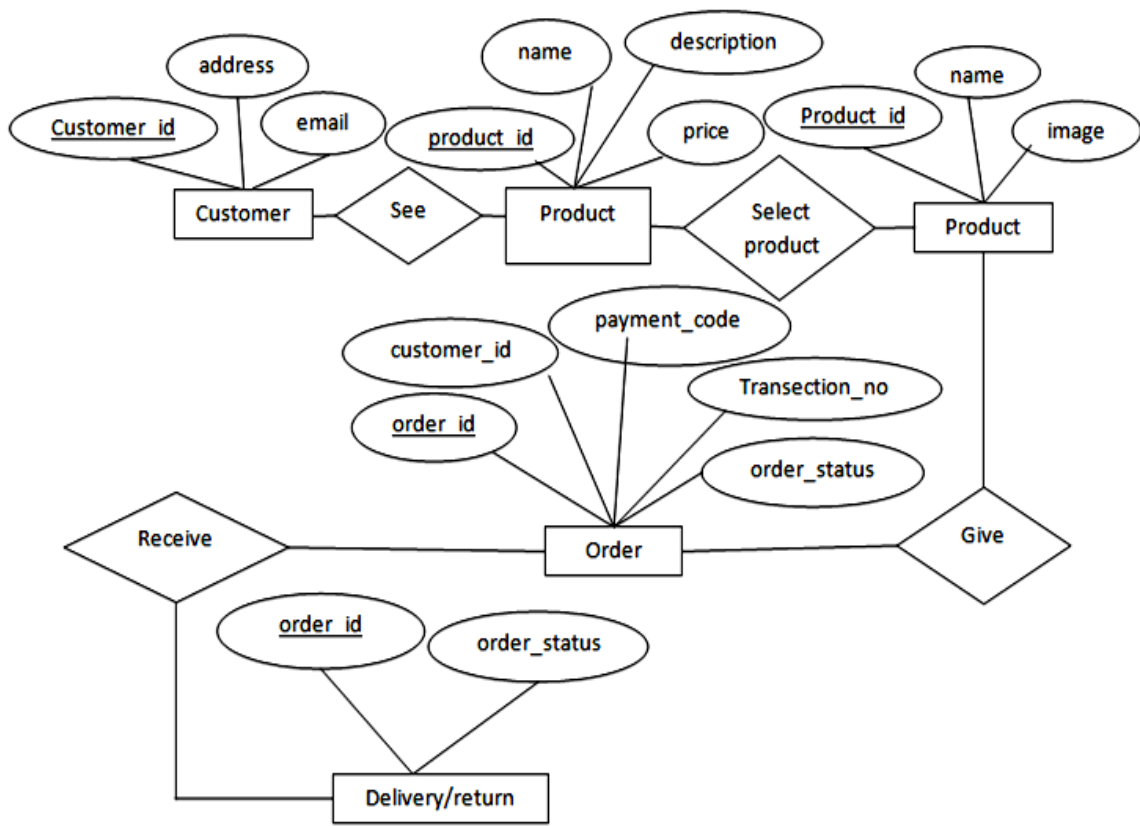


Figure 4.8 E-R Diagram to customer point of view

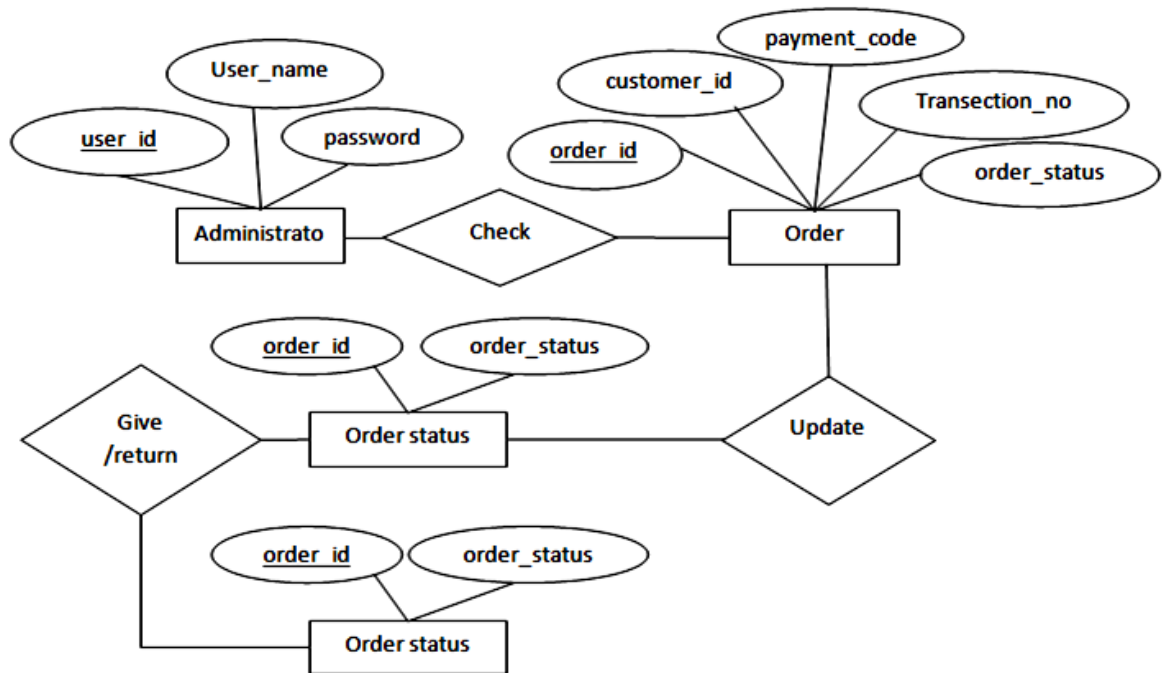


Figure 4.9 E-R Diagram to administrator point of view.

The above E-R diagram (Figure. 4.9) clearly represents the admin point of view. Here admin checks the payment, update order status and give orders to send the desired product to the specific address.

#### 4.11 Data flow Diagram (DFD):

Data flows Diagram (DFD) are given below (Figure. 4.10)

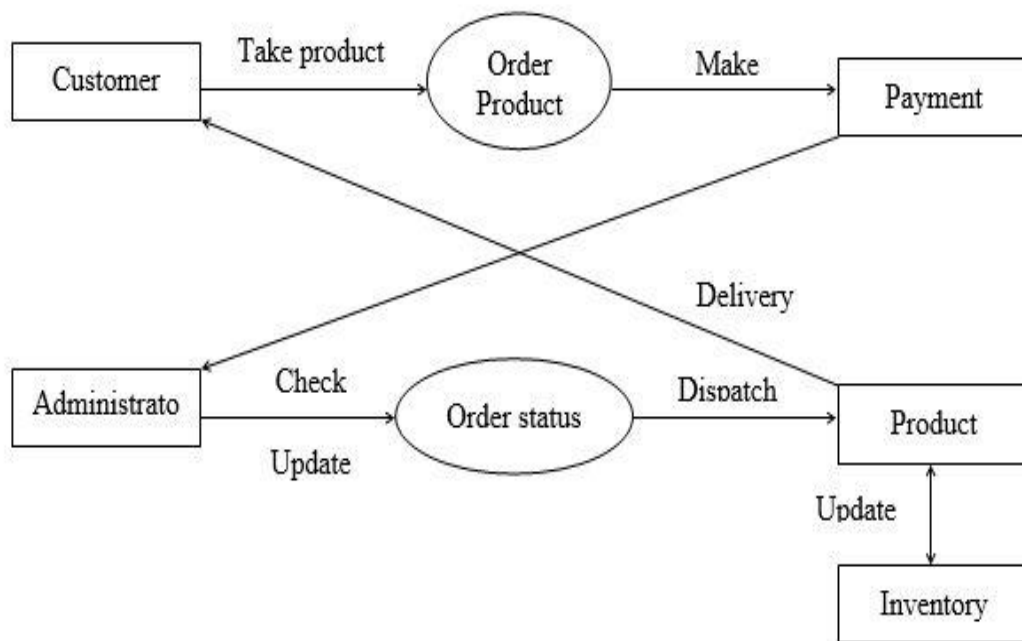


Figure 4.10 DFD of Gift Shop

#### 4.11 Conclusion

Design is implemented using the ERD diagram. This type of diagrams helps to design a system properly and more easily.

## CHAPTER 5

### IMPLEMENTATION AND TESTING

#### 5.1 Introduction

This project was to create an online gift shop management system which follows the B2C model. Some function should be allowing this website

- Specific every product should be product information correctly.
- Every customer should be able to register in website.
- The customer should have the ability to choice and add to cart.
- To buy product user should be register.
- Every customer should be able to secure transition.
- Design website should be user friendly and clear.
- Every customer should be able to buy any products from web site
- Every user information should be store in database.

#### 5.2 Implementation tools

This ecommerce website develop purpose I use WordPress, website design purpose use CSS3, and Ajax. And jQuery, JavaScript the user interaction. For the databases MS SQL and Oracle could be used.

##### **WordPress**

WordPress is a software which is open source creation tools. WordPress is very powerful blogging and website content management system. Now a days most of the website design by WordPress.

##### **PHP**

PHP is programming language. PHP meaning Hypertext Pre-processor (PHP). Developer use PHP for webpage dynamic content create purpose.

##### **HTML5**

HTML is mark-up language. The latest version is HTML5,

**CSS3:** Basically, CSS use Website design purpose. CSS3 is the latest the latest versions CSS.

## MySQL

MySQL is the most popular Open Source Relational SQL database management system. MySQL is one of the best RDBMS used for developing our web-based applications.

### 5.3 Implementing Environment

This project I use WordPress software which is open source software. Operating and programming purpose I use windows-10, xampp server, HTML5, CSS3, jQuery, MySQL database language. For local server user must be install WordPress xampp server or wamp server.

### 5.4 Issues of Implementation

Web page design purpose implement issues the system.

- ✓ **Index.php:** Every webpage index.php is default page. These pages are used to adding all pages in one page.
- ✓ **AddToCart.php:** This page are used to add product in a cart.
- ✓ **Cart.php:** This page is temporary store added product in cart and display products.
- ✓ **Home.php:** This page is displayed four products in every category.
- ✓ **Product.php:** This page is displayed all products in the store shorted by category.
- ✓ **Product details.php:** This page is displayed products details.
- ✓ **Signup.php:** This page use to register user.
- ✓ **Login.php:** This page is use to login the user account.
- ✓ **user\_home.php:** This page is registered/login user home page.

### 5.5 Testing

Any project testing is important. Without testing a project cannot be fulfil. This project is B2C type project where user & seller can buy/sell products online all of things are perfectly working this is the main issue.

- The project will be perfect when all software & requirement will be properly work and also functional and non-functional activities will be done.
- This is an ecommerce website, it is maintain is very important. This system should be user friendly otherwise customer can't shopping from online.
- Security test is that where customer can transition there fund. Test to see if their safety comes right.

## 5.6 Testing Methodology

This project test purpose use xampp server. Generally any project must be needed testing for output or error checking purpose. If any error occurred in the system that system not working properly.

Table 5.1 Laptop configuration

|                            |  |
|----------------------------|--|
| Windows Edition:           | Windows 10 professional  |
| Processor:                 | Pentium (R) Core(TM)i33217U CPU @ 1.80 GHz                               |
| RAM                        | 4.00 GB  |
| Operating System :         | Windows 10-64-bit Operating System                                       |
| Xampp Server Configuration | Apache Version : 2.4.41<br>PHP Version : 5.4.16<br>MySQL Version :5.6.12 |

### 5.6.1 Unit Testing

Unit test is that where all unit of software and all software test. There are two type of test black box and white box. This project I use black box testing. For any error and solution is given by black box.

## 5.6.2 System Testing

Total system in this project should be perfect and should be given best output.

- This is B2C type ecommerce site. Project established purpose first need system performance. System performance is that when a customer login webpage and browse different page they fill satisfaction to get this web site or not. If system performance (software & hardware) will be best performance that will be great for customer & Seller.
- Customer can easily login website and add cart there products and delivery feedback this is the issues. User want to user friendly website where they can easily buy their products. This system really customer friendly and user can use this sit in well, this is the fact. This site should be user-friendly where all options will be work properly

## 5.7 Result and Analysis

Table 5.2 Test Schedule

| Test cases                              | Input   | Output  | Actual Output               | Result | Action |
|---|---|---|-----------------------------|--------|--------|
| 1. Web pages<br>1.1 Page Display        | 1.1 Test purpose use following browsers<br>IE 10,11 version<br>11.3017134.0<br>Firefox 71.0b7(64 bit)<br>Google Chrome Version<br>78.0.3904.108 | 1.1 Web pages of this site are displayed correctly  | 1. Web page view correctly  | Pass   |        |
| 1.2 Adjustment to different resolutions | 1.2 Computer regulation use<br>800 x 600 PX<br>1280 x 768 PX<br>1400 x 1050 PX  | 1.2 Web page view correctly by different regulation | 1.2 Pages display correctly | Pass   |        |

|                             |   |  |  |   |  |
|-----------------------------|---|--|--|---|--|
| -----<br>1.3 This site link | -----<br>1.3 one by one check all links   | -----<br>1.3 should go to the redirected and linked pages  | -----<br>1.3 no broken link found  | -----<br>1.3 Pass   |  |
| <b>2. Login user</b>        | Correct username and password<br><br>-----<br>Correct Username and wrong password<br><br>-----<br>Incorrect Username and correct password | i) Should go to the user account page<br><br>-----<br>ii) Show error message please enter correct user name & password.<br><br>-----<br>iii) Give error message. Please enter correct user name & password.--<br><br>iv)give | i) same as expected output<br><br>-----<br>ii) same output<br><br>-----<br>iii) same as expected output<br><br>-----<br>iv) same | i) ok<br><br>-----<br>ii)Pass<br><br>-----<br>iii) Pass<br><br>-----<br>iv)Pass |  |

|   |   |   |   |                            |  |
|---|---|---|---|----------------------------|--|
|   | <p>-----</p> <p>Without any input any input sign in button</p>  | <p>error message</p> <p>-----</p> <p>v) filed must be not empty</p> | <p>as expected output</p> <p>-----</p> <p>v)same output</p> | <p>-----</p> <p>v)Pass</p> |  |
| <p><b>3. user registration:</b></p> <p>3.1 Registration form Check</p>      | <p>Tested for this web site registration form:</p> <p>3.1) Submit button press without any input data</p> | <p>3.1) Message show error message. please feel up the from</p>     | <p>3.1) same result</p>                                     | <p>3.1)Pass</p>            |  |
| <p>-----</p> <p>3.2) Registration form other components</p> <p>i) FName</p> | <p>-----</p> <p>i)when input this type of symbols (e.g.!,”,£,2,3,45,600,\$,%^,&amp;,*,(,),etc.</p>        | <p>-----</p> <p>i) Invalid data. Please input correct data</p>      | <p>-----</p> <p>i) Expected, message shows.</p>             | <p>-----</p> <p>i)Pass</p> |  |



|  |  |  |   |                              |   |
|--|--|--|---|------------------------------|---|
| -----<br>iii) Contact<br>Number check<br>----- | -----<br>iii) 'jnjds\$%%js',<br>'7776KKK1+0'<br>'asgys'£\$%^**&<br>'07832927578', etc.<br>-----                            | -----<br>iii) please<br>input<br>correct data<br>-----           | -----<br>iii) when<br>number<br>input then<br>its validate<br>----- | -----<br>iii)passed<br>----- |   |
| -----<br>iv)Checking for<br>E-Mail<br>-----    | -----<br>iv) when input data such as<br>(,./&^%\$#@!~ type<br>-----  | -----<br>iv) Please<br>inter valid<br>email<br>address.<br>----- | -----<br>iv) Output<br>is not get<br>as<br>expected.<br>-----       | -----<br>iv) failed<br>----- | -----<br>Change<br>code of<br>validate<br>domain<br>name<br>----- |
| -----<br>v)Checking for<br>password<br>-----   | -----<br>v) Any type of password but<br>must be one capital, one<br>small, one number (A-Z, a-<br>z, 0-9) needed.<br>----- | -----<br>v) password<br>not matches<br>-----                     | -----<br>v)<br>Password<br>not match.<br>-----                      | -----<br>v)pass<br>-----     |   |

### 5.8 System Testing Results

The following Figure 5.1 shows choosing product and add to cart

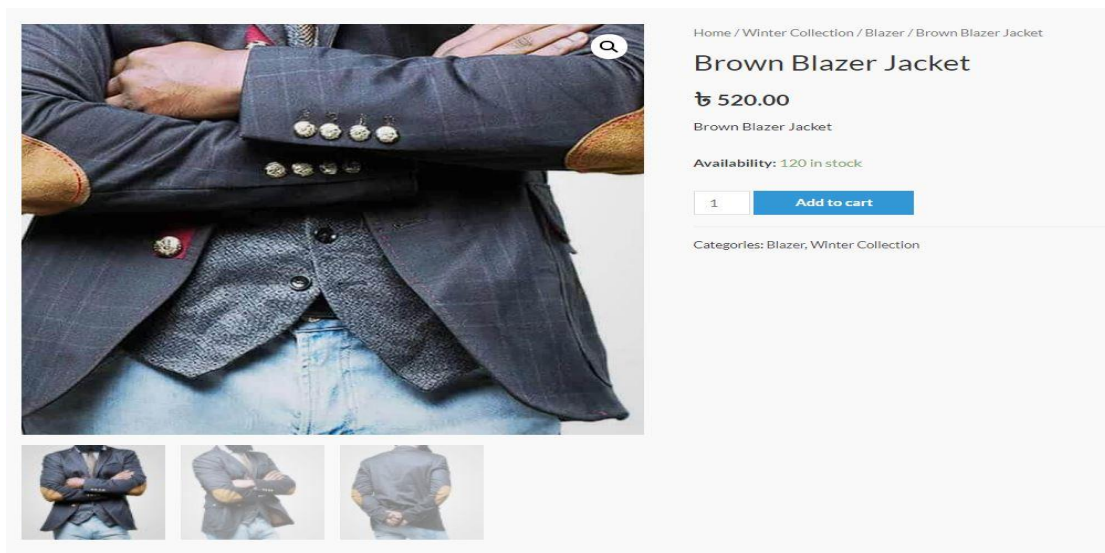


Figure 5.1 Product details and adding cart

The following Figure 5.2 shows Shopping cart:

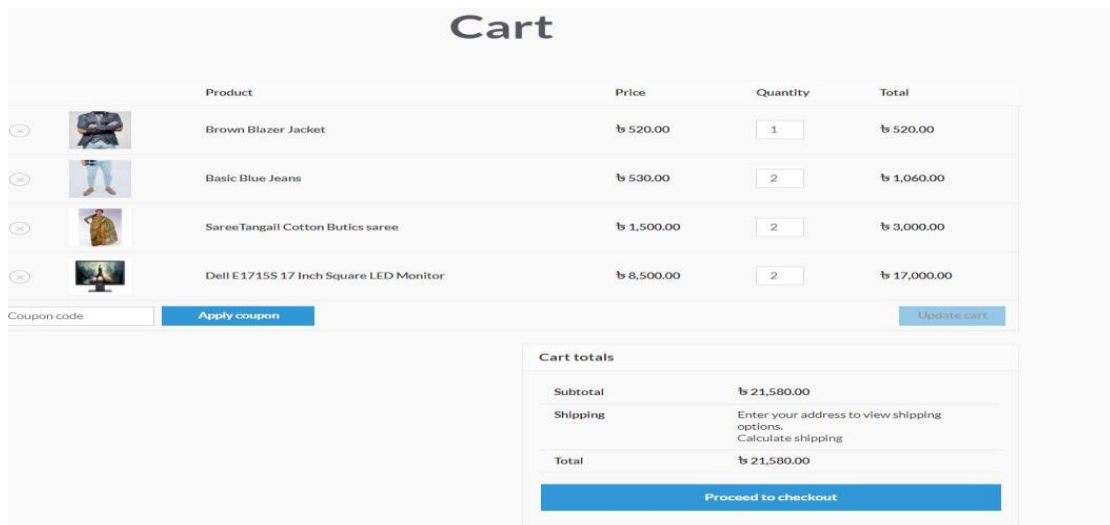


Figure 5.2 Shopping cart the following

Figure 5.3 shows Checkout form:

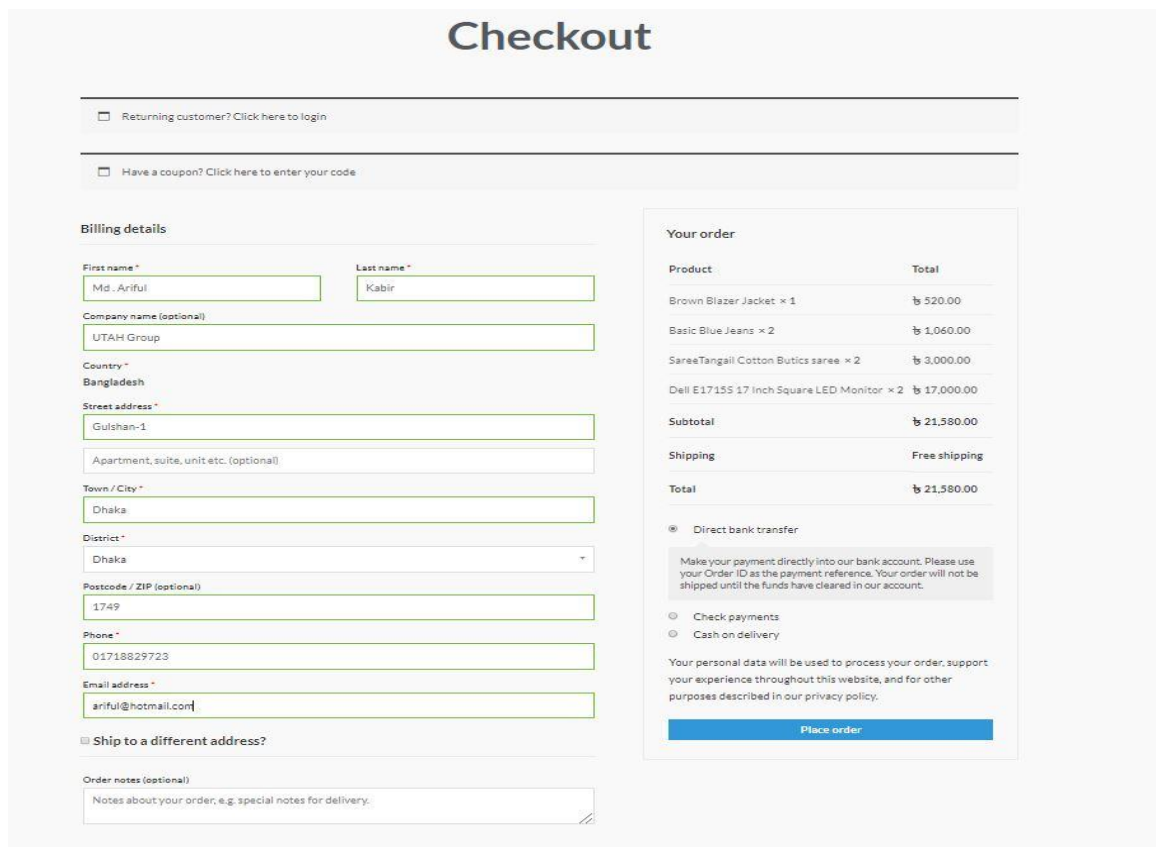


Figure 5.3 Checkout form

## CHAPTER 6

### CONCLUSION AND FUTURE WORK

#### 6.1 Limitations

Ecommerce has becoming more popular in Bangladesh. Ecommerce website where buyer and seller both of are benefited but it has some limitations such as

- High start-up cost
- Transaction Security
- Uncertainty and lack of information
- Tax Issue
- Product Suitability
- High Labour Cost
- Huge Technological Cost
- Needed expert person for maintain webpage

#### 6.2 Strength of the Project

E-commerce businesses have benefits such as.....

- Lower Transaction Cost and Higher Margin
- Quick Delivery
- Saving of Time and Effort
- Large Reaching Capacities
- Quick Supplies
- Customer Convenience
- Launching of New Products

#### 6.3 Learning from the project

I have lot of learn from this project. Some of things new, some of them are old things are realized by this project such as...

- WordPress install in local host.
- WordPress theme development.
- Theme related plug-in install (such as: woocommerce, WP Add Custom CSS, WooCommerce Admin, WPForms Lite etc.)
- Responsive WordPress theme development.
- Logo design.
- Blog & products update.
- Registration from & log in page.
- Using PHP, HTML, HTML5, CSS, CSS3, JavaScript.

#### **6.4 Future work**

A web site can be good or bad. It depends on the developer. And the language of the web site can be changed. The language of the web site that I developed is HTML CSS JavaScript and PHP. The feature of the web site can change according to the company's requirement. It can add some more features or remove some features on the web site.

#### **6.5 conclusion**

After successful completion of the project I have found that the computerized system for B2C E-Commerce is helpful for gift shop. The new system is gives better service to produce different reports and answer different queries. The overall computerized system for E-Commerce has met all the requirements. The system has been successfully setup. There is no user's resistance towards the computerized promotion system for B2C E-Commerce although at the user is quite unfamiliar about how to use the system. Giving appropriate training and guidance during the installation of the system has solved this problem. Furthermore the system has been kept flexible in order to keep it open for future upgrading.

## APPENDIX A: GLOSSARY

**SDLC:** System development is a project management model where planning, design development, operation, maintenance integration and testing is directly involve. Without any of them project not fulfil. This is the cycle where a project should give any project high quality output.

**USE case diagram:** A use case is a description of set of sequence of action that a system performs that yields an observable result of value to a particular actor. A use case diagram displays the relationship among actors and use cases

**E-R diagram:** E-R means entity relationship. Entity relationship diagram shows the relationship with the two entity or more.

**Normalization:** Database normalization is the design technique or process where organize table manner that reduce redundancy and dependency data. It works large table to small table and relation with them.

**DFD:** DFD is data follow diagram. This is the process where provide information about the output. This is a way of representing data of a process or system.

**Framework:** Framework is particular set of rules or ideas which use to deal with problems and decide what to do. Software framework is abstraction in which software providing generic functionality.

## APPENDIX B: INVESTIGATION OF EXISTING SYSTEM

www.amazon.com

UI has been shown in the following figure B-1.

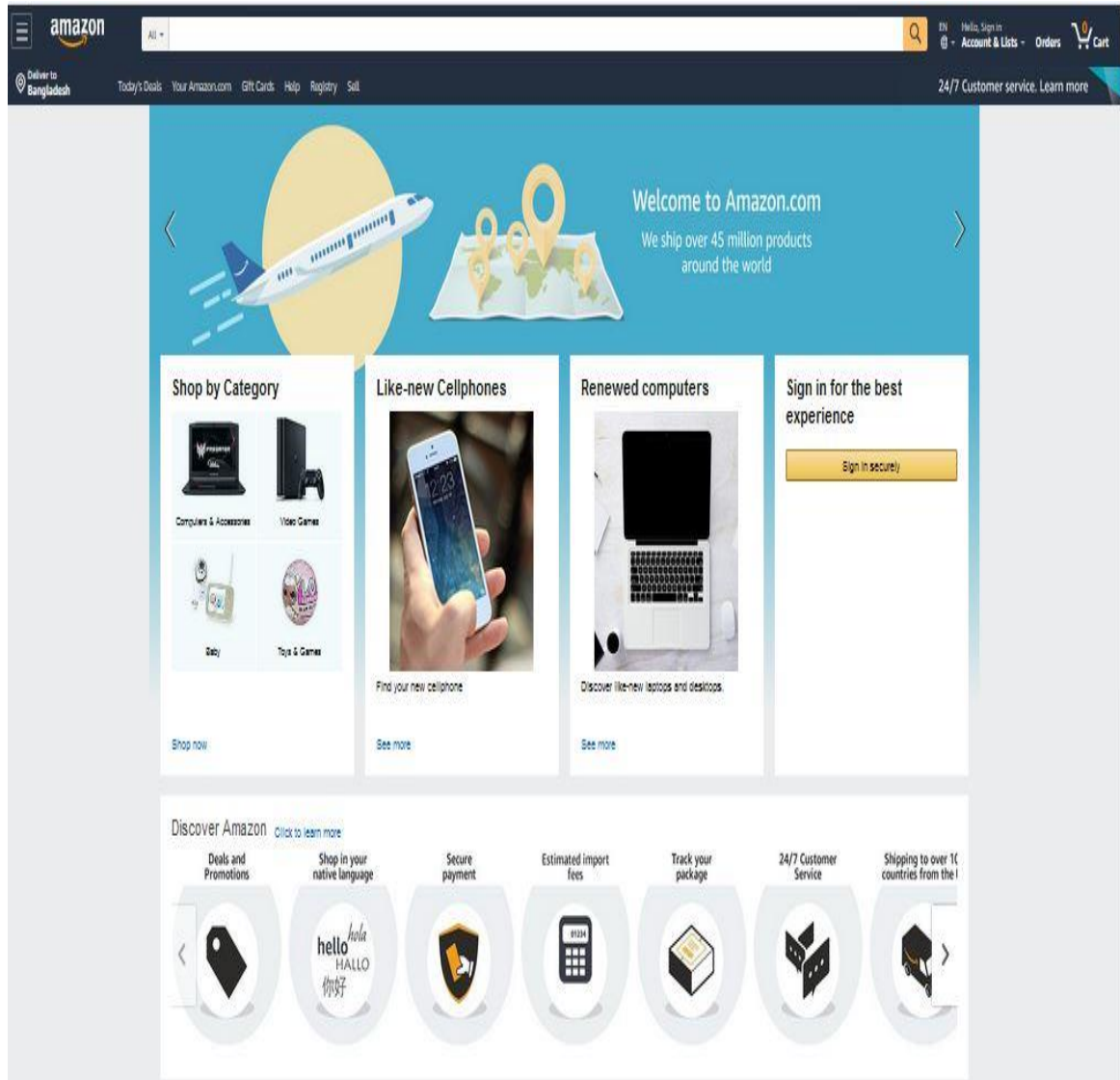


Figure B- 1 www.amazon.com

www.alibaba.com

UI has been shown in the following figure B-2

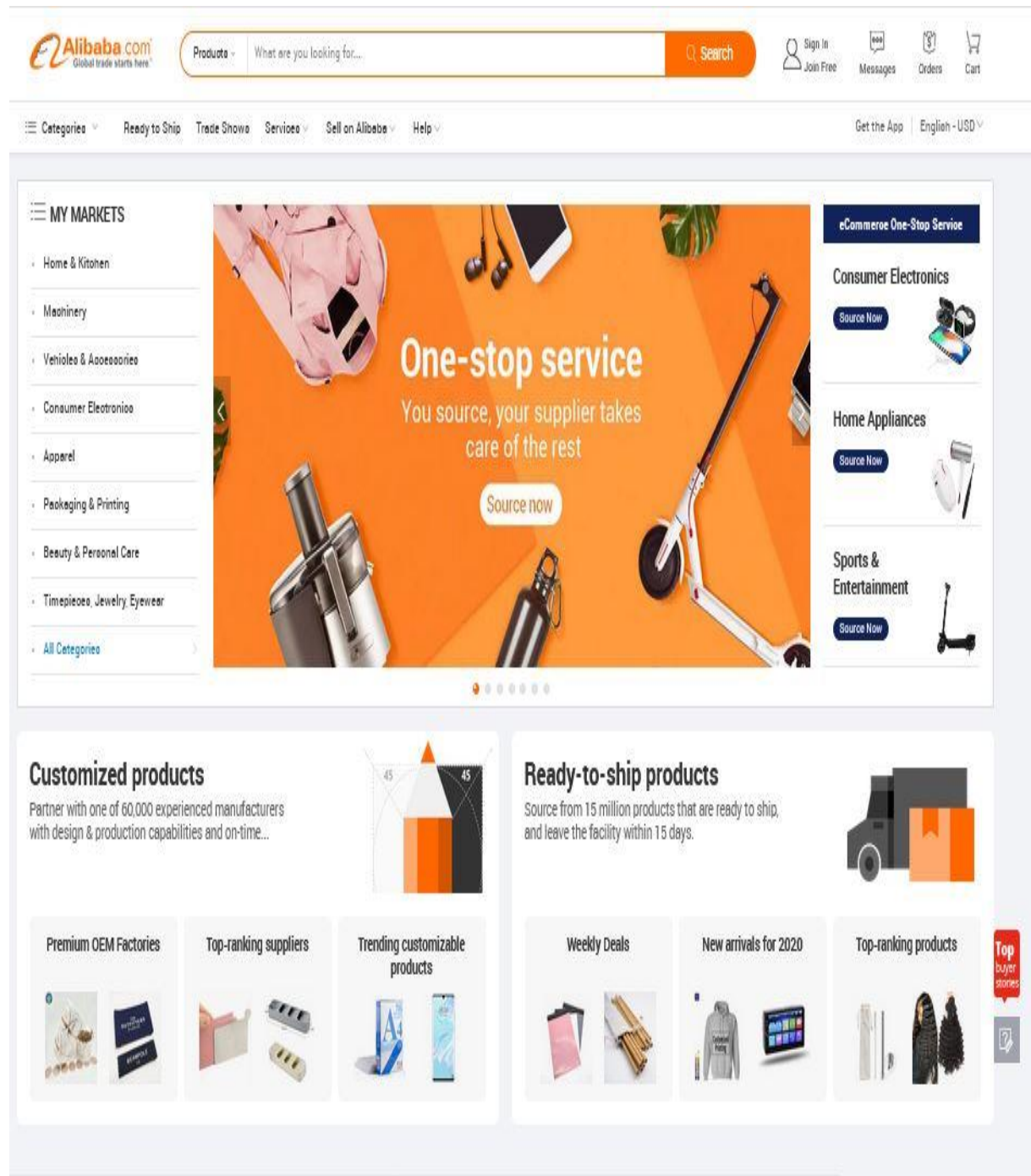


Figure B- 2 www.alibaba.com

www.daraz.com

www.ebay.com UI has been shows in the following figure B-3.

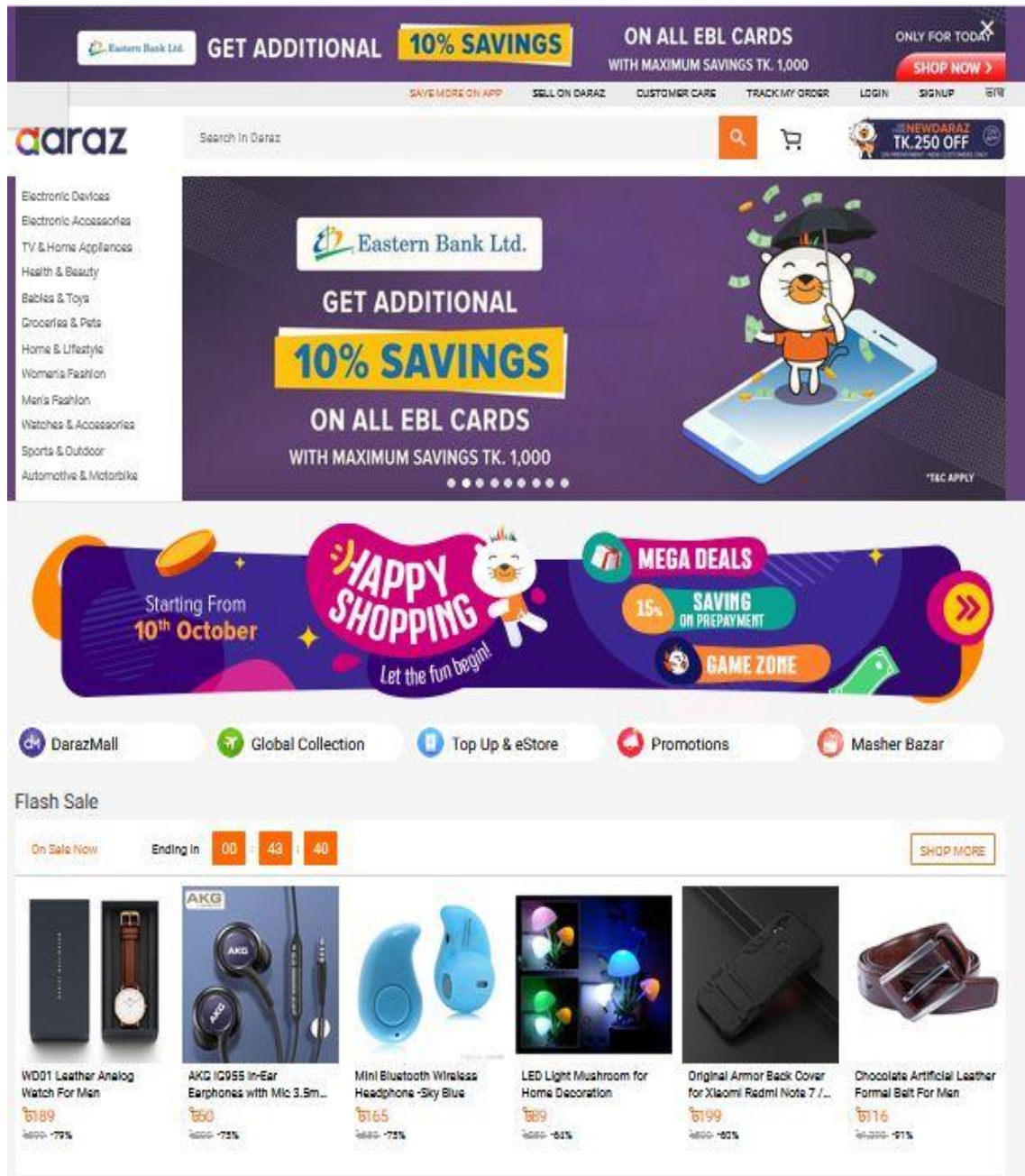


Figure B- 3 www.daraz.com



[www.pickaboo.com](http://www.pickaboo.com)

UI has been shown in the following figure B-4

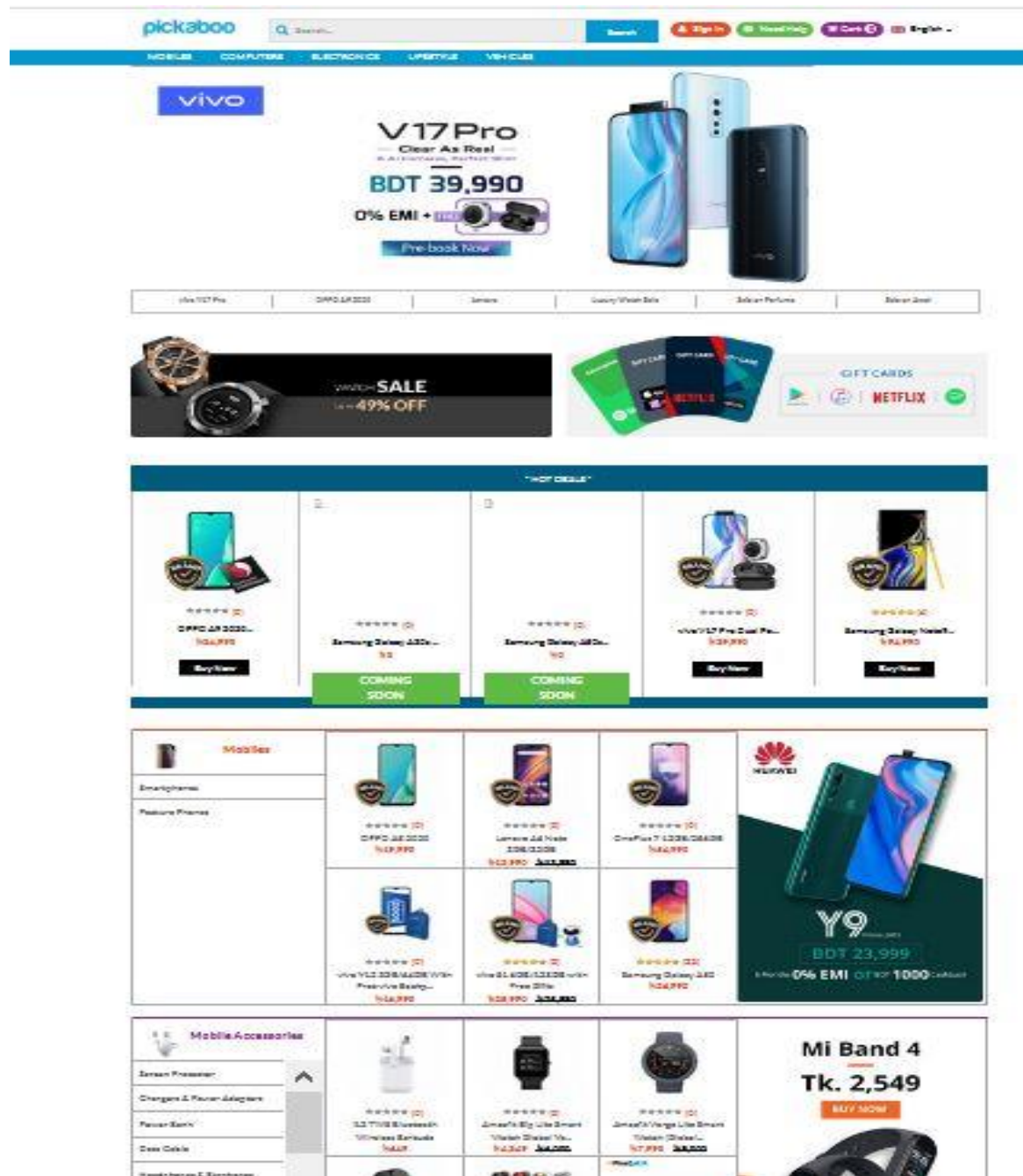


Figure B- 4 [www.pickaboo.com](http://www.pickaboo.com)

## APPENDIX C: DATABASE DESIGN

TABLE C-1: CATEGORIES TABLE

| # | Name                      | Type         | Collation       | Attributes | Null | Default | Extra          |
|---|---------------------------|--------------|-----------------|------------|------|---------|----------------|
| 1 | <b><u>category_id</u></b> | int(11)      |                 |            | No   | None    | AUTO_INCREMENT |
| 2 | <b>name</b>               | varchar(255) | utf8_general_ci |            | No   | None    |                |
| 3 | <b>description</b>        | text         | utf8_general_ci |            | No   | None    |                |
| 4 | <b>meta_description</b>   | varchar(255) | utf8_general_ci |            | No   | None    |                |
| 5 | <b>meta_keyword</b>       | varchar(255) | utf8_general_ci |            | No   | None    |                |
| 6 | <b>status</b>             | int(1)       |                 |            | No   | 1       |                |
| 7 | <b>image</b>              | varchar(250) | utf8_general_ci |            | No   | None    |                |
| 8 | <b>sort_order</b>         | int(2)       |                 |            | No   | None    |                |

Table C-2: Order Table

| Name                    | Type         | Collation       | Attributes | Null | Default | Extra          |
|-------------------------|--------------|-----------------|------------|------|---------|----------------|
| <b><u>order_id</u></b>  | int(11)      |                 |            | No   | None    | AUTO_INCREMENT |
| <b>invoice</b>          | varchar(26)  | utf8_general_ci |            | No   | None    |                |
| <b>customer_id</b>      | int(11)      |                 |            | No   | 0       |                |
| <b>email</b>            | varchar(96)  | utf8_general_ci |            | No   | None    |                |
| <b>mobile_no</b>        | varchar(32)  | utf8_general_ci |            | No   | None    |                |
| <b>payment_code</b>     | varchar(128) | utf8_general_ci |            | No   | None    |                |
| <b>txn_number</b>       | varchar(100) | utf8_general_ci |            | No   | None    |                |
| <b>shipping_name</b>    | varchar(32)  | utf8_general_ci |            | No   | None    |                |
| <b>shipping_address</b> | varchar(128) | utf8_general_ci |            | No   | None    |                |
| <b>order_status_id</b>  | int(11)      |                 |            | No   | 1       |                |
| <b>total</b>            | int(15)      |                 |            | No   | 0       |                |
| <b>date_added</b>       | varchar(20)  | utf8_general_ci |            | No   | None    |                |
| <b>WantedDate</b>       | varchar(20)  | utf8_general_ci |            | No   | None    |                |

Table C-3: Order Item Table

| # | Name                           | Type          | Collation       | Attributes | Null | Default | Extra          |
|---|--------------------------------|---------------|-----------------|------------|------|---------|----------------|
| 1 | <b><u>order_product_id</u></b> | int(11)       |                 |            | No   | None    | AUTO_INCREMENT |
| 2 | <b>order_id</b>                | int(11)       |                 |            | No   | None    |                |
| 3 | <b>product_id</b>              | int(11)       |                 |            | No   | None    |                |
| 4 | <b>name</b>                    | varchar(255)  | utf8_general_ci |            | No   | None    |                |
| 5 | <b>quantity</b>                | int(4)        |                 |            | No   | None    |                |
| 6 | <b>price</b>                   | decimal(15,4) |                 |            | No   | 0.0000  |                |
| 7 | <b>total</b>                   | decimal(15,4) |                 |            | No   | 0.0000  |                |

Table C- 4: Admin Table

| Name                  | Type         | Collation       | Attributes | Null | Default           | Extra          |
|-----------------------|--------------|-----------------|------------|------|-------------------|----------------|
| <b><u>user_id</u></b> | int(11)      |                 |            | No   | None              | AUTO_INCREMENT |
| <b>username</b>       | varchar(20)  | utf8_general_ci |            | No   | None              |                |
| <b>password</b>       | varchar(40)  | utf8_general_ci |            | No   | None              |                |
| <b>name</b>           | varchar(100) | utf8_general_ci |            | No   | None              |                |
| <b>type</b>           | varchar(32)  | utf8_general_ci |            | No   | None              |                |
| <b>email</b>          | varchar(96)  | utf8_general_ci |            | No   | None              |                |
| <b>status</b>         | tinyint(1)   |                 |            | No   | None              |                |
| <b>date_added</b>     | datetime     |                 |            | No   | CURRENT_TIMESTAMP |                |

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