

AN ONLINE E-COMMERCE BUSINESS PLATFORM

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This Report Presented in Partial Fulfillment of the Requirements for the
Degree of Bachelor of Science in Computer Science and Engineering

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APPROVAL

This Project titled **An Online E-commerce Business Platform**, submitted by Oliur Rahman and Md. Abdur Rahman, ID No: 181-15-10492 and 182-15-11668 to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 13/09/2022.

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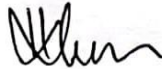
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DECLARATION

We hereby declare that, this project has been done by us under the supervision of **Mr. Md. Aynul Hasan Nahid**, Lecturer, 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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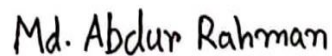


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ABSTRACT

As the day goes on, everything is currently becoming progressively simpler for us. Examples come in a variety of forms. But if daily life's activities are a meaningful illustration. No longer markets or shopping malls needed to be visited to make purchases. Capability of instantly order it by sitting at home and clicking 2/1;no need to travel far to China or America to buy. Receiving it while at home. It is known as e-commerce. Additionally, the project uses this cutting-edge e-commerce. With this initiative, sought to demonstrate how much more can be made accessible to people and made easy. A very attractive user interface, detailed product presentations, a shopping cart system, a payment system, etc. are what we mean by advanced e-commerce. Every effort to ensure that a typical buyer could navigate the website, comprehend everything, and quickly buy a product. Simplify complex systems for easy comprehension work is being done. Solving a great deal of problems. Overcome any challenges that do arise in the future.

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CHAPTER 1

Introduction

1.1 Introduction

Advanced e-commerce is designed to make shopping easier and more efficient. After doing a lot of market research, we have not taken this step. Let's start this project with some things in mind. First, who are our target customers? Then what could be the product we sold, that is, we will work with the market of any product. This is where we start our work with the decision. Then we step into the technical step. At the present time Laravel Framework is in good demand and comparatively easy to work with but at first, we had to think a lot about the framework and also wear a lot of problems which we can easily solve. Now we can solve any problem and create any project with Laravel Framework. Then we have no idea about the database, understand the database structure, how to become a database of an advanced e-commerce web application site. We start our work with almost all the ideas in hand. In the beginning I got into trouble out of thought. I have solved it gradually. And this is our website for today. At present our country has a lot of e-commerce. And we also thought about how to make it more advanced. That is why we started our work. So far, we have done a lot of advance work. We have tried to make the whole website dynamic, and in such a way that the average visitor will be overwhelmed and can shop at ease. And we've noticed this on a number of e-commerce websites. However, this is how our plan of our e-commerce started.

1.2 Motivation

As we were saying in the introduction, there are several things to keep in mind when we start working on this advanced e-commerce. One of the key issues is how easy it is for a customer to shop. Then there are product details, security, and more. Even the above problems we see in many e-commerce websites, where we could not satisfy ourselves. So, our motivation was to work with a modern advanced e-commerce website. We also include in our motivation everything from choosing a product to easily completing the order in just

a few steps and seeing all the steps before the product is delivered. Then if we look at the technical issues, we can see that there are many such platforms where it is very easy to build a website in a very short time. But there is no security. Information, money transactions, everything is insecure. That's why we work with the very popular web framework of today so that everything is under our control and security. However, this is how we find the motivation for our work and move towards the goal. Since we have a goal to launch this website in the future we will also work as an entrepreneur, so we wanted to work that way. Our plan, motivation was not limited to this test, we thought about the future with it. And that was one of our motivations.

1.3 Objective

Advanced e-commerce has many facets. There are many types. For example, someone will only show his product, someone will work with his product portfolio, and someone will work for the customer's order, that is, for the purpose of sale, etc. Our purpose is to sell the product. But other issues will also prevail. This will be like our company portfolio page; each product is presented with accurate information and each product is reviewed. With this in mind, our advanced e-commerce tea has been developed in a multifaceted way. Moreover, another name of our website can be called single vendor e-commerce website. In other words, the website is owned by a company. There are many single vendor e-commerce websites in our country. But another type such as multi-vendor e-commerce. There are multiple sellers who sell their products using this platform. If we look at the international market, then Amazon, Alibaba are multi-bonder e-commerce. And in our country, there are Daraz, Ajkerdeal, etc. Those are now at the highest level in our country. But we are working on a single vendor e-commerce website. This is basically for independent entrepreneurs. Whose own website, in their own name. Which I mentioned above is sole proprietorship. There are many benefits to this, so many entrepreneurs create websites for themselves under their own names. And those who have problems with management are contracted with the multi-vender website. All systems will supply only products to their sellers. Now whatever is used, the purpose is to sell the product to the customer/consumer.

1.4 Expected Outcome

At present, we do not do anything because there is a purpose behind it. The advanced e-commerce website we are building will serve as our future revenue stream. This is how we will publish this website online. And we will upload our products for sale. Now if the customer buys the product from us then our future plan has achieved its purpose. That means we have some far-reaching plans. And its future outcome is that we want to establish ourselves as an entrepreneur. And want to build a company. So that the road to our income is paved, so that we can be self-sufficient. When the website created at our varsity launches as a company in the future, it will be a good thing for our varsity as well. A good alumnus of our varsity was made. And if we can build successful companies, we can create jobs in the future. Our varsity students will be able to do develop their skills by working here and also learn some jobs. There is a beautiful future beyond our imagination. We want to work on our future plans and the benefits we get from it. I would like to color our plan in the light of far-reaching thinking and I hope that everyone will benefit from it.

1.5 Report Layout

The Report layout describes a summary of the entire chapters. Here is a summary of all the chapters:

Chapter 1: In this chapter we describe introduction, future outcome, motivation and others.

Chapter 2: In this Chapter we describe, our related works, our research studies also problem and challenges.

Chapter 3: In this chapter we describe, our full web sites model diagram, recruitments & their requirements

Chapter 4: In this chapter we describe total design description like UX, backend design, frontend design etc.

Chapter 5: In this chapter we describe, the main fact of web site implementations and testing purpose works.

Chapter 6: In this chapter we describe, the impact of our project on environment, society and sustainability

Chapter 7: In this chapter we describe, final terms of our website mean our conclusion, limitations and future scope.

CHAPTER 2

Background

2.1 Introduction

At this stage we'll discuss the background of our website. In the beginning we said that we start our work of advanced e-commerce after thinking a lot. There were many easy ways. But instead of doing that, I went for the best from all sides. At present there are many competitions in this line where everyone can solve some problems and come up with something good. So, it is wrong to think that we are alone. Many have many, many good solutions. Just like us. So, we had to do a lot of research. The market has understood. I have examined everything from the production of products in the market to what prices are coming to the market and what prices are being released in e-commerce. We have also worked keeping in mind that our target customer will be. The same goes for technical issues. It has been thought that working in any language now would be useful for both our present and future. We also use modern themes to match the existing themes when choosing themes for the website. We have made the work more convenient keeping in mind the convenience of the customer which was very effective in our background research. However, we will know more details about this.

2.2 Related Works

We had to do a lot of research just before we started. We currently monitor those who are involved in e-commerce work and their websites and build the foundation of the work. These are some of the goal setting sharewares that can be use. What kind of products do they sell? What is their actual review through social? We have no idea how long it takes to deliver the product. We take note of everything and process our actions accordingly. As such first we find the template. The template is similar to other e-commerce websites. Some people create new templates according to their own design. We set up a web framework to do our backend work. Many e-commerce websites now use this framework. Because this framework is easy to operate with good security system. In today's web world any source

related to website is available. Similarly, this framework also has a lot of open sources. Which we can easily use in any of our problems. We have had to deal with a lot of problems when it comes to programming solutions that we solve with the help of those sources and close brothers. Now there are many benefits to working with this web framework. There are different communities of e-commerce through social media from where we get more different types of information. We don't even know about any ongoing information about e-commerce. We took help from [12] Ref Dr. Shahid Amen, Prof. Keshav Kensana, Jenifar Majid, "A Review Paper on E-Commerce," Conference, 1, pp. 2-13, February 2016.

2.3 Comparative Studies

It is necessary to study before doing any work. It also requires a lot of research. Only then will we have the theoretical knowledge when we go to the field to work on any subject. And the rest is up to our hard work and present intellect. One thing we knew before we started working on advanced e-commerce was that there are a lot of people working on e-commerce right now. We are also planning, which means we are not the opposite. We will work in the same way. So, when we work in the same way, we have to think more creatively. We have to think which way we can be successful. The path is not easy, but not too difficult. So, we read again about the digital market. Thinking about how we can move forward and work towards our goals. Whether it's creating our project or planning for the future. When we started this project, we had to learn about HTML, CSS, JavaScript. Otherwise, we would not be able to modify the template we are working on. Then we had to learn PHP. Then we learn OOP programming, then we learn our web framework Laravel. In other words, before starting our project, we had to learn many steps and then go on the field. We also had to know about the database before the project. So, we have to study before we start anything. Which will assist us in our next activities.

2.4 Scope of the Problem

There will be no problem when the work will start in the world or maybe! If there is a problem, we have to overcome it. However here we will talk about the various problems faced in our work. The first problem we encountered is that many people are now working on e-commerce. Now if we also work with e-commerce then we are all the same. Then we start looking for exceptions, plan something and try to solve it. We've started working to make the online shopping environment easier for customers. That is, we try to simplify the user interface. Then think about how to secure website information and other information. We plan to ensure the trust of the customer by providing the current status of the product to the customer from the time of our product order to the time of delivery. In other words, the simpler we plan, the easier it is to solve many problems. So, we start working step by step and solve the problem one by one. The first problem we face is the environment setup of the project i.e., the compiler setup where we will do the project. After catching a lot of bugs in the beginning, a lot of errors that make us think a lot. And that's how our problem begins. And this is how we solve the problem and go to the next step. The next problem we can face is database design. Before creating a complete website structure, we have to think about its database. Again, the connection has to be made by querying the relational database within the database. We also need to keep in mind whether the information is being stored properly in the database. Again, you have to check whether the edit or delete option is working properly. This means that we can get into trouble with every step of advanced e-commerce. However, it is possible to solve it carefully.

2.5 Challenges

There will be challenges in any endeavor, it is not unusual. Our time also has many challenges. There is a lot of e-commerce these days. Many kinds of products are sold there. So, after a lot of pressure on our thinking about what is now available. We have to examine every issue very seriously from the beginning. As time goes by, technology will change step by step. When it comes to technology, the programming language is constantly being

upgraded. So, we have to work on the latest version. We usually see a lot of new versions are updated, it is difficult to understand, if there is a problem then it becomes difficult to solve. We will face this challenge. We also need to check if our project is going with the current e-commerce. If not, then we have to face this challenge. We need to keep in mind that when a customer visits a website, it seems normal and easy. So, we have to keep this challenge in mind. We think creating an e-commerce is not as easy as it sounds. We have to face many challenges. That is why we need to take note of all the challenges in advance or keep in mind the upcoming challenges so that we can solve any problem that comes suddenly very successfully. And the most important thing is that in order to face these challenges, we also have to face the challenges of our own minds. Then I will be able to face any upcoming challenge.

CHAPTER 3

Requirement Specification

3.1 Business Process Modeling

We have developed business processing model for this advanced e-commerce website. And our whole project is based on this model. And that's what our advanced e-commerce website is all about. The things we value most are the simplification of the website's user interface, the security of the information, and the dynamics of everything. Moreover, we are giving importance to the payment method. Because the payment method of contemporary e-commerce website is not very convenient. Which we have faced ourselves. So, if we have to keep our advanced e-commerce ahead of others, then we will also work hard on the payment process, we will try to keep the whole system transparent. Now we will move forward by step by step.

3.2 Requirement Collection and Analysis

Here we can see the process from Admin Panel:

- Admin Panel- Admin can go through all parts.
- Admin Login- Admin can login to its own section.
- Category/Sub-Category- Every product differs from male to female.
- Product ADD-EDIT-DELETE- Admin can control the product section.
- Order Table- The new orders show separately on a section.
- Order Product Details- Every product has its official details.
- Update Order Status- Both admin and user can see through the order status.
- Order Invoice- For security for both side.

Here we can see the process for User:

- User Login/Register- User have to register legally
- Product Show- The products are visible to the users.
- Product Details- Users can also see the official product details.
- Cart System- User will get a overview of the total order.
- Checkout- After confirming user can check out.
- Delivery Address- User have to provide valid address.
- Payment Gateway- User can access to the payment.
- Order Place- After payment order will be proceeded for next step.

And this all requirements are following in our advance E-Commerce Project.

3.3 Use Case Modeling & Description

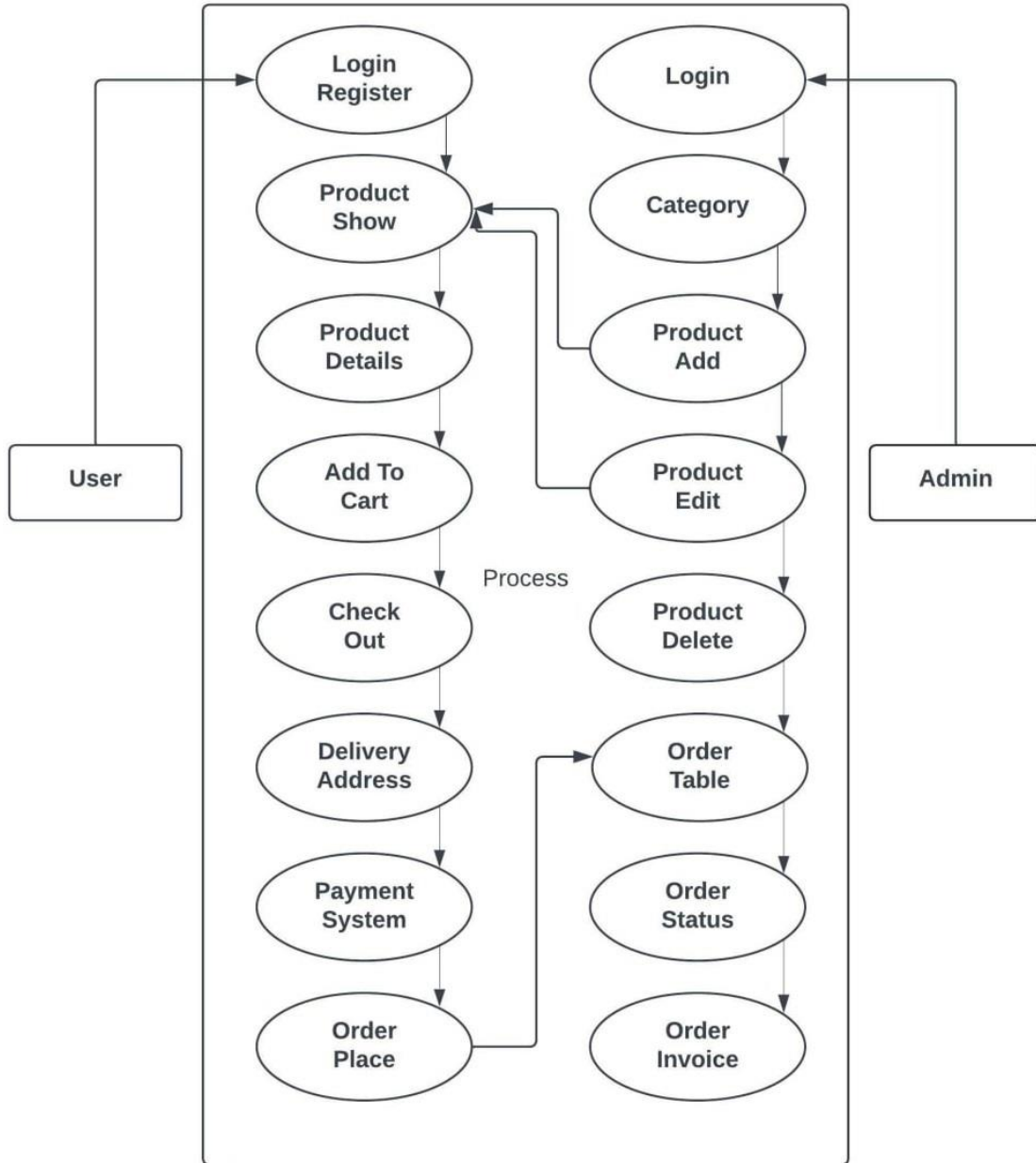


Figure 3.3: Use Case Model

3.4 Logical Data Model

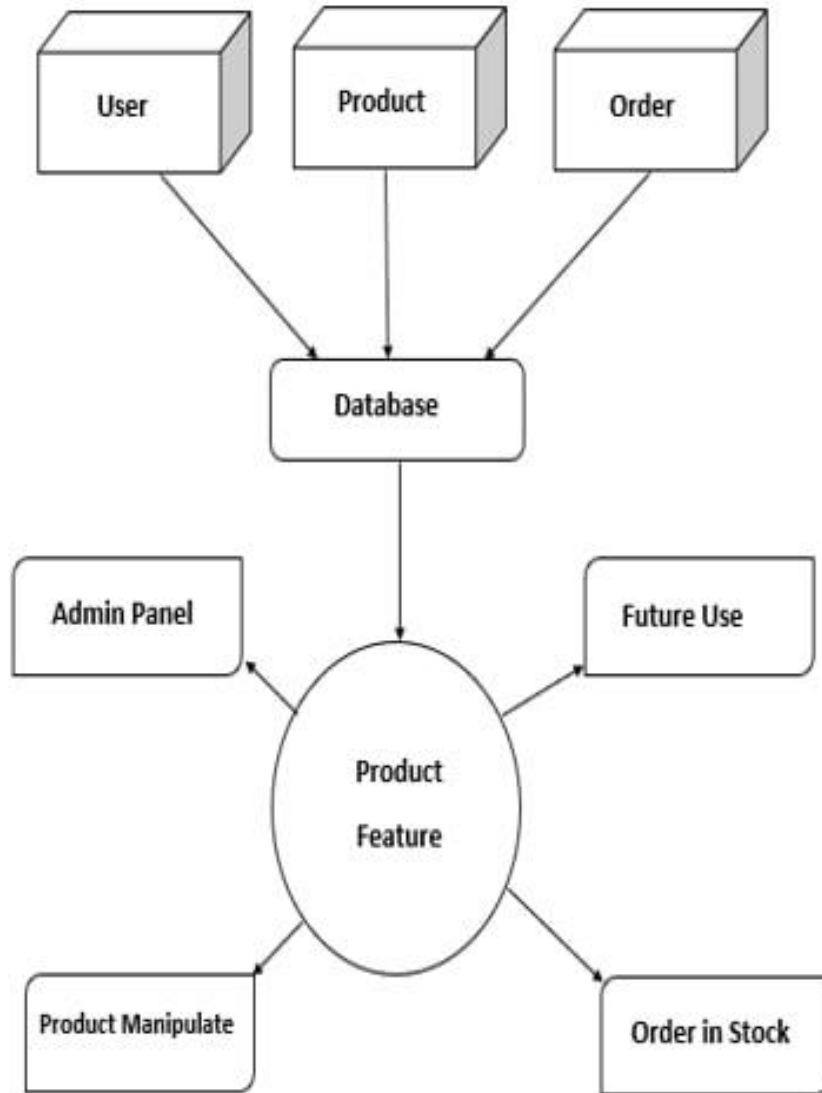


Figure 3.4: Logical Data Model

3.5 Design Requirements

There's have some requirements on our design structure. User side & admin panel both side we have a planning for execution. Now we show some facts,

User:

Login Requirements:

- Need Email & Password for Login- For ensuring security, verification is needed.
- Before you login must be sure your email is verified. Until you can't login.

Registration Requirements:

- Need Name, Mobile No, Email, Password.
- After Successfully Submit the value get an Email Verification link through submitted email id. And customer should click on this link for email verification for user verified.
- After verified customer email verification, now customer can be ordering any product.

That both Login & Registration we will be used in Laravel Framework & operational system will be customized, because security system needs updated and secured.

CHAPTER 4

Design Specification

4.1 Front-end Design

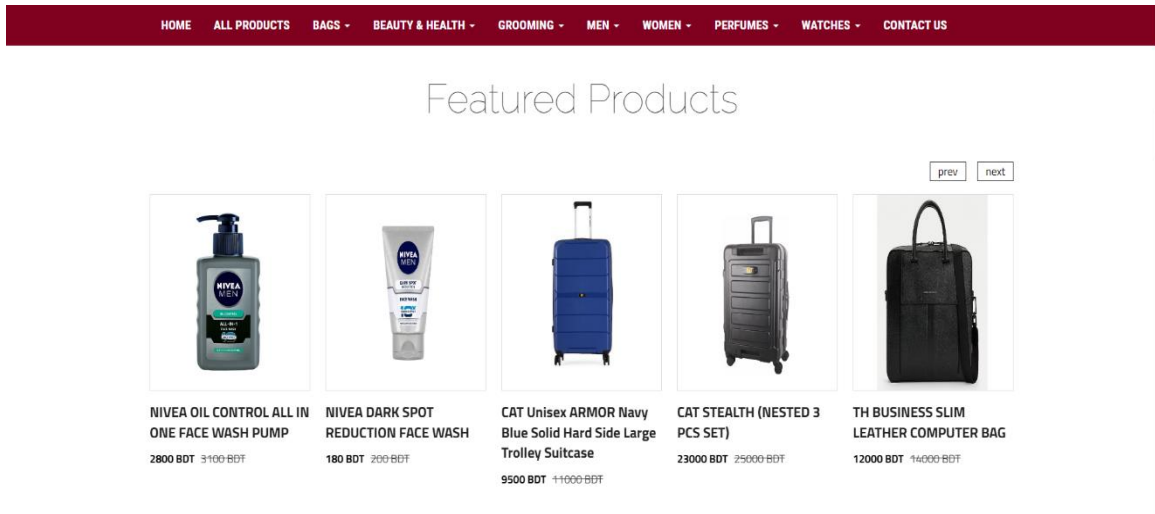


Figure 4.1.1: Featured Products

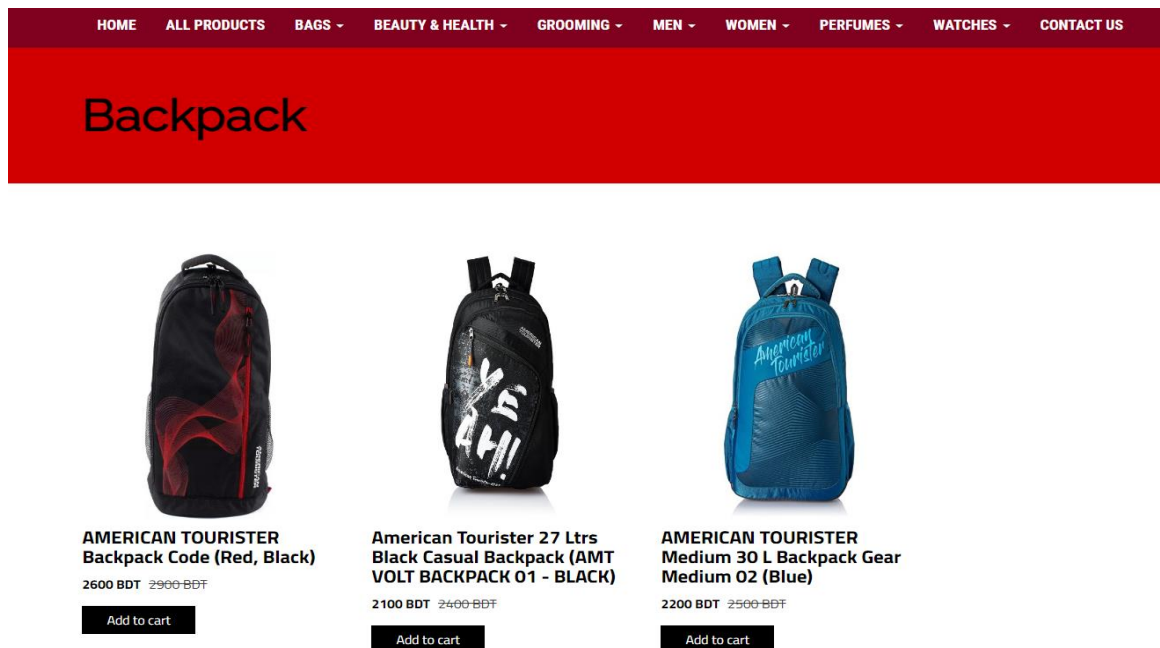


Figure 4.1.2: Backpack

Home / Men Perfumes / CHANEL N°5 Perfume



CHANEL N° 5 Perfume

Brand: Chanel
 Product Available For: **Online Payment Only**
(20 Items In Stock)
BDT.13500 ~~BDT.15000~~
 Choose Color*

ADD TO CART

Category: Men Perfumes
 Tags: Chanel CHANEL N°5 Perfume

Description **Details** Submit Review

Product Details

- Brand: Chanel
- Region: Paris
- Size: 20
- Weight: 100ml

Figure 4.1.3: Product Details

HOME ALL PRODUCTS BAGS - BEAUTY & HEALTH - GROOMING - MEN - WOMEN - PERFUMES - WATCHES - CONTACT US

Product Has Been Added in Your Cart!


IMAGE	PRODUCT	UNIT PRICE	QUANTITY	SUBTOTAL
	CHANEL N°5 Perfume Code: p01 Color: Yellow	BDT. 15000	+ <input type="text" value="1"/> - <input type="button" value="Delete"/>	BDT. 15000
Cart Totals		CART TOTAL		BDT. 15000
		CUPON DISCOUNT		BDT. 0.00
		TOTAL AMOUNT		BDT. 15000
<input type="button" value="Continue Shopping"/>		<input type="button" value="Proceed To Checkout"/>		

Figure 4.1.4: Product on Cart

New Register :

Name

Email

Mobile

Password

REGISTER

If You Are Already Registered!

Login :

Email

Password

LOG IN [Forgot Password](#)

Figure 4.1.5: Login or Register

Address

- Dhaka, Bangladesh, South Asia, Asia, World, Milkyway Galaxy

Available Here

- Mobile : 01234567891
- Hot Line : 01234567891
- WhatsApp : 01234567891

Electronic support

- Please feel free to write an email to us or to use our electronic ticketing system.
- mail@e-com.com



Figure 4.1.6: Contact

HOME ALL PRODUCTS BAGS ▾ BEAUTY & HEALTH ▾ GROOMING ▾ MEN ▾ WOMEN ▾ PERFUMES ▾ WATCHES ▾ CONTACT US

Delivery Address

Add New Delivery Address

Name

Email

Mobile

Location Status

District

Post Code

Full Address

SUBMIT

Figure 4.1.7: Delivery Address

HOME ALL PRODUCTS BAGS ▾ BEAUTY & HEALTH ▾ GROOMING ▾ MEN ▾ WOMEN ▾ PERFUMES ▾ WATCHES ▾ CONTACT US

Order Placed

Congratulations

Your Order Has Been Placed Successfully!

Your Billing ID is ECOM2206038 and Total Amount is BDT. 12000

Figure 4.1.8: Order Placed

4.2 Back-end Design

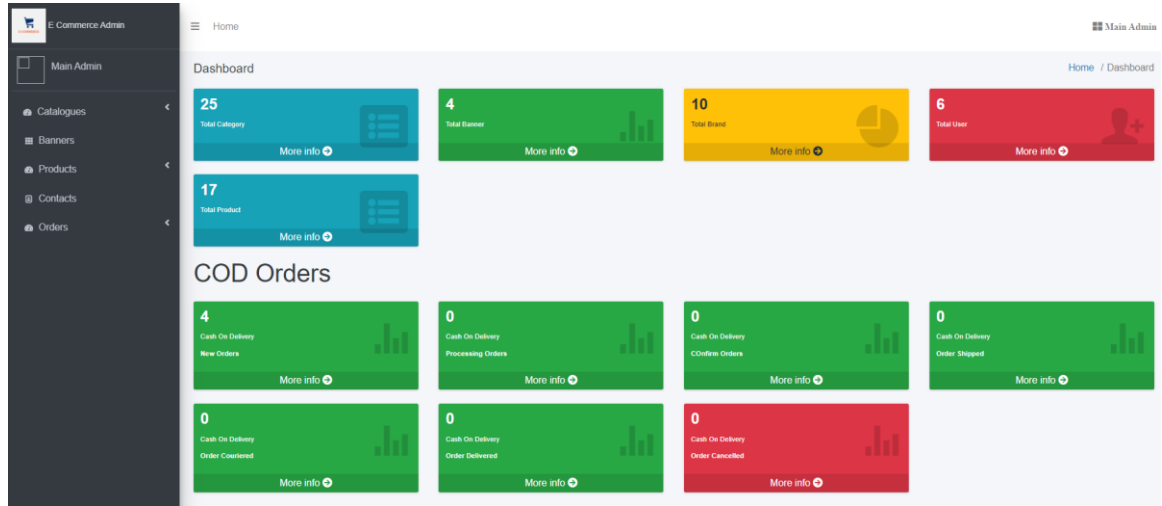


Figure 4.2.1: Dashboard

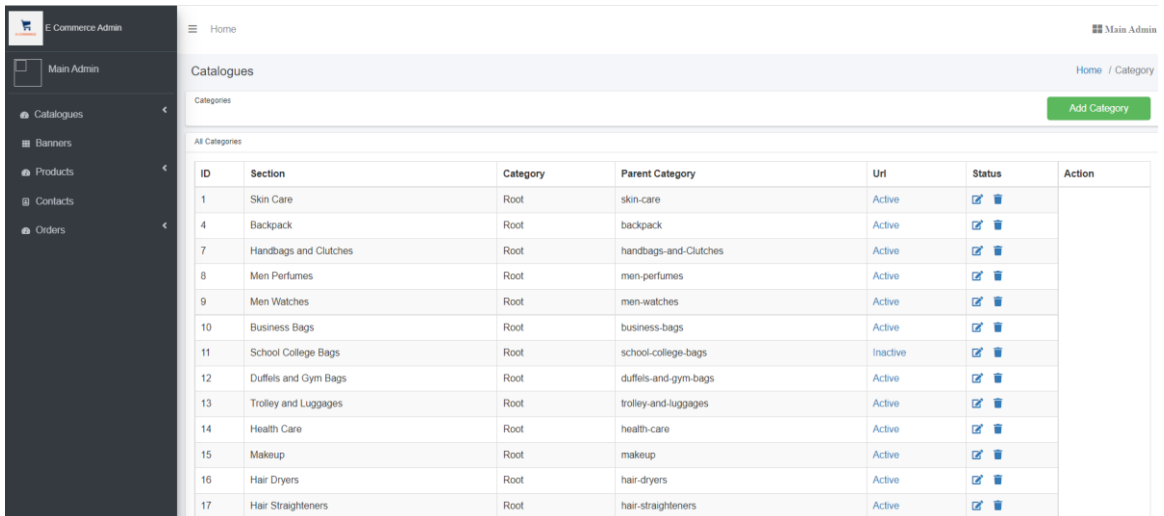


Figure 4.2.2: Catalogues

E Commerce Admin

Main Admin

- Catalogues
- Banners
- Products
- Contacts
- Orders

Home

Main Admin

Banners

Home / Banner

Add Banner

All Banners





ID	Image	Link	Title	alt	Status	Action
4		fcsafc	dkbs	sfscsf	🔴	✎ 🗑️
7		car	car	car	🔴	✎ 🗑️
8		dsgf/sig	uyguadsg	drih	🔵	✎ 🗑️
9		banner	Banner-final	banner	🔴	✎ 🗑️

Figure 4.2.3: Banners

E Commerce Admin

Main Admin

- Catalogues
- Banners
- Products
- Contacts
- Orders

Home

Main Adr

Brands

Home / Products / Bra

Add Brand

All Brands




ID	Title	Logo	Status	Action
2	Chanel		🔵	✎ 🗑️
3	Fossil		🔵	✎ 🗑️
4	Ralph Lauren Polo		🔵	✎ 🗑️

Figure 4.2.4: Brands

The screenshot shows the 'Products' management interface. The sidebar on the left contains navigation links: Main Admin, Catalogues, Banners, Products, Contacts, and Orders. The main content area has a breadcrumb trail 'Home / Product' and an 'Add Product' button. Below this is a table titled 'All Products' with the following data:

ID	Image	Name	Code	Price	Discount Price	Product Available For	Status	Action
4		CHANEL N°5 Perfume	po1	15000	13500	Online Payment Only	<input checked="" type="checkbox"/>	+
5		Polo Ralph Lauren Boys Big Pony & Number on Sleeves 100% Cotton	mp01	999	899	Cash On Delivery	<input checked="" type="checkbox"/>	+
6		Fossil Townsman Round Analog Black Dial Mens Watch	mw01	13000	12000	Online Payment Only	<input checked="" type="checkbox"/>	+
7		AMERICAN TOURISTER Medium 30 L Backpack Gear Medium 02 (Blue)	bp0001	2500	2200	Online Payment Only	<input checked="" type="checkbox"/>	+

Figure 4.2.5: Products

The screenshot shows the 'Cash On Delivery Orders' management interface. The sidebar on the left contains navigation links: Main Admin, Catalogues, Banners, Products, Contacts, and Orders. The main content area has a breadcrumb trail 'Home / Cash On Delivery Orders' and a navigation bar with buttons: New Order, Order Processing, Order Confirm, Order Shipped, Order Couriered, Order Delivered, and Order Cancelled. Below this is a 'New Order' section with a table listing recent orders:

Billing ID	Order Date	Customer Name	Customer Email	Ordered Products	Order Status	Grand Amount	Payment Method	Actions
ECOM2109257	25-09-21	Oli	oli212121@yopmail.com	Red Full Pant	New	BDT. 1000	Cash On Delivery	
ECOM2109243	24-09-21	Saieedul Hasan	hasan42042012@yopmail.com	Blue T Shirt	New	BDT. 550	Cash On Delivery	
ECOM2109242	24-09-21	Saieedul Hasan	hasan42042012@yopmail.com	Red Full Pant	New	BDT. 500	Cash On Delivery	
ASP2109241	24-09-21	Saieedul Hasan	hasan42042012@yopmail.com	Blue T Shirt	New	BDT. 550	Cash On Delivery	

Figure 4.2.6: Cash on delivery orders

Order Details #ECOM2109257

Order Details	
Order Date	25-09-21
Order Status	New
Order Total	1000
Order Status	New
Delivery Fee	0
Payment Method	Cash On Delivery
Payment Gateway	Cash On Delivery

Delivery Address	
Customer Name	Oli
Email	oli212121@yopmail.com
Location Status	In Side Dhaka
District	Dhaka
Pin Code	1205
Full Address	Kotabagan
Mobile Number	01234567891

User Information	
User Name	Oli
Email	oli212121@yopmail.com
Mobile Number	01234567891

Update Information	
Order Status	New
Total Amount	1000
Delivery Fee	0
Advance Payment	0
Discount	0
Grand Total	1000

Product Name	Product Code	Product Size	Product Color	Product Price	Product Quantity
Red Full Pant	rb123	39	Blue	500	2

Figure 4.2.7: Order Details

Online Payment Orders

Home / Online Payment Orders

New Order Order Processing Order Confirm Order Shipped **Order Couriered** Order Delivered Order Cancelled

Order Couriered

Billing ID	Order Date	Customer Name	Customer Email	Ordered Products	Order Status	Grand Amount	Payment Method	Actions
ECOM2109256	25-09-21	Oli	oli212121@yopmail.com	Red Full Pant	Order Couriered	BDT. 600	Online Payment Only	🔍 📄
ECOM2109245	24-09-21	Saleedul Hasan	hasan42042012@yopmail.com	Blue T Shirt	Order Couriered	BDT. 500	Online Payment Only	🔍 📄

Figure 4.2.8: Online payment orders

Contact Information

Contact Information

Mobile Number
01234567891

Whatsapp Number
01234567891

Hotline Number
01234567891

Address
Dhaka, Bangladesh, South Asia, Asia, World, Milkyway Galaxy

Email
mail@e-com.com

Business Email
mail@e-com.com

[Submit](#)

Figure 4.2.9: Contact Information

Online Payment Orders

Home / Online Payment Orders

New Order **Order Processing** Order Confirm Order Shipped Order Couriered Order Delivered Order Cancelled

Order Processing

Billing ID	Order Date	Customer Name	Customer Email	Ordered Products	Order Status	Grand Amount	Payment Method	Actions
ECOM2206038	03-06-22	Oilur Rahman	oilur712000@gmail.com	TH BUSINESS SLIM LEATHER COMPUTER BAG	Order Processing	BDT. 12000	Online Payment Only	🔍

Figure 4.2.10: Order Processing

The screenshot shows the 'E Commerce Admin' dashboard with a sidebar menu containing 'Main Admin', 'Catalogues', 'Banners', 'Products', 'Contacts', and 'Orders'. The main content area is titled 'Online Payment Orders' and features a breadcrumb trail 'Home / Online Payment Orders'. A navigation bar at the top of the content area includes 'New Order', 'Order Processing', 'Order Confirm' (highlighted in blue), 'Order Shipped', 'Order Couriered', 'Order Delivered', and 'Order Cancelled'. The central heading is 'Order Confirm'. Below it is a table with the following data:

Billing ID	Order Date	Customer Name	Customer Email	Ordered Products	Order Status	Grand Amount	Payment Method	Actions
ECOM2206038	03-06-22	Oliur Rahman	oliur712000@gmail.com	TH BUSINESS SLIM LEATHER COMPUTER BAG	Order Confirm	BDT. 12000	Online Payment Only	🔍

Figure 4.2.11: Order Confirm

The screenshot shows the 'E Commerce Admin' dashboard with the same sidebar menu. The main content area is titled 'Online Payment Orders' with a breadcrumb trail 'Home / Online Payment Orders'. The navigation bar at the top includes 'New Order', 'Order Processing', 'Order Confirm', 'Order Shipped', 'Order Couriered' (highlighted in blue), 'Order Delivered', and 'Order Cancelled'. The central heading is 'Order Couriered'. Below it is a table with the following data:

Billing ID	Order Date	Customer Name	Customer Email	Ordered Products	Order Status	Grand Amount	Payment Method	Actions
ECOM2206038	03-06-22	Oliur Rahman	oliur712000@gmail.com	TH BUSINESS SLIM LEATHER COMPUTER BAG	Order Couriered	BDT. 12000	Online Payment Only	🔍 📄
ECOM2109256	25-09-21	Oli	oli212121@yopmail.com	Red Full Pant	Order Couriered	BDT. 600	Online Payment Only	🔍 📄
ECOM2109245	24-09-21	Saleedul Hasan	hasan42042012@yopmail.com	Blue T Shirt	Order Couriered	BDT. 500	Online Payment Only	🔍 📄

Figure 4.2.12: Order Couriered

The screenshot shows the 'Online Payment Orders' section in the admin panel. The 'Order Delivered' tab is selected and highlighted in blue. The main content area displays 'Order Delivered' in a large font. Below this is a table with the following data:

Billing ID	Order Date	Customer Name	Customer Email	Ordered Products	Order Status	Grand Amount	Payment Method	Actions
ECOM2206038	03-06-22	Oliur Rahman	oliur712000@gmail.com	TH BUSINESS SLIM LEATHER COMPUTER BAG	Order Delivered	BDT. 12000	Online Payment Only	🔍 📄

Figure 4.2.13: Order Delivered

The screenshot shows the 'Online Payment Orders' section in the admin panel. The 'Order Cancelled' tab is selected and highlighted in blue. The main content area displays 'Order Cancelled' in a large font. Below this is a table with the following data:

Billing ID	Order Date	Customer Name	Customer Email	Ordered Products	Order Status	Grand Amount	Payment Method	Actions
ECOM2206038	03-06-22	Oliur Rahman	oliur712000@gmail.com	TH BUSINESS SLIM LEATHER COMPUTER BAG	Order Cancelled	BDT. 12000	Online Payment Only	🔍

Figure 4.2.14: Order Cancelled

4.3 Interacting Design and UX

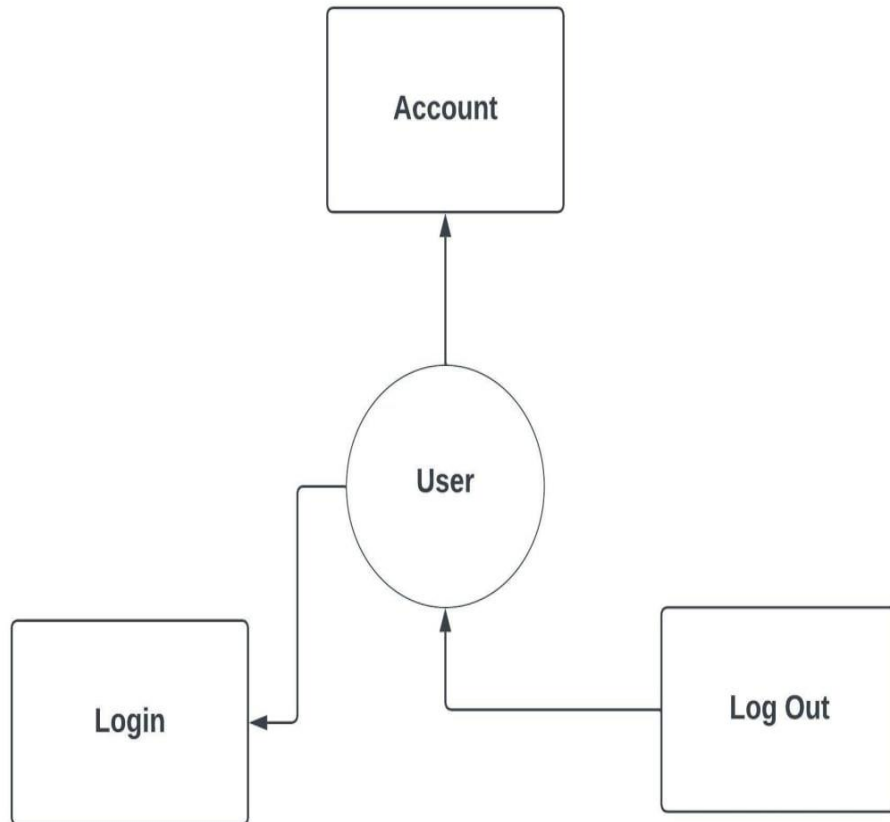


Figure 4.3.1: User Model

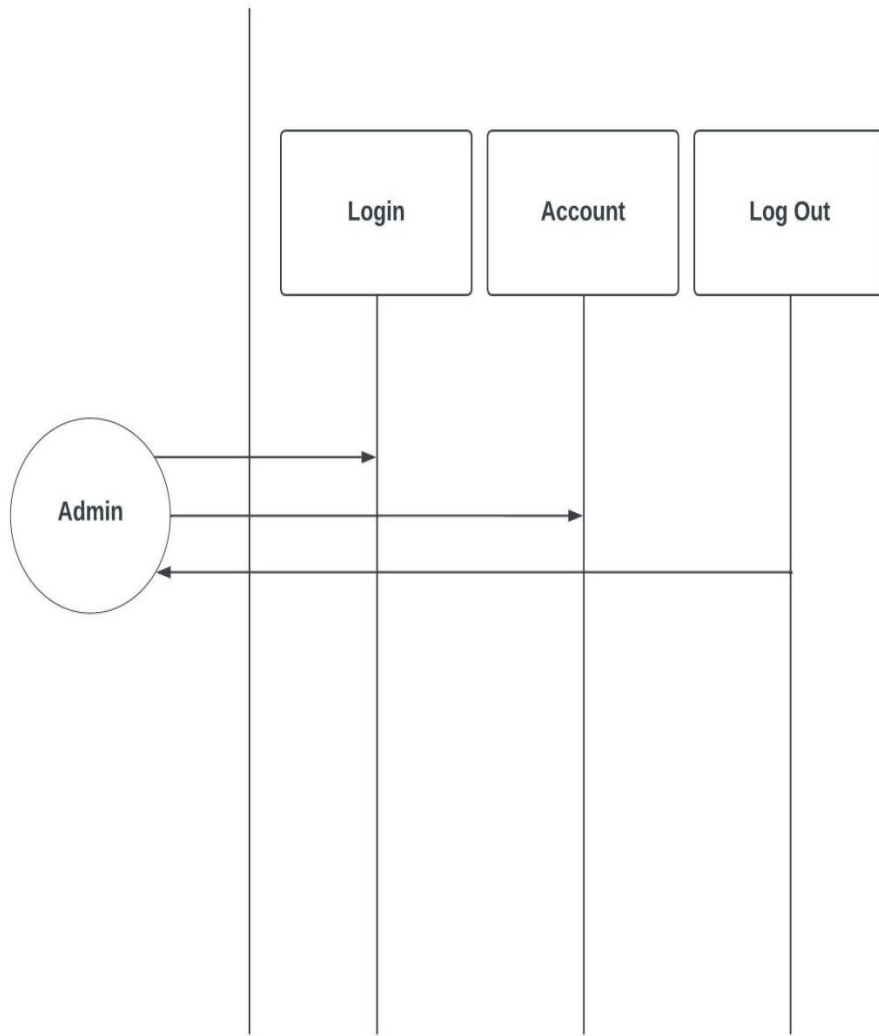


Figure 4.3.2: Admin Model

4.4 Implementation Requirement

So far, we have seen frontend design and backend design. Now we will work on it. Since we will be working on Laravel Framework, we must first convert our web template to Laravel every step of the way. If the user and admin template moved to Laravel format then we have to go to the next step. In that case programming work has to be done there. Which we need to use PHP's OOP. Once the template is in Laravel format, we need to work on the database. Which we had already prepared in the initial stage. This is also necessary for this project.

CHAPTER 5

Implementation and Testing

5.1 Implementation of Database

We said at beginning that we have a plan to start any work. Database design was part of that planning. When we create user and admin template Laravel format then we need database implementation later. Which we made somewhat. Which we will now show below,

The screenshot shows the phpMyAdmin interface for the 'users' table. The table has the following columns: id, name, email, email_verified_at, password, mobile, location_status, district, pin_code, address, status, remember_token, created_at, and updated_at. The data is as follows:

id	name	email	email_verified_at	password	mobile	location_status	district	pin_code	address	status	remember_token	created_at	updated_at
1	Saeedul Hasan	saeedul.hasan87@gmail.com	NULL	\$2y\$10\$abz2C6eKQaJRU5Ezomz2QL0RUCJm6SE803e flux...	01521323462					1	NULL	2021-09-02 05:10:17	2021-09-02 05:10:33
6	Saeedul Hasan	hasan4204201@yopmail.com	NULL	\$2y\$10\$6T7xvHqjPFB73CVBMkg6TAKOLUx1t2VgOq4P...	01521323462					1	NULL	2021-09-22 09:27:10	2021-09-22 09:27:26
7	Hasan	hasan42042012@yopmail.com	NULL	\$2y\$10\$9km7H0q4H8mm73o4Kz3o4Q4S2zL...gSSCKmW...	01234567891					1	NULL	2021-09-24 21:58:09	2021-09-24 21:58:37
8	Oli	oli212121@yopmail.com	NULL	\$2y\$10\$9mGp0GaeZyJTz883D0uJTEaPCAg6Z2RmChmHy...	01234567891					1	NULL	2021-09-25 04:57:30	2021-09-25 04:57:52
11	Abdur Rahman	abdur1872.a@gmail.com	NULL	\$2y\$10\$9YKP2uUpRqVbm7SE1at5gCaEE2w3K6FpwstaeEN...	01568822187					0	NULL	2022-06-03 09:15:40	2022-06-03 09:15:40
12	Oliur Rahman	oliur712000@gmail.com	NULL	\$2y\$10\$G2D0Z.PQyQOr9pg5Y4oubEKa9EK6DBHKwHhGw...	01953212167					1	NULL	2022-06-03 09:24:03	2022-06-03 09:24:29

Figure 5.1.1: User Table of Database

The screenshot shows the phpMyAdmin interface for the 'products' table. The table has the following columns: id, category_id, section_id, brand_id, region_id, availability_for_id, name, code, price, discount_price, size, weight, and image. The data is as follows:

id	category_id	section_id	brand_id	region_id	availability_for_id	name	code	price	discount_price	size	weight	image
4	8	17	2	2	Online Payment Only	CHANEL N'S Perfume	p01	15000.00	13500.00	20	100ml	n-5-eau-de-parfum-spray-3-4fl-oz--packshot-default.
5	22	15	4	1	Cash On Delivery	Polo Ralph Lauren Boys Big Pony & Number on Sleeve.	mp01	999.00	899.00	50	300gm	41DgXRPud@HL.jpg-34352.jpg
6	9	18	3	3	Online Payment Only	Fossil Townsman Round Analog Black Dial Mems Watch	mw01	13000.00	12000.00	30	200gm	fossil-townsman-round-analog-black-dial-mems-watch.
7	4	8	10	3	Online Payment Only	AMERICAN TOURISTER Medium 30 L Backpack Gear	bp0001	2500.00	2200.00	60	900gm	91RjCFYvnl_UY550.jpg-7273.jpg

Figure 5.1.2: Products Table of Database

Showing rows 0 - 3 (4 total, Query took 0.0005 seconds)

```
SELECT * FROM `admins`
```

id	name	type	mobile	email	email_verified_at	password	image	status	remember_token
1	Main Admin	admin	01234567891	admin@gmail.com	NULL	\$2y\$10\$zw.kwdsdohOQN81jmoMmKC.uHcnh7U7.xr2XWX77N6Y...	C:\xampp\tmp\php7388.tmp	1	NULL
2	Editor Admin	subadmin	01234567891	admin1@gmail.com	NULL	\$2y\$10\$AYg3W0xz/vUmAceUP1OhogQBqIH1HtmQpc4In4...	74319.jpg	1	NULL
3	Sub Admin	subadmin	01234567891	admin2@gmail.com	NULL	\$2y\$10\$Fk4F7yBMZTFw3PLiEdurBtJPJ90TVKLFDrO4BnO...	46053.jpg	1	NULL
4	Sales Admin	subadmin	01234567891	admin3@gmail.com	NULL	\$2y\$10\$H7ky7ZZ.DX0ztzqx30MM2evroW5p1RMzht18cobj4...	95347.jpg	1	NULL

Figure 5.1.3: Admins Table of Database

Showing rows 0 - 7 (8 total, Query took 0.0006 seconds)

```
SELECT * FROM `orders`
```

id	user_id	billing_id	name	address	location_status	district	pincode	mobile_no	email	delivery_fee	order_status	payment_gateway
1	7	ASP2109241	Saieedul Hasan	Central Basabo	In Side Dhaka	Dhaka	1214	01521323462	hasan42042012@yopmail.com	0.00	New	Cash On Delivery
2	7	ECOM2109242	Saieedul Hasan	Central Basabo	In Side Dhaka	Dhaka	1214	01521323462	hasan42042012@yopmail.com	0.00	New	Cash On Delivery
3	7	ECOM2109243	Saieedul Hasan	Central Basabo	In Side Dhaka	Dhaka	1214	01521323462	hasan42042012@yopmail.com	0.00	New	Cash On Delivery
4	7	ECOM2109244	Saieedul Hasan	Central Basabo	In Side Dhaka	Dhaka	1214	01521323462	hasan42042012@yopmail.com	0.00	New	Online Payment Only
5	7	ECOM2109245	Saieedul Hasan	Central Basabo	In Side Dhaka	Dhaka	1214	01521323462	hasan42042012@yopmail.com	0.00	Order Counered	Online Payment Only
6	8	ECOM2109256	Oli	Dhamondi In Side Dhaka	In Side Dhaka	Dhaka	1205	01234567891	ol212121@yopmail.com	100.00	Order Counered	Online Payment Only
7	8	ECOM2109257	Oli	Kolabagan	In Side Dhaka	Dhaka	1205	01234567891	ol212121@yopmail.com	0.00	New	Cash On Delivery
8	12	ECOM2209038	Oliur Rahman	28, Shukrabad	In Side Dhaka	Dhaka	1207	01953212167	olur712000@gmail.com	0.00	Order Cancelled	Online Payment Only

Figure 5.1.4: Orders Table of Database

5.2 Implementation of Front-end Design

There are few designs part use in front-end design. We'll describe in details.

HTML:

Major important in this project is HTML. Full website format working with this HTML design. There's no other option to design.

CSS:

Another Important in this project is CSS. We all know that mainly the design, color, background, responsive etc. all the style issue we using with CSS.

JS:

There're few parts we had to use JS. Because we all know JavaScript can make website easier and fast in few functions.

Ajax:

Ajax is one of the sub-section parts of JS. In this project we are heavily use Ajax. Although in cart system we need mandatory use Ajax.

Laravel Framework:

Now the main part Laravel Framework. Mainly Laravel is a PHP Framework. Nowadays Laravel have lots of popularities. Lots of demand. Everyone uses Laravel Framework because it's features and useability. For the security reason we can consider Laravel Framework, cause Laravel have security purpose features. That's why everyone chooses Laravel Framework.

PHP OOP:

When talk about programming, we are using PHP OOP because we have manipulating data from database. We get a lot of data, OOP can easier to filtering data and showing in frontend design. Although this is Back-end part but we need to that OOP can use in Front-end Design.

5.3 Testing Implementation

Ready in our frontend and backend design and template format. Our database setup is ready. Now let's start the other backend programming work of our website and move ahead with the project work. And we have to keep in mind, we have to check every step and move forward. Only then will our project be completed perfectly. Below we will provide some testing samples in each case where we are doing testing implementation.

There were some issues with the slider; the image size wasn't appropriate for the slider, therefore we increased its pixel size. Then, we had a problem with the hover effect appearing in the subcategory when we hovered in the list. We also fixed that issue.

- Admin login
- User login
- Category Add – Edit - Delete
- Product Add – edit - delete
- Customer product's cart
- Reduce or increase the cart product quantity
- Checkout
- Delivery address
- Payment system
- Order collection table
- Order status
- Order invoice

The above points are the basis of the whole project. The purpose of our advanced e-commerce will be fulfilled in the right way only if they work properly.

CHAPTER 6

Impact on Society, Environment and Sustainability

6.1 Impact on Society

Our project is an online store that has the potential to significantly impact how society is shaped. In recent times, we have observed that despite wealth and influence, we are confined in any circumstance and unable to leave, despite our desire to do so. Because of that, we were unable to do our everyday tasks that required us to make unexpected trips. The availability of necessities is one of the key drivers of desire to leave the house. Anyone may request anything at any time without prior notification or declaration, but not always can the situation be made to meet our needs. Here comes our project, where people can simply sit on their sofa, use their phone or computer to browse our website and place an order in a matter of seconds without having to leave the house. They can obtain whatever they desire without engaging in risky situations or any other undesirable circumstances. The most intriguing feature is that if a circumstance arises where there is a dearth of actual money but they have a bank account, they may directly do any kind of online payment transaction for any amount. It's not just for any challenging circumstance; it's also for the habit of doing all of your purchasing online without really utilizing paper money or coins made of metal. Both the paper currency and the metal coins require the production of natural resources. Physical money can be fraudulently duplicated, and as this cannot always be checked, there is a risk of being defrauded. Physical money can also be lost, stolen, or destroyed; however, if it is transacted online, it may not have a physical existence but still exists in a virtual environment. In order to provide our clients with a sense of security regarding theft, money loss, and destruction as well as a secure, dependable, and safe payment system with legal security. People will feel free to go shopping without having to travel or interact with strangers, which increases the risk of contracting a virus or falling victim to fraud or theft. They will also not have to deal with heavy traffic or waste valuable time waiting for their destination to arrive on the road.

6.2 Impact on Environment

Companies and businesses are focusing heavily on producing low-cost products as a result of the widespread and rapid development of e-commerce. They are also concentrating on developing efficient methods and practices that maximize productivity with the least amount of effort and expense. They are unaware and thus unconcerned about the negative environmental impact. We all know that the Internet has reached almost every part of the globe. Furthermore, e-commerce effectively coordinates, collaborates, and runs a business. However, some negative effects, such as wind, can occur. Pollution, harmful radiation, and so on. Primary effects primarily caused by IT infrastructures such as terminal equipments, mobile phones, and network infrastructures; secondary effects are caused by applications such as change in warehousing, transportations, or packagings; and tertiary effects are primarily caused by consumption patterns and rebound effects. Online payments reduce physical money transactions, which reduces paper money production. The lower the rate of paper money production, the more trees will survive in the race to survival. Metal derived from natural resources, in addition to trees. Coins are made of high-quality metals, and it costs us a lot to produce them, whether they are paper money or metal coins, because they require a lot of trees to be cut down and natural metal resources to be used. Our project allows customers to use an increasing number of online payment systems. And because it reduces the need for paper money and metallic coins, another reason for deforestation will be eliminated, and the amount of natural metal resources used to make coins will be used for other important purposes. Paper money and metallic coins are a medium for virus bacteria that can be lethal. Through our project, people will not come into physical contact with money, reducing the risk of infection. Being disease-free will have a significant impact on the environment.

6.3 Ethical Aspects

Some ethical considerations for our final year project

Saving time: Our project provides an online payment system that eliminates the need to visit a shopping mall near or far from home. Nowadays, traffic is a major issue, and hours of time are wasted sitting in traffic without moving as much as they should. People do not need to waste their time in order to obtain goods. Simply place your order and pick it up.

Saving money: People will not travel because they do not need to go shopping. Traveling is not free, and as the price of petroleum rises, so does the cost of travel. Customers who use our website instead of going to a physical location can save money that they would have spent on a trip.

Risk-free transaction: The public is extremely worried about money fraud. When a big transaction is involved, both the vendor and the client are cautious about being taken advantage of. It is feasible if individuals use metal coins or actual money to pay. If people make purchases through our website, they are not required to pay us actual cash that might be fake. They will make use of an online payment system that is connected to reliable security organizations and hence difficult to fake. The recipient may be confident that the transaction was authentic and original as a result.

Less reliance on natural resources: Paper money and metallic coins must be produced by humans and require a variety of resources, including the choice of materials, the construction of a factory for production, personnel, current design trends, anti-fake systems, authentication, dependability, anti-cloning, natural materials, and the collection of materials. These objects require a lot of materials to make them as well as a lot of money. The national currency is not just anything. Therefore, it requires extensive authentication, dependability, and global recognition. Paper money is made of fiber from trees, so we must clear forests in order to produce it. To prevent cloning and counterfeiting, this metal coin needs a unique kind of metal in addition to a mix of metals. If we use more

and more online payment systems in our project, none of the previously mentioned items will be required. As a result, natural resources will survive in the race to the bottom.

Products that are simple to find: Our project provides a wide range of products to customers, as well as a user-friendly and light interface that takes into account all ages, classes, and financial situations. It is simple to use and accessible to all.

Original brand: It is a new generational trend. People are willing to pay whatever amount is required, but they need assurance that the products are authentic and original. We not only give products of original brands but also offer a look at the brands also.

6.4 Sustainability Plan

Race of improvement never end and we admire it a lot. In future we will be adding many things that are in consideration. Customer review: Now we have a section that gives us a review of a product given by the company or manufacturing institute but in future we will add a new section customer review and ratings. Where the respectable customers will be able to share their experience and review of products and also about our services as well as can add their rating in out of 5 stars. This will not only be shows to the reviewer but also to everyone that will encounter our website. It will give others a view about the brands, products and also our services. Extra discount coupon: Now our website is managed by the admin whatever we sell or features there is dependent on our decision like discount. But we will be adding some special kind of coupon to specific customers who will be able to use that and gain a decent amount of discount or cashback on online payment for a span of time regarding any festival or occasion. This is a discount system will be decided by us but what about the brands themselves. Brands themes will also be able to offer discounts by their own and it won't be a single offer. If the offer time overlaps the discount given by us and the discount given by the brands will add up to give customers a bonus offer. Which will be unique in this sector. Compare: Comparing any specific product price in a section will be added where different price offers will be displayed by different e-commerce

website with a link of their own site. By this our customers will be able to get an idea of the products price in different sites and markets. It will prevent our customers to go to other websites but spending that amount of time in our one. By not visiting other site people will be able to get the latest and best price comparison in our site for this reason it will be recommended by a lot to others. Smartphone App: In near future we are planning to convert our project to smartphone App which will be available for every single operating system and easy to go through.

CHAPTER 7

Conclusion and Future Scope

7.1 Discussion and Conclusion

End is almost here. The project is finished. Even if weren't able to produce exactly how we had hoped, we nevertheless succeeded in achieving a significant portion of our objective. In other words, we came close to meeting our goal by 5%. which will help us achieve our lofty objectives. And ideally as a senior thesis. Some of our objectives have been wholly successful. We therefore intended to make the entire website dynamic, which it is now. We promise all of our customers and testers that we want the data on the website to be secure. We made an effort to simplify the user interface for the client. Now that the website is operational, a consumer who visits it will be able to quickly grasp every page and make a purchase. So, it is safe to claim that this website is ready for live activity. Additionally prepared as our senior project.

7.2 Scope for the Future Developments

Depending on the way things are currently developing, we may predict that this website's operations will change in the future. Otherwise, it won't be able to keep up with the current generation and will need to be updated from time to time. Security concerns, user interface, online payment system, admin panel, etc. are some areas that could be improved in the future if there are any problems that need to be addressed. Additionally, if we must declare that we are using a particular Laravel framework somewhere in the backend, we must also note that this framework might not be functional in the future. Our website's backend will change based on what functions best at the time. We shall proceed in a step-by-step manner.

7.3 Limitations

Every job carries with it some sort of duty. For instance, several of our peers are focusing on e-commerce at the same time as we are. Additionally, there have been scandals involving some very large e-commerce businesses. We can therefore remark that it is questionable how successful the e-commerce project we are working on will be. What he will do when he leaves the position is not known at this time. Additionally, even though our website has enough security, hacking is still prevalent. We'll be worried about that as well. The programming language we are currently using may not be used in the near future, or a new updated version may come out that we cannot easily use inside the currently operational website, if we look at the configuration of our website. The database we're utilizing has a limit, therefore it might not be able to handle the traffic. After that, we must switch to a new database. which is laborious. As a result, I can state that the project will likely undergo some adjustments in the future that could be viewed as a form of present-day constraint.

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