

# Prominent-Tech

## E-Commerce Site for Electronic Goods

### Prepared by:

Name: Shah Newaj	ID# 011 132 141
Name: Shamima Sharmin	ID# 011 112 019
Name: Nurjahan Begum	ID# 011 123 046
Name: Maliha Yeasmin	ID# 011 123 049

Under the supervision of

**Suman Ahmmed**  
Assistant Professor, CSE  
Director, CDIP  
United International University



**United International University**

# **Declaration**

This is to certify that this project is our original work. No part of this has been submitted elsewhere partially or fully for the award of any other degree. Any material reproduced in this project has been properly acknowledged.

## **Student's Name Signature**

---

Shah Newaj

---

Shamima Sharmin

---

Nurjahan Begum

---

Maliha Yeasmin

# **Approval**

The Software Project titled “Prominent-Tech” has been submitted to the following respected members of the Board of Examiners of the Faculty of Computer Science in partial fulfillment of the requirements for the degree of Bachelor of Science in Computer Science and engineering on Date – by the following students and has been accepted satisfactory.

---

**Suman Ahmmed**

Assistant Professor, CSE

Director, CDIP

United International University

## **Acknowledgement**

*We express our heartiest gratitude to ALLAH for his divine blessing, which helped us to complete this project successfully.*

*We are very grateful to our honorable project supervisor Suman Ahmmed, Assistant Professor, Department of Computer Science & Engineering, United International University for his continuous support, assistance, instruction and encouragement without whom our work would not have completed.*

*We are individually appreciated being on the “Online Leave Management System” team, where we have learned a lot about the inner workings of this project.*

# **TABLE OF CONTENTS**

## **Chapter - 1**

<b>1. Introduction .....</b>	<b>7</b>
1.1 Abstract .....	8
1.2 Background Study .....	9

## **Chapter - 2**

<b>2. Project Overview .....</b>	<b>10</b>
2.1 Objectives .....	10
2.1.1 General Objectives .....	10
2.1.2 Specific Objectives .....	10
2.1.3 Justification .....	10
2.2 Scope of Study .....	11
2.3 Development Model .....	11
2.4 Benchmark systems VS Our Proposed System .....	12

## **Chapter – 3**

<b>3. Software Requirements Specification .....</b>	<b>13</b>
3.1 Feature List .....	13
3.1.1 Visitor .....	13
3.1.2 Admin .....	13
3.2 Software Requirements Specification (SRS) .....	14
3.2.1 User Requirements .....	14
3.2.2 User Interface Requirements .....	14
3.2.3 Functional Requirements .....	14
3.2.4 Non-Functional Requirements .....	15
3.2.5 System Level Requirements .....	15

## **Chapter – 4**

<b>4. Development &amp; Design .....</b>	<b>16</b>
4.1 Database Design .....	16
4.2 ER Diagram .....	17
4.3 Project Modules .....	18
4.4 Diagrams .....	19
4.4.1 Use Case Diagrams .....	19
4.4.2 Activity Diagrams .....	22

## **Chapter – 5**

<b>5. Technology &amp; Screenshots .....</b>	<b>23</b>
5.1 Technology .....	23
5.2 Screenshots .....	24

## **Chapter – 6**

<b>5. Conclusion &amp; Reference.....</b>	<b>35</b>
---	-----------

# Chapter – 1

## 1.Introduction

**E Commerce** stands for electronic commerce and caters to trading in goods and services through the electronic medium such as internet, mobile or any other computer network. E-commerce (electronic commerce or EC) is the buying and selling of goods and services, or the transmitting of funds or data, over an electronic network, primarily the internet. These business transactions occur either as business-to-business, business-to-consumer, consumer-to-consumer or consumer-to-business. The terms e-commerce and e-business are often used interchangeably

At present we have access to almost every items of our daily lives on the internet. It doesn't matter if one is educated or illiterate, in Bangladesh or in U.S.A; all you need is an internet connection. With e-commerce website, you can buy almost anything you wish. Now human life has evolved to adapt to the digital world and hence trading over the internet. As seen, pair of shoes, cars, bikes, smart phones, computers, we have everything on sale on the internet. Amazon, eBay, Alibaba etc are some of the most popular e-commerce websites in the whole world.

## **1.1 Abstract**

E-commerce is fast gaining ground as an accepted and used business paradigm. Daily lots of business companies are implementing web sites over the web. Now we can say that the process of shopping on the website is becoming popular, easy and common place.

Online electronic Store is an online web application where the customer can purchase electronic device online. Through a web browser the customers can search for items online by its name and later can add to the shopping cart. The user can login using his username or email and password. And new customers can sign up very easily. They should give the details of their user name, email and password.

In order to develop an e-commerce website, few Technologies must be studied and understood. These include server and client side scripting languages, implementation frameworks such as [Laravel](#), programming language (such as [PHP](#)), [ajax](#) and [jQuery](#).

This document will discuss each of the underlying technologies to create and implement an ecommerce website.

## **1.2 Background Study**

People find it quite difficult and lots of work to find a desirable product physically by going to market to market. Its easier for them to search internet for the specific product for details and its saves their lots of important time and money. At present online shopping is very popular among all sectors of people because it saves money and time and they get desired product by home delivery.

We have studied few sites which helped us to design this manageable Project. Below are the links given those we researched-

- 1. amazon.com**
- 2. ebay.com**
- 3. daraz.com.bd**
- 4. ajkerdeal.com**
- 5. pickaboo.com**

# Chapter – 2

## 2.Project Overview

In this section we will discuss about the objectives and scope of study of ecommerce site.

### 2.1 Objectives

Mainly we have two objectives with justification. They are general objectives and specific objectives. They are below:

#### 2.1.1 General Objectives

At present, **E-Commerce** is the most wide spread and popular business sector. Its an online buying and selling process so its needs are as simple as the business means. Products quality, Customer reaching, High sales and on time delivery are some of the basic needs of any E-commerce Site business.

#### 2.1.2 Specific Objectives

- User can visit site for products
- User have to sign up and log in to checkout
- User will get home delivery
- User can pay online with easy payment method
- Admin can add and view products
- Admin can add and view categories

#### 2.1.3 Justification

- This system is user friendly, free of cost and time efficient.
- User can update address and password.
- User can see pending orders

## 2.2 Scope of Study

E-Commerce is more than just buying and selling products online. It also includes the entire online process of developing, marketing, selling, delivering, servicing and paying for products and services. Bangladesh has shown tremendous growth in the E-commerce segment.

E-commerce creates new opportunities for new start-ups. Ease of Internet access, Safe and secure payment modes by E-Commerce Giants has revolutionized this segment. Tremendous development in mobile technology has given way to Mobile Commerce with many E-Commerce companies shifting to App only model.

## 2.3 Development Model

We followed waterfall model to develop our whole project. Few reasons to choose this model,

- This model is simple and easy to understand and use.
- It is easy to manage due to the rigidity of the model – each phase has specific deliverables and a review process.
- In this model phases are processed and completed one at a time. Phases do not overlap.
- Waterfall model works well for smaller projects where requirements are very well understood.

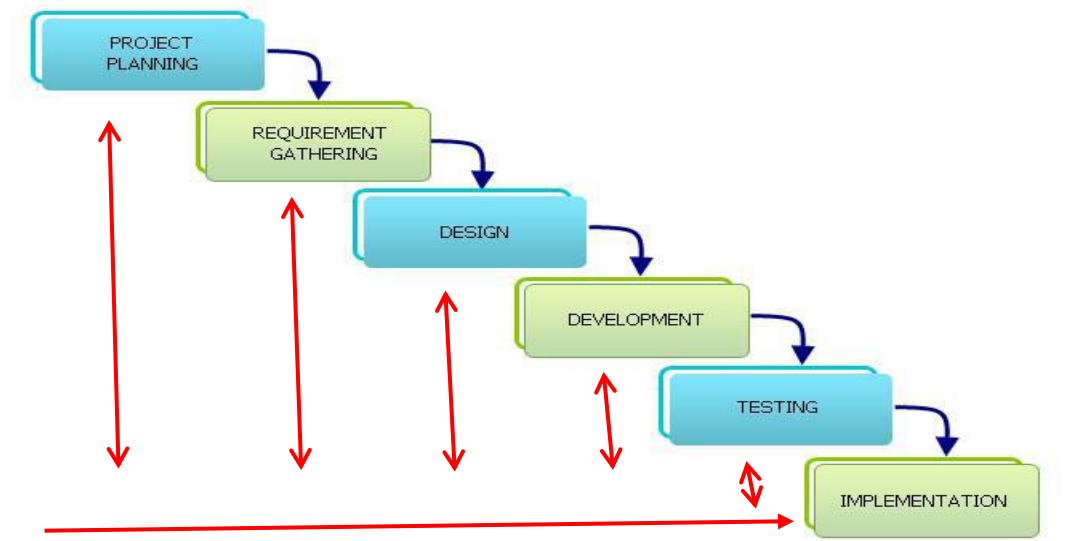


Fig: Waterfall Model

## 2.4 Benchmark systems VS Our Proposed System

We studied few systems to gather proper information to build our project. We used some extra features in our project that these systems does not have. It helps us a lot to learn new ideas, features and update trend.

Features						Proposed Project
Log In and Sign Up						
Auto Complete Search Box						
Auto Complete Price Range						
Wishlist						
360 view Image						
Image Auto Rotation						
Cart Auto Update						
Recommendation						
Review without Login						
Rating System						

# Chapter – 3

## 3. Software Requirements Specification

There are few requirements to build a better software. In this section we will discuss requirements with feature list and various kind of requirements like user requirements, functional requirements and non-functional requirements etc.

### 3.1 Feature List

#### 3.1.1 Visitor Panel

- Visitors can see any product details without Login.
- Visitors can add the products into cart.
- Visitors can increase or decrease the quantity of the products in cart.
- Visitors can remove items from cart if necessary.
- Visitors can write review for any products without Login.
- Visitors can search products without browse
- Visitors can specify price range and brand for products.
- Email verification is compulsory to Login.
- Registered users can see orders and address in user profile.
- Registered users can update address and password in user profile.
- Registered users can add the products into Wishlist and remove from Wishlist.

#### 3.1.2 Admin Panel

- Admin can add product into database.
- Admin can view, edit and delete the products.
- Admin can add category for products.
- Admin can view, edit and delete the categories.

## **3.2 System Requirements Specification**

### **3.2.1 User Requirements**

The system will be designed to be user friendly. The user friendly and interactive interfaces design helps to achieve this by enabling visitor to easily browse for required products. Admin can add products and view them. This system will be simple to use.

- User should be able to navigate the system without any difficulty.
- System supports English majorly (minimum fluency required).
- User should be able to order products easily.

### **3.2.2 User Interface Requirements**

- The system must be a graphical user interface for easy use and understanding.
- The system must be able to prompt the user for the next step to be performed during the process of using the system.

### **3.2.3 Functional requirements**

Functional requirements define the capabilities and functions that a system must be able to perform successfully. The functional requirements of this online recruitment system include:

- The system shall enable the employees to view the products, create an account, login to the system and order.
- The system shall provide the facility to change or update password.
- The system shall provide facility to the admin that they can add products and view the products.

### **3.2.4 Non-functional requirements**

A non-functional requirement is a requirement that specifies criteria that can be used to judge the operation of a system, rather than specific behaviors. Some of the non-functional requirements include:

- There should be sufficient network bandwidth
- Backup- provision for data backup
- Maintainability- easy to maintain
- Performance/ response time- fast response
- Usability by target user community- easy to use
- Expandability- needs to be future proof or upgradable
- Safety- should be safe to use

### **3.2.5 System Level Requirements**

- System-level requirements are assigned to elements in the system architecture, which in turn, flow down to subsystem elements. Appropriate test requirements are generated at each level of the system development.
- System will be available for 24hrs.
- Admin can add products and view them any time.
- Visitors can register, login and order products anytime.

# Chapter – 4

## 4.Development & Design

In our system we used Laravel 5.4 MVC framework as a development platform. This framework helps developers build applications that adhere to the MVC pattern. This framework has added functionality like Html Helpers, validators, attribute based model validation and dependency injection, which in turn improved testability and much more.

### 4.2 Database Design

Database is the most important thing because without database we cannot store our site information. Everything on ecommerce site will come from database. So we need proper design and different tables for our various purpose to show in our project. The tables with columns we used in our project are listed below:

#### **Database Scheme - Database Name: easybuy**

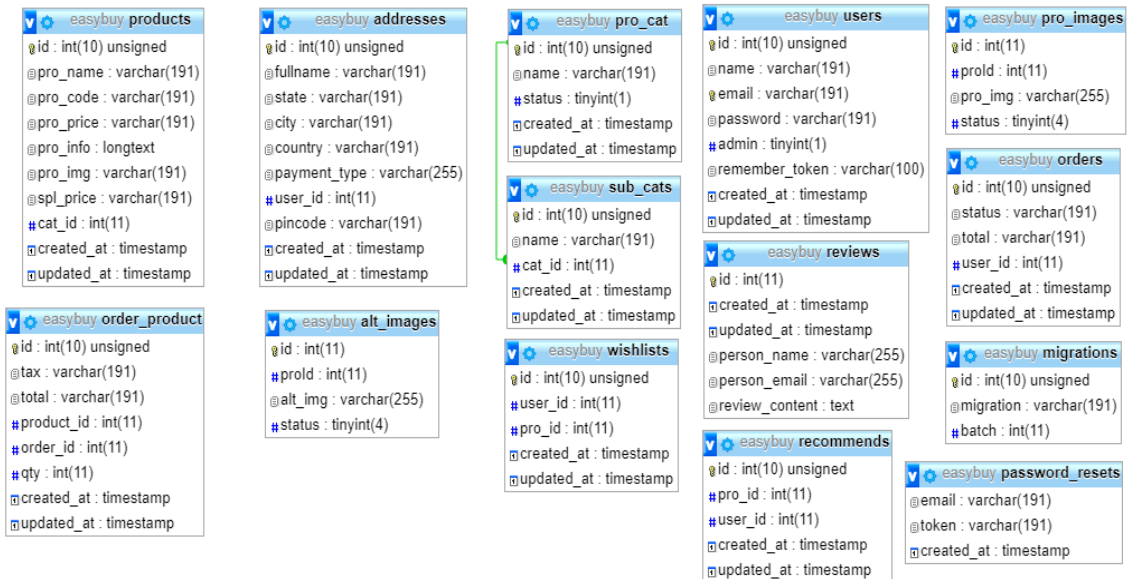
1. addresses(id , fullname , state , city , country , payment\_type , user\_id , pincode, created\_at, updated\_at)
2. alt\_images(id, proId, alt\_img, status)
3. orders(id, status, total, user\_id, created\_at, updated\_at)
4. order\_product(id, tax, total, product\_id, order\_id, qty, created\_at, updated\_at)
5. products(id, pro\_name, pro\_code, pro\_price, pro\_info, pro\_img, spl\_price, cat\_id, created\_at, updated\_at)
6. pro\_cat(id, name, status, created\_at, updated\_at)
7. pro\_images(id, proId, pro\_img, status)
8. recommends(id, pro\_id, user\_id, created\_at, updated\_at)
9. reviews(id, created\_at, updated\_at, person\_name, person\_email, review\_content)
10. sub\_cats(id, name, cat\_id, created\_at, updated\_at)

11. users(id, name, email, password, admin, remember\_token, created\_at, updated\_at)

12. wishlists(id, pro\_id, created\_at, updated\_at)

### 4.3 ER Diagram

An entity relationship diagram (ERD) shows the relationships of entity sets stored in a database. An entity in this context is a component of data. In other words, ER diagrams illustrate the logical structure of databases.



## **4.4 Project Modules**

A module description provides detailed information about its supported components and the module, which is accessible in different manners. The included description is available by reading directly, by generating a short html-description, or by making an environment check for supported components to check if all needed types and services are available in the environment where they will be used.

**Modules:** This project contains 2 modules, those are

- **Admin**
- **User**

### **Modules Description:**

#### **Admin:**

Admin can login to our system, can add products, can view the products, can add category and also can view the categories.

#### **User:**

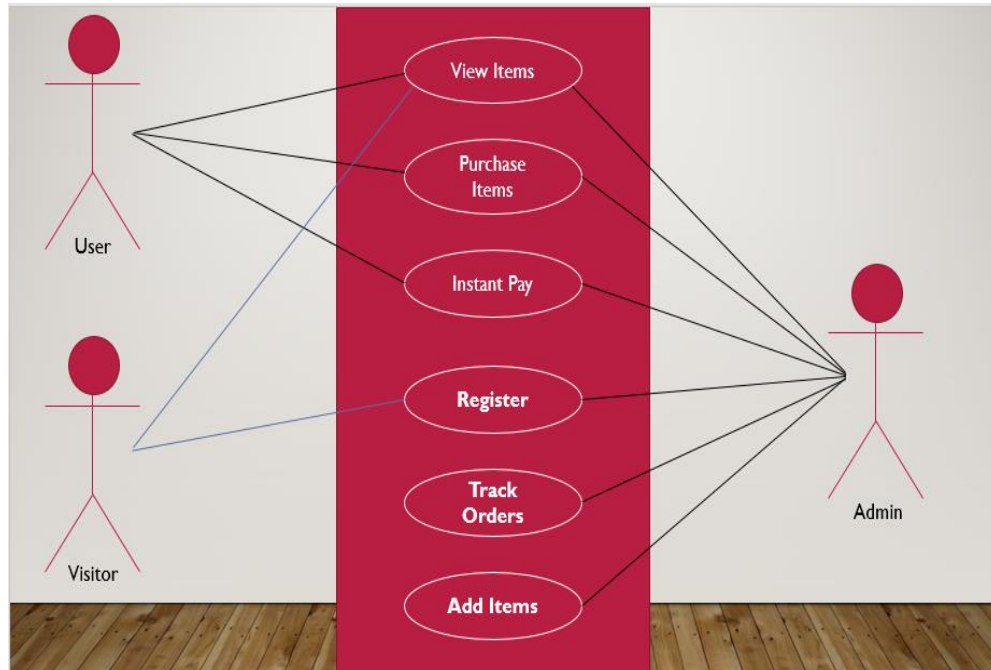
User can register and then log into our system. User can see and buy products online.

## 4.5 Diagrams

A diagram is a symbolic representation of information according to some visualization technique. There are various kinds of diagrams for project. In our project we used activity diagram and use case scenario to show the process and role of user and admin.

### 4.5.1 Use Case Diagram

This is descriptive Use Case Diagram for Visitor, User and Admin.



<b>Use Case Number</b>	01
<b>Title</b>	View Items
<b>Actor</b>	User, Visitor, Admin
<b>Scenarios</b>	Can choose product and order
<b>Extensions</b>	Can add to Wishlist
<b>Pre-Condition</b>	None
<b>Post-Condition</b>	None
<b>Successful Scenario</b>	Orders have been submitted successfully
<b>Alternative Scenario</b>	None

<b>Use Case Number</b>	02
Title	Purchase Items
Actor	User, Admin
Scenarios	None
Extensions	None
Pre-Condition	Have to register and log in first
Post-Condition	None
Successful Scenario	Items delivered successfully
Alternative Scenario	None

<b>Use Case Number</b>	03
Title	Instant Pay
Actor	User, Admin
Scenarios	Can choose payment method
Extensions	None
Pre-Condition	Have to register and log in first
Post-Condition	None
Successful Scenario	Payment Successful
Alternative Scenario	Payment Failed

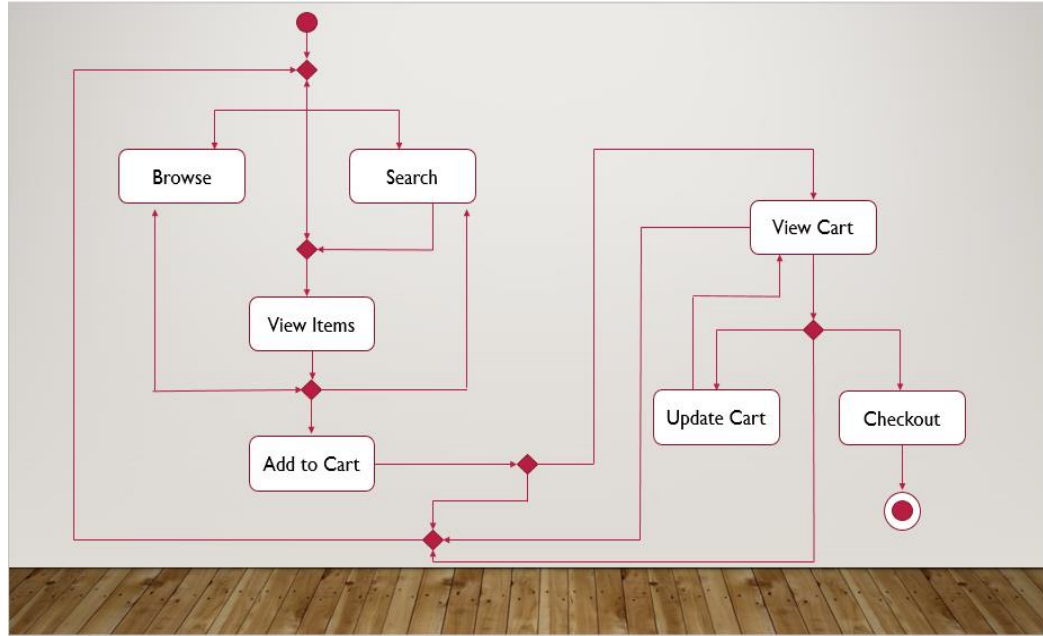
<b>Use Case Number</b>	04
Title	Register
Actor	Visitor, Admin
Scenarios	Email Address and Password submission
Extensions	Retype Password
Pre-Condition	Fill all the necessary criteria
Post-Condition	None
Successful Scenario	Registered Successfully
Alternative Scenario	Registration Failed

<b>Use Case Number</b>	05
Title	Track Orders
Actor	Admin
Scenarios	Deliver pending orders
Extensions	None
Pre-Condition	None
Post-Condition	None
Successful Scenario	Record Updated
Alternative Scenario	None

<b>Use Case Number</b>	06
Title	Add Items
Actor	Admin
Scenarios	Add product details & specify requirements
Extensions	None
Pre-Condition	Fill necessary criteria
Post-Condition	None
Successful Scenario	Product added successfully
Alternative Scenario	None

## 4.5.2 Activity Diagram

Activity diagrams are graphical representations of workflows of stepwise activities and actions with support for choice, iteration and concurrency.



# Chapter – 5

## 5. Technology & Screen Shots

### **5.1 Technology**

Now we live in time of technology. At present without technology we cannot think of our day to day life. A proper ecommerce site needs to develop with high technology to run smoothly and give proper result. In this section we will discuss the various tools of technologies we used.

#### **Framework**

- Laravel 5.4

#### **Language**

- PHP (Back-End)
- HTML, CSS, Bootstrap (Front-End)
- JQuery, AJAX

#### **Database**

- MySQL

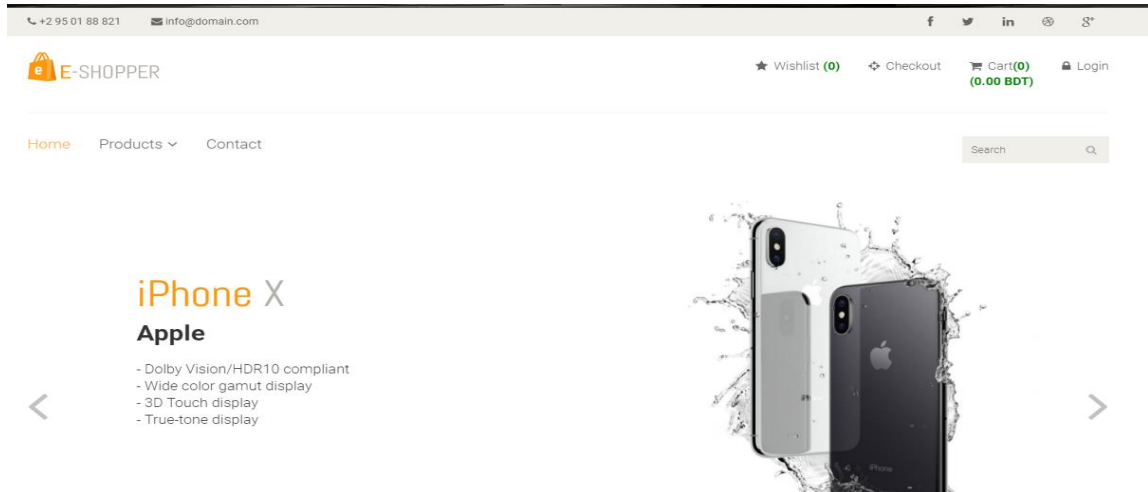
#### **Tools**

- Sublime Text 3
- Xampp

## 5.2 Screen Shots

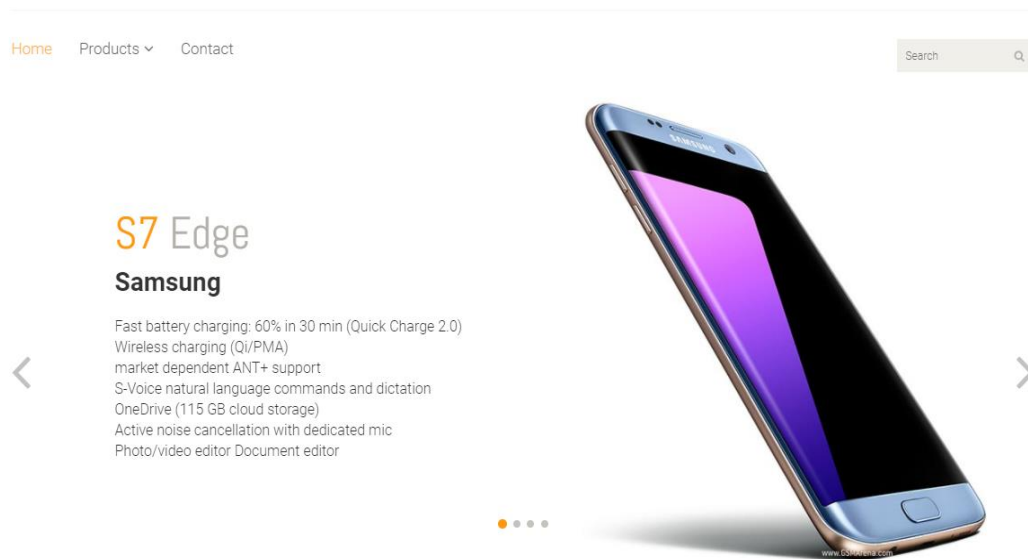
Here are few screen shots of user panel and admin panel.

### Home Page



This is the page user will first see when visit our site.

### Home Page (1)



This is another image of the slider.

### Home Page (2)

Total Products: 16


**FEATURE ITEMS**

**PRICE RANGE**


\$ 15000 — \$ 50000

**BRANDS**


- Apple (5)
- Huawei (3)
- Samsung (4)
- Xiaomi (4)



**BDT 98790**  
iPhone X



**BDT 14200**  
iPhone 4



**BDT 23000**  
iPhone 5


These are the products of home page. User can use price range and check box to select specific products with specific price.

### Home Page (3)


**BDT 98790**  
iPhone X

**BDT 14200**  
iPhone 4


**BDT 23000**  
iPhone 5



**BDT 58290**  
Samsung S8 plus



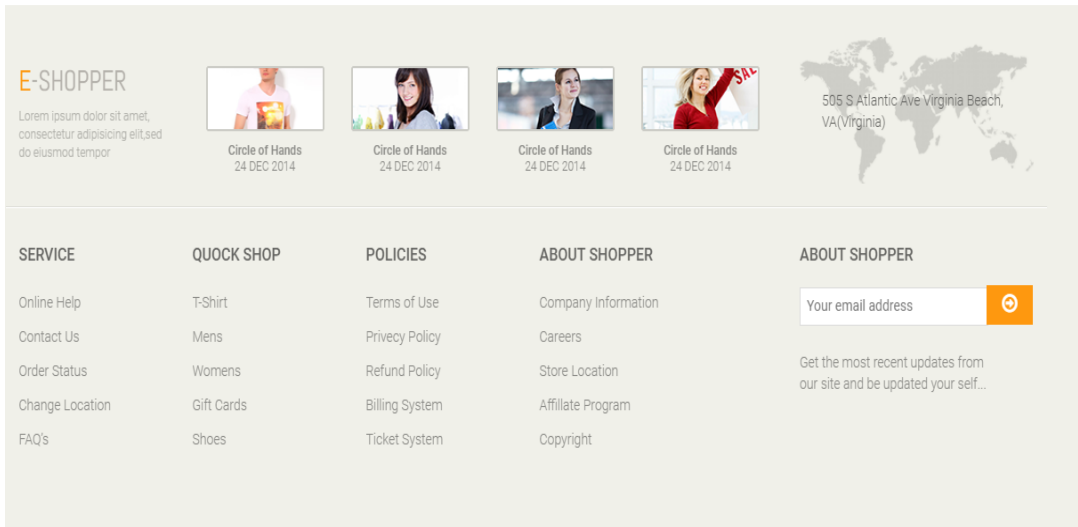
**BDT 40390**  
Samsung S7 edge



**BDT 35000**  
Samsung S6 edge

These are more products of home page.

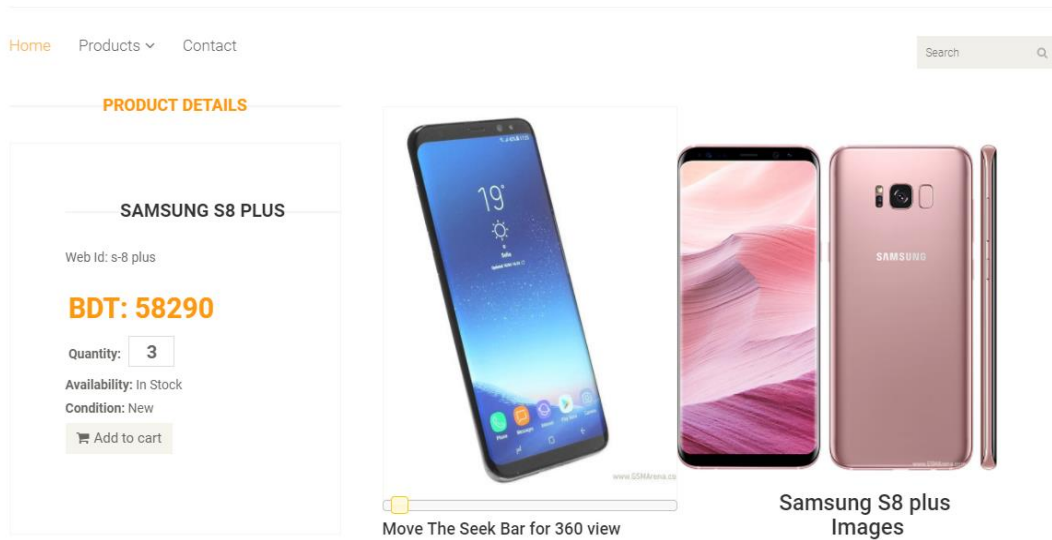
### Home Page (4)



This is the footer of the user panel

## Footer

## Products Details Page



This is the page when user click on a product. User can see 360 view by moving the seek bar. Alternate images will be auto rotate. These two are exceptional feature of our project.

## Product Details - 1

**DETAILS** TAG REVIEWS (6)

- Model : G950FD - Dual SIM (Nano-SIM, dual stand-by) - Samsung Pay (Visa, MasterCard certified) - IP68 certified - dust/water proof over 1.5 meter and 30 minutes - GPS with A-GPS, GLONASS, BDS, GALILEO - NFC - USB : 3.1, Type-C 1.0 reversible connector - Sensors : Iris scanner, fingerprint (rear-mounted), Accelerometer, Gyro, Proximity, Compass, Barometer, Heart rate, SpO2 - Samsung DeX (desktop experience support) - ANT+ support - S-Voice natural language commands and dictation

**RECOMMENDED ITEMS**



Most popular products will be recommended to the user.

Product Details - 2

Contact Us Page

**GET IN TOUCH**

Name  Email

Subject

Your Message Here

**CONTACT INFO**

E-Shopper Inc.  
 Dhanmondi 15,Dhaka  
 Dhaka, Bangladesh  
 Mobile: +2346 17 38 93  
 Fax: 1-714-252-0026  
 Email: info@e-shopper.com

**SOCIAL NETWORKING**

[f](#) [t](#) [g+](#) [You Tube](#)

**Submit**

User can send any message to us.

## Login/Register Page

The screenshot shows the top navigation bar of the E-Shopper website. It includes contact information (+2 95 01 88 821, info@domain.com), social media icons (Facebook, Twitter, LinkedIn, YouTube, Instagram), and utility links (Wishlist: 0, Checkout, Cart: 0 (0.00 BDT), Login). The main navigation menu contains Home, Products, and Contact, along with a search bar. The central content area features two forms: a Login form with fields for E-Mail Address, Password, and a Remember Me checkbox, and a Register form with fields for Name, E-Mail Address, Password, and Confirm Password. An orange circle with 'OR' is positioned between the two forms. The Login form has a Login button and a link for 'Forgot Your Password?'. The Register form has a Register button.

Here visitor can register and user can login to buy products.

## User Profile

The screenshot shows the User Profile page. The navigation bar includes Home, Products, and Contact, with a search bar. The main navigation menu shows Home and My Profile. The profile section displays the user's name 'Hi, Shah Newaj' and a welcome message 'Welcome to your profile'. A sidebar on the left contains a 'Quick Links' section with links to My Profile, My Orders, My Address, and Change Password.

This is user profile page

## User Profile - 1

Home Products Contact Search

Profile My Orders

### Quick Links

- [My Profile](#)
- [My Orders](#)
- [My Address](#)
- [Change Password](#)

### Shah Newaj, Your Orders

Date	Product Name	Product Code	Order Total	Order Status	Details
2017-10-26 04:11:02	iPhone 4	i-4	33,880.00	pending	<a href="#">View</a>
2017-11-15 05:57:19	iPhone X	i-x	78,734.70	pending	<a href="#">View</a>

Here user can see the pending/delivered orders.

## User Profile - 2

### Quick Links

- [My Profile](#)
- [My Orders](#)
- [My Address](#)
- [Change Password](#)

### Shah Newaj, Your Address

Full Name

City

State

Pin Code

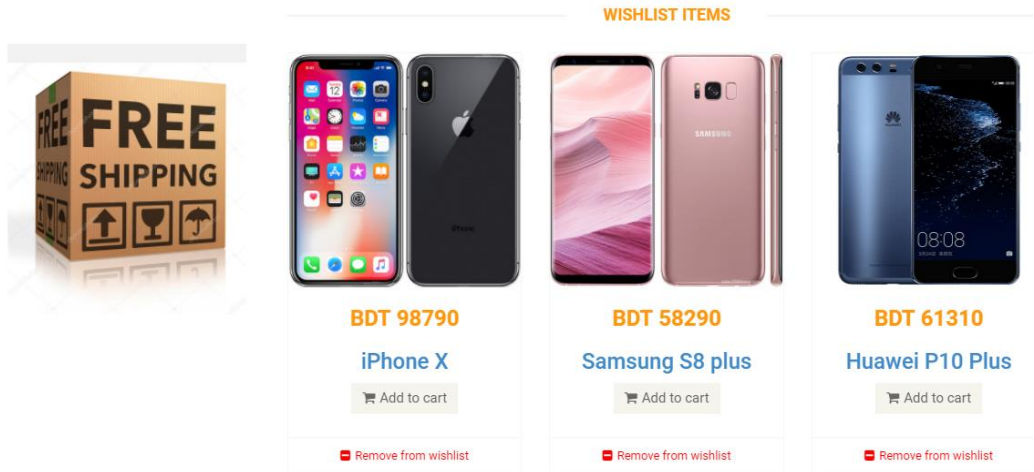
Country

[Update Address](#)

User can see and update shipping address.

## User Profile - 3

## Wishlist Page



User can select products to keep in wishlist page for later.

## Checkout Page

Shopper Information

Full Name

State Name

Pincode

City Name

Select country

Shipping Order

Notes about your order, Special Notes for Delivery

Shipping to bill address

Here user will give shipping address.

## Checkout Page -1

Review & Payment

Item	Price	Quantity	Total
Samsung S8 plus Web ID: 4	\$58290	+ <input type="text" value="1"/> -	\$58,290.00
			Cart Sub Total \$58,290.00
			Tax \$12,240.90
			Shipping Cost Free
			Grand Total <b>\$70,530.90</b>



COD  Paypal

Continue

## Checkout Page -2

## Cart Page

[Home](#) > Shopping Cart

Item	Price	Quantity	Total
 Samsung S8 plus Product ID: 4	\$58290	<input type="text" value="1"/>	\$58290
 iPhone X Product ID: 1	\$98790	<input type="text" value="1"/>	\$98790

Here user can increase/decrease products before continue

## Cart - 1

### What would you like to do next?

Choose if you have a discount code or reward points you want to use or would like to estimate your delivery cost.

Country: United States	Region / State: Select	Zip Code: <input type="text"/>
<input type="button" value="Get Quotes"/>	<input type="button" value="Continue"/>	

Cart Sub Total	\$157,080.00
Eco Tax	\$32,986.80
Shipping Cost	Free
Total	\$190,066.80
<input type="button" value="Update"/>	<input type="button" value="Check Out"/>

Here user will see total cost of selected products with tax and shipping cost.

## Cart - 2

## Admin Page

The screenshot shows the NICE ADMIN dashboard. The top navigation bar includes the text 'NICE ADMIN', a hamburger menu icon, and a user profile for 'Shah Newaj' with notification icons for 6 messages and 7 alerts. The left sidebar contains navigation links for 'Dashboard', 'Products', and 'Categories'. The main content area displays the 'DASHBOARD' title and a breadcrumb trail 'Home / Dashboard'. A modal window titled 'Add Product' is open, featuring a 'Category' dropdown menu with 'Apple' selected, and two empty text input fields for 'Product Name' and 'Product Code'.

Here Admin can add product in the database and the product will be shown in the home page.

## Add Product – 1

Product Code:

Product Price:

Product Info:

Product Image:  No file chosen

SPL Price:

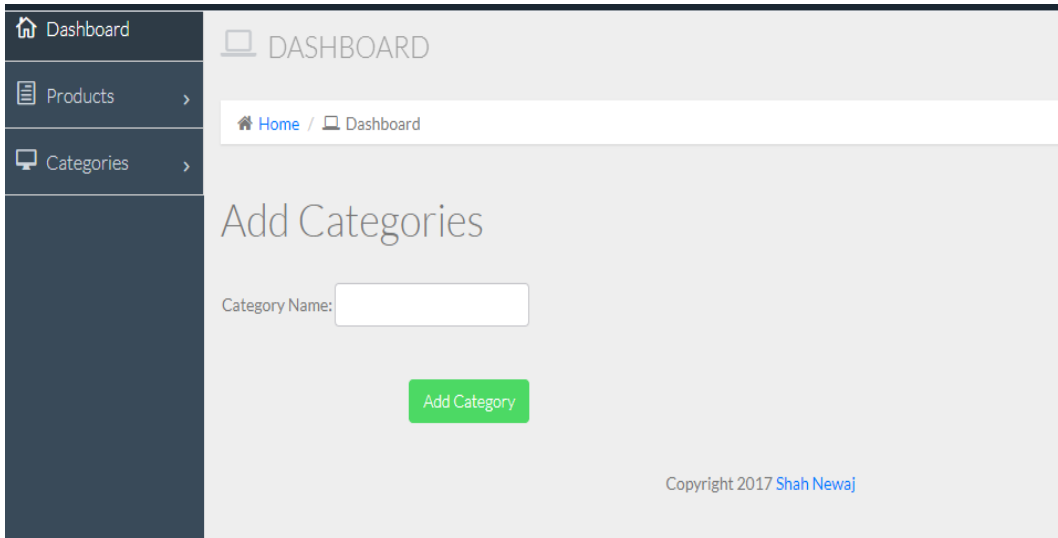
Copyright 2017 Shah Newaj

## Add Product – 2

Image	Category	Product Id	Product Name	Product Code	Product Price	SPL Price	360 Images	Alt Image	Update/Delete
	Apple	1	iPhone X	i-x	98790	98000	35 Images found <input type="button" value="+ Add"/>	5 Images found <input type="button" value="+ Add"/>	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
	Apple	2	iPhone 4	i-4	14200	14000	0 Images found <input type="button" value="+ Add"/>	5 Images found <input type="button" value="+ Add"/>	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
	Apple	3	iPhone 5	i-5	23000	22500	0 Images found <input type="button" value="+ Add"/>	5 Images found <input type="button" value="+ Add"/>	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
	Samsung	4	Samsung S8 plus	s-8 plus	58290	57500	36 Images found <input type="button" value="+ Add"/>	6 Images found <input type="button" value="+ Add"/>	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

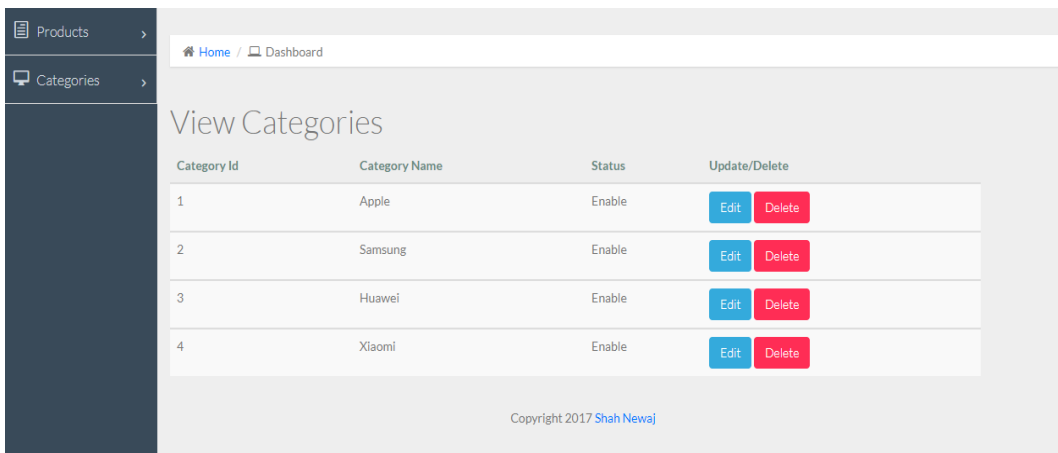
Admin can see all the products here and also can edit or delete any product from here.

## View Product



Admin can add new categories here.

### Add Category



In this page admin see and edit or delete any category.

### View Category

# Chapter – 6

## 6.1 Conclusion

Now internet is a major resource in modern business and electronic shopping has gained significance from both the entrepreneur's and the customer's point of view. For the entrepreneur, electronic shopping generates new business opportunities and for the customer, it makes easiest shopping possible.

Most customers of online stores usually make a decision to stay on a site for the first few seconds. "Website design is like a shop interior. If the shop looks poor or like hundreds of other shops the customer is most likely to skip to the other site. So we have designed the project to provide the user with easy and user friendly user interface as much as possible. In this project, the user is provided with a website that can be used to buy Smart Phones online. To implement this project we used Laravel, Ajax and jQuery as the Technology. Laravel has lots of advantages such as built-in security, simplicity, scalability, and enhanced performance.

A good website design must be accompanied with user-friendly application logic. It should be convenient for the customer to view the items and to be able to remove or add items to their cart. The web application described in this project provides a few exceptional features that are designed to make the customer more enjoyable and comfortable.

## 6.2 References

1. <https://laravel.com/docs/5.4/>
2. <https://jqueryui.com/>
3. [https://www.w3schools.com/xml/ajax\\_intro.asp](https://www.w3schools.com/xml/ajax_intro.asp)
4. <https://www.youtube.com/>
5. <https://www.google.com/>