DESIGN AND DEVELOPMENT OF ECOMMERCE BASED WEBSITE

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APPROVAL

This Project titled "**E-commerce online Shopping**", submitted by Rizwan Ahmed and Sk Md Faysal Ahmad and Afsana Hossain Nupur ID No: 183-15-11836 and 183-15-11889 and 183-15-11811 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 12/09/2022.

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We hereby declare that, this project has been done by us under the supervision of **Mr. Narayan Ranjan Chakraborty, 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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Finally, we must acknowledge with due respect the constant support and patients of our parents.

ABSTRACT

Nowadays, everything is getting easier and easier for us as the days progress. There are many types of examples. But a notable example is the content of everyday life. We don’t have enough time go and shop outside which takes time and money. Sonow no need to go to market or shopping mall for shopping. Also we don't need to go far to China or Taiwan to buy, we can make instant order by clicking 2/1 at home. And we get it at home. The process of buying things have become easier. We call it e-commerce. And our project is about e-commerce. We have tried to show through this project how much more can be simplified and brought within the reach of people. What we mean by e-commerce is a very nice user interface, product presentation with complete details, cart system, payment system etc. We have tried to make all this in such a way that a common customer entering the site can understand it. They can also choose a product with different pricesand easily purchase a product. We kept trying to make complex systems easier to understand. Maybe we can solve many things. But there will be some obstacles, We will solve them in future.

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CHAPTER 1
INTRODUCTION

1.1 Introduction

Our 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 advanced 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

There are many aspects to developing e-commerce. There are many types. For example, some will only show their products, some will work on their product portfolio, some will work on customer orders, for sales purposes, etc. Our objective is to sell products. 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. Keeping this in mind, our advanced e-commerce tea is designed in a versatile way. Moreover, another name of our website can be called single seller e-commerce website. In other words, the website is owned by a company. There are many single seller e-commerce websites in our country. But other types such as multi-vendor e-commerce. There are multiple sellers who use this platform to sell their products. If we look at the international market, Amazon, Alibaba are multi-bond e-commerce. And in our country, we have Daraz, Ajker Deal etc., which are now at the highest level in our country. But we are working on single seller e-commerce website. It is mainly for independent entrepreneurs. Who have their own website, under their own name. Which I mentioned above is the sole proprietorship. It has many advantages, so many entrepreneurs create websites under their own name. And those who have management issues contract with multi-vendor websites. All systems will deliver products only to their vendors. Now whatever is used, the objective
is to sell the product to the buyer.

1.4 Expected Outcome

At present we do nothing 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 the future result is that we want to establish ourselves as an entrepreneur. And want to build a company. So that our income road is paved, so that we can be self-sufficient. In the future when the website developed in our varsity is launched as a company, it will be a good thing for our varsity as well. Our varsity produced a fine alumnus. And if we can create successful companies, we can create jobs in the future. Our varsity students will be able to develop their skills and learn some work by working here. We have a beautiful future beyond our imagination. We want to work on our future plans and the benefits we will get from it. I want to color our plan with far-reaching thinking and hope everyone will benefit from it.

1.5 Report Layout

The Report layout describes a summary of the entire chapter. Here is a summary of all the chapters in this chapter one we describe introduction, future outcome, motivation and others. In this Chapter two we describe, our related works, our research studies also problem and challenges. In this chapter three we describe, our full web sites model diagram, recruitments & their requirements in this chapter four we describe total design description like UX, backend design, frontend design etc. In this chapter five we describe, the main fact of web site implementations and testing purpose works. In this chapter six we describe, Impact on society. In this chapter sevenwe describe, final terms of our website mean our conclusion, limitations and future scope.

CHAPTER 2

BACKGROUND

2.1 Introduction

At this stage we will discuss the background of our website. At the beginning we said that we put a lot of thought into our advanced e-commerce work. There was a much easier way. But instead of doing that, I went for the best in all aspects. Currently there are many competitions in this line where everyone can solve some problem and come up with something good. So, we are wrong to think alone. Many have much, much better solutions. Just like us. So, we had to do a lot of research. The market has understood. I have checked everything from the production of products in the market to what prices are coming in the market and what prices are published in e-commerce. We have worked keeping in mind that our target customers will be. Same goes for technical issues. It is thought that working in any language now will be useful for both our present and future. While selecting themes for website we also use modern themes to match existing themes We have made the task more convenient keeping in mind the customer's convenience which was very useful in our background research. However, we will know more details about this.

2.2 Related Works

We had to do a lot of research before starting. We monitor the websites of those who are currently engaged in e-commerce work and create work base. These are just some of the goal setting sharewares that you can use What kind of products do they sell? What are their actual reviews on social media? We have no idea how long it takes to deliver the product. We note everything and process our actions accordingly. As first we find the template. The template is similar to other e-commerce websites. Some create new templates according to their own designs. 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 work 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 faced many problems in programming solutions which we solve with the help of those sources

and close brothers. Now there are many benefits of working with this web framework. There are various communities of e-commerce through social media from where we get more variety of information. We don't even know any current information about e-commerce.

2.3 Comparative Studies

Study is necessary before doing any work. This also requires a lot of research. Only then we will have theoretical knowledge to work on any subject. And the rest depends on our hard work and current intelligence. One thing we knew before we started working on advanced e-commerce is that there are many people working in e-commerce right now. We are also planning, meaning we are not opposites. We will do the same. So, when we work in the same way, we have to think more creatively. We have to think in which way we can succeed. The path is not easy, but not too difficult either. So, we read again about digital market. Thinking about how we can move forward and work towards our goals. Be it building our projects or planning for the future. When we started this project, we had to learn about HTML, CSS, JavaScript. Otherwise, we won't be able to modify the template we're 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 to the field. We also had to know about the database before the project. So, we need to study before we start anything. Which will help us in our next steps.

2.4 Scope of the Problem

Maybe there will be no problem when work will start in the world! If there is a problem, it must be overcome. But here we will talk about various problems faced in our work. The first problem we faced was that many people are now working in e-commerce. Now if we also deal with e-commerce then we are all one. Then we start looking for exceptions, do some planning and try to solve it. We have started working to simplify the online shopping environment for customers. That is, we try to simplify the user interface. Then consider how to protect website information and other information. We plan to ensure customer confidence by providing the customer with the current status of our products from the time of 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 project environment setup i.e. the compiler setup where we will run the project. After catching many bugs in the beginning, many mistakes that worry us a lot. And thus begins our problem. And thus we solve the problem and move on to the next step. The next problem we may encounter is database design. Before building a complete website structure, we need to think about its database. Again, connections must be made between databases by querying relational databases. We also need to keep in mind whether the data is being stored correctly in the database. Again, you need to check if the edit or delete option is working properly. This means that we can run into problems at every step of developing e-commerce. However, this can be solved with care.

2.5 Challenges

It's not uncommon for any endeavor to have challenges. Our time also has many challenges. There is a lot of e-commerce these days. Many types of products are sold there. So, after a lot of pressure on our thoughts what is available now. We have to examine every matter very seriously from the beginning. Technology will change step by step over time. In terms of technology, programming languages are constantly being upgraded. So, we have to work on the latest version. We usually see many new version updates, difficult to understand, difficult to solve if there is a problem. We will meet this challenge. We also need to check if our project is running with current e-commerce. If not, we have to face this challenge. We have to remember that when a customer visits a website, it seems natural and easy. So, we have to keep this challenge in mind. We think building an e-commerce is not as easy as it seems. 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 sudden problem 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 mind. Then I can face any challenge that comes my way.

CHAPTER 3
REQUIREMENT SPECIFICATION

3.1 Business Process Modeling

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

3.2 Requirement Collection and Analysis

Here we can see the process from Admin Panel:

- Admin Panel
- Admin Login
- Category/Sub-Category
- Product ADD-EDIT-DELETE
- Order Table
- Order Product Details
- Update Order Status
- Order Invoice

Here we can see the process for User:

- User Login/Register
- Product Show
- Product Details
- Cart System
- Checkout
- Delivery Address
- Payment Gateway
- Order Place

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

3.3 Use Case Modeling & Description

This use case model shows the sequence of steps.

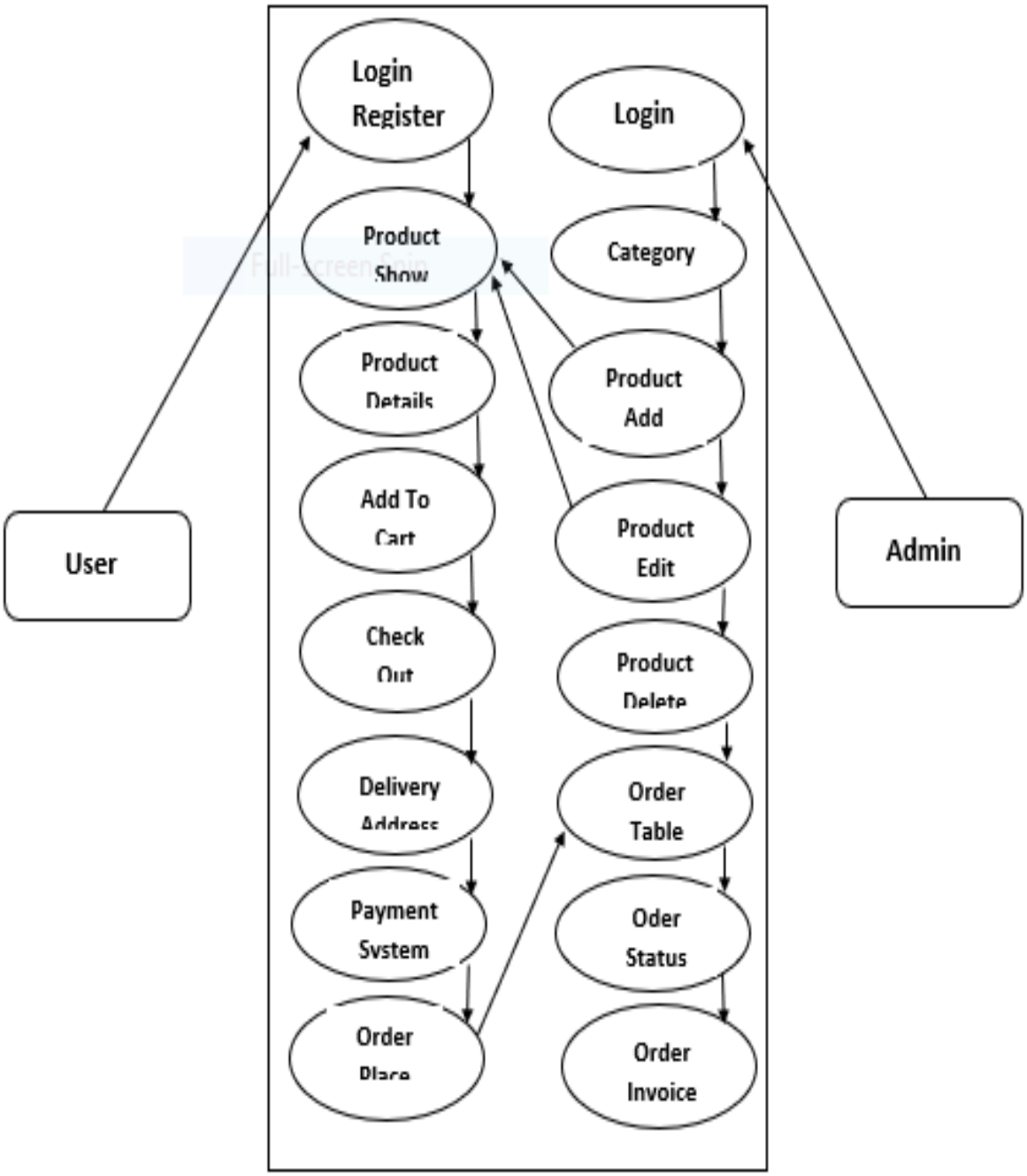

Figure 3.1: Use Case Model

3.4 Logical Data Model

The logical Model data shows the data elements in the model.

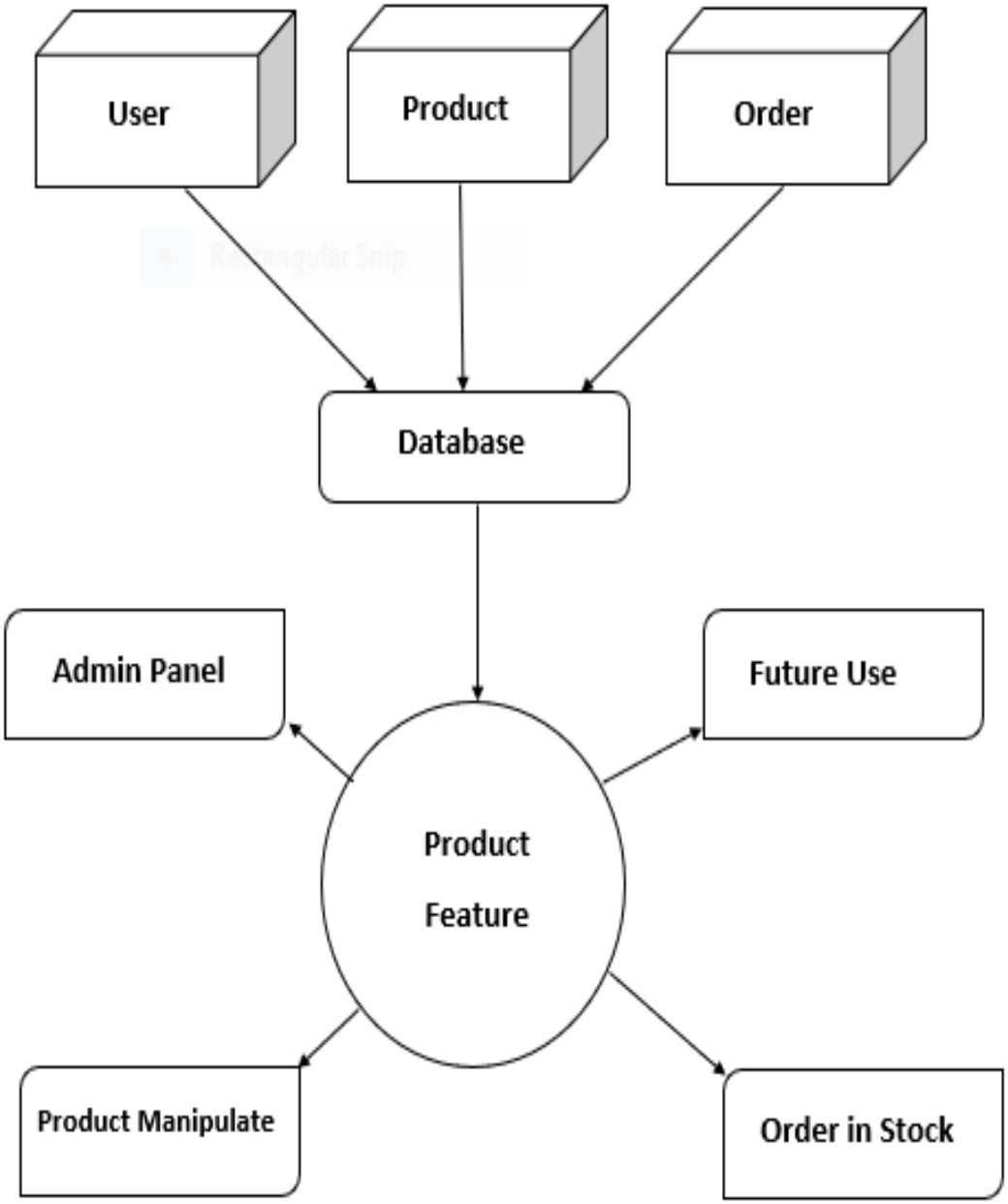

Figure 3.2: Logical Data Model

3.5 Design Requirements

Our design framework has some requirements. We have implementation plans on both user side and admin panel side. Now we show some data,

User:

- Login Requirements:
- Email and password are required to login
- Make sure your email is verified before login. Until you can login.

Registration Requirements:

- Name, Mobile Number, Email, Password required.
- After successful submission get an email verification link through submitted email id. And click on this link for email verification for customer verified user.
- After customer email verification, now customer can order any product.

Both login and registration we will use in Laravel framework and operational system will be customized, as the security system needs to be updated and secured.

CHAPTER 4
DESIGN SPECIFICATION

4.1 Front-end Design

This is our front-end page where there are Features Products and also Hot sale products.

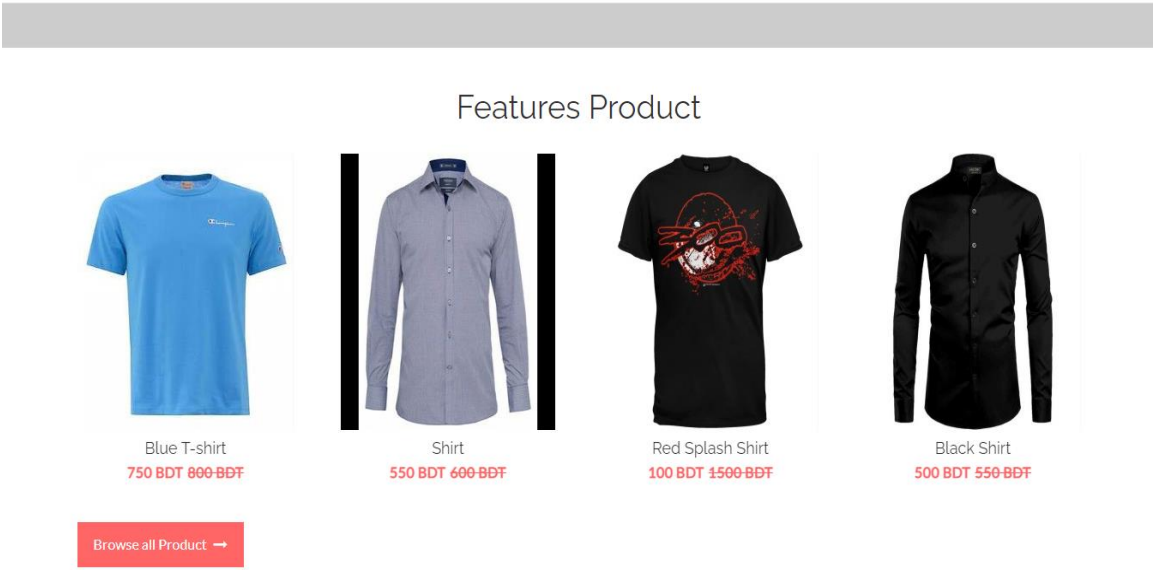

Figure 4.1: Featured Product Pictures

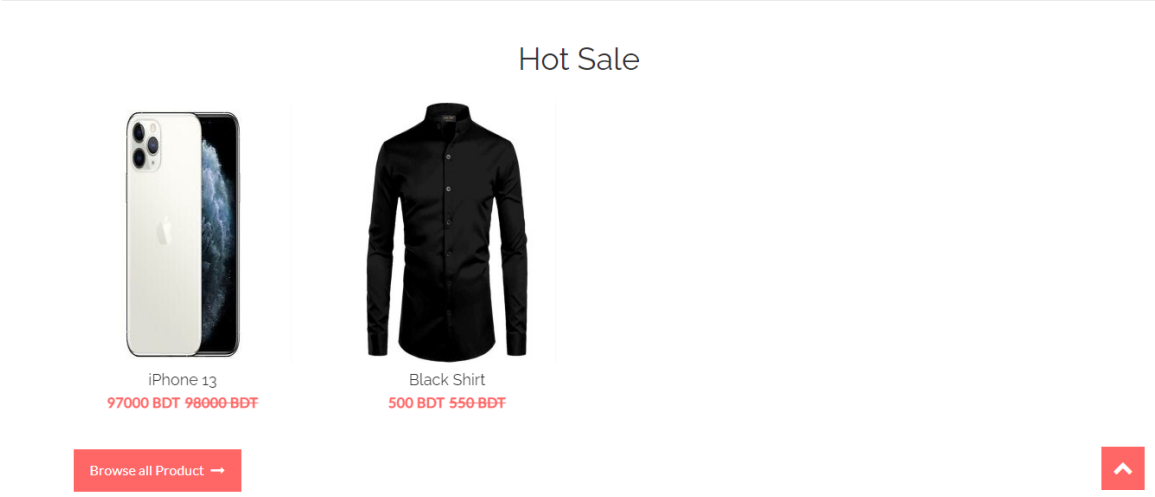

Figure 4.2: Hot sale

This web page shows the Full details of a product and also shows the product on a cart.

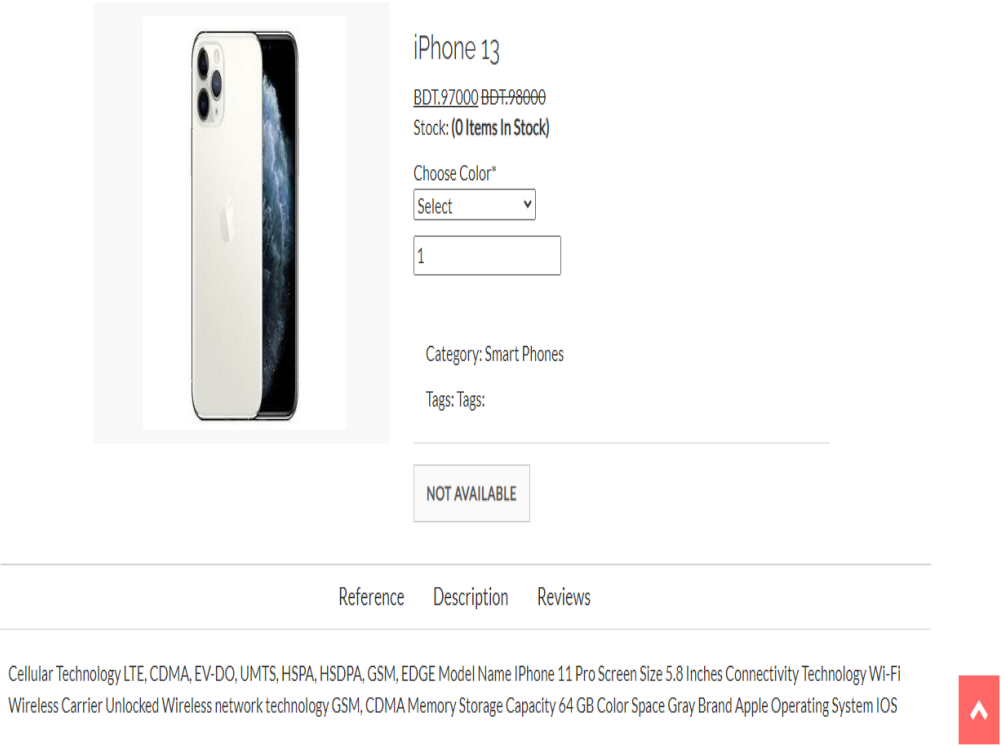

Figure 4.3: Product Details

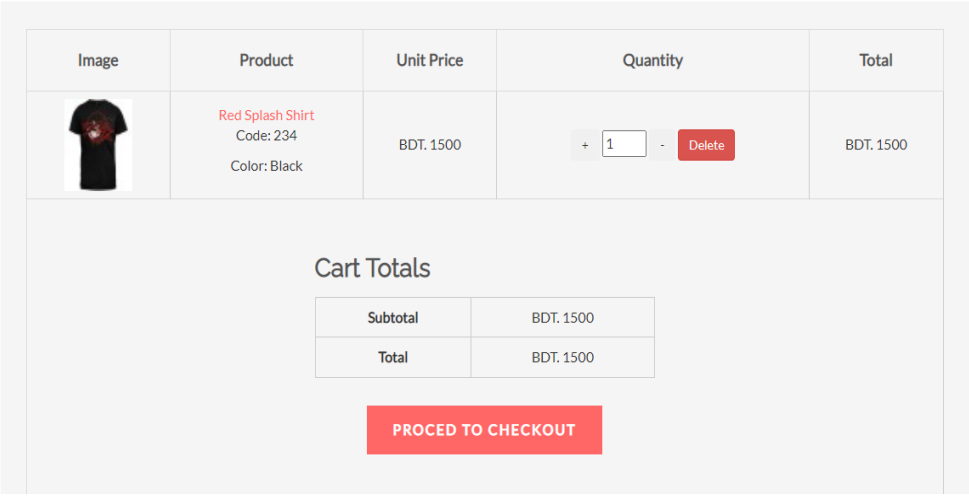

Figure 4.4: Product on Cart

This web pages shows the pictures of login-register of our site and also the contact.

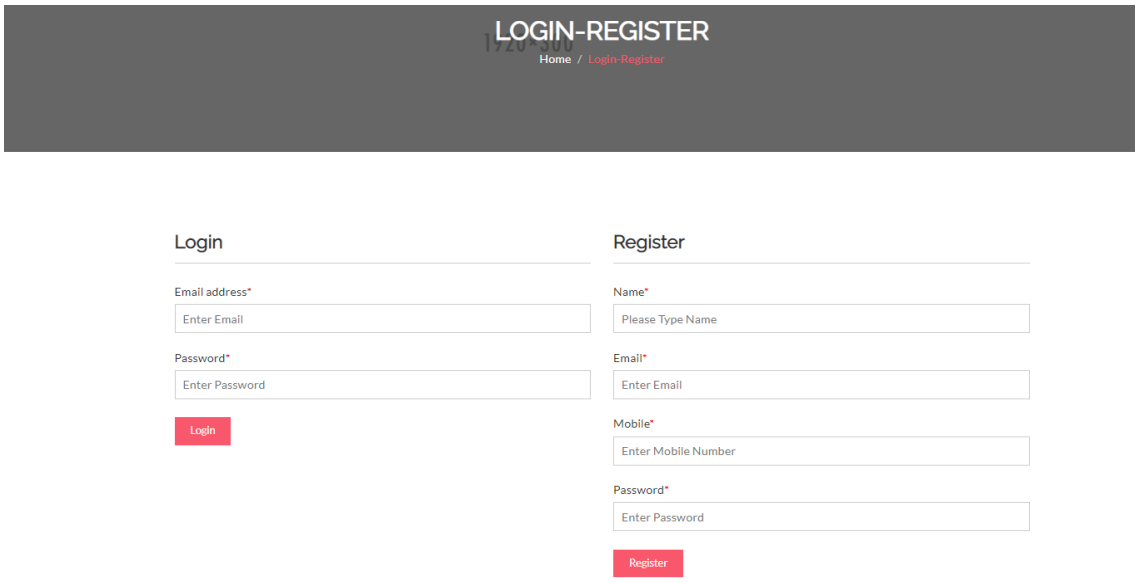

Figure 4.5: Login or Register

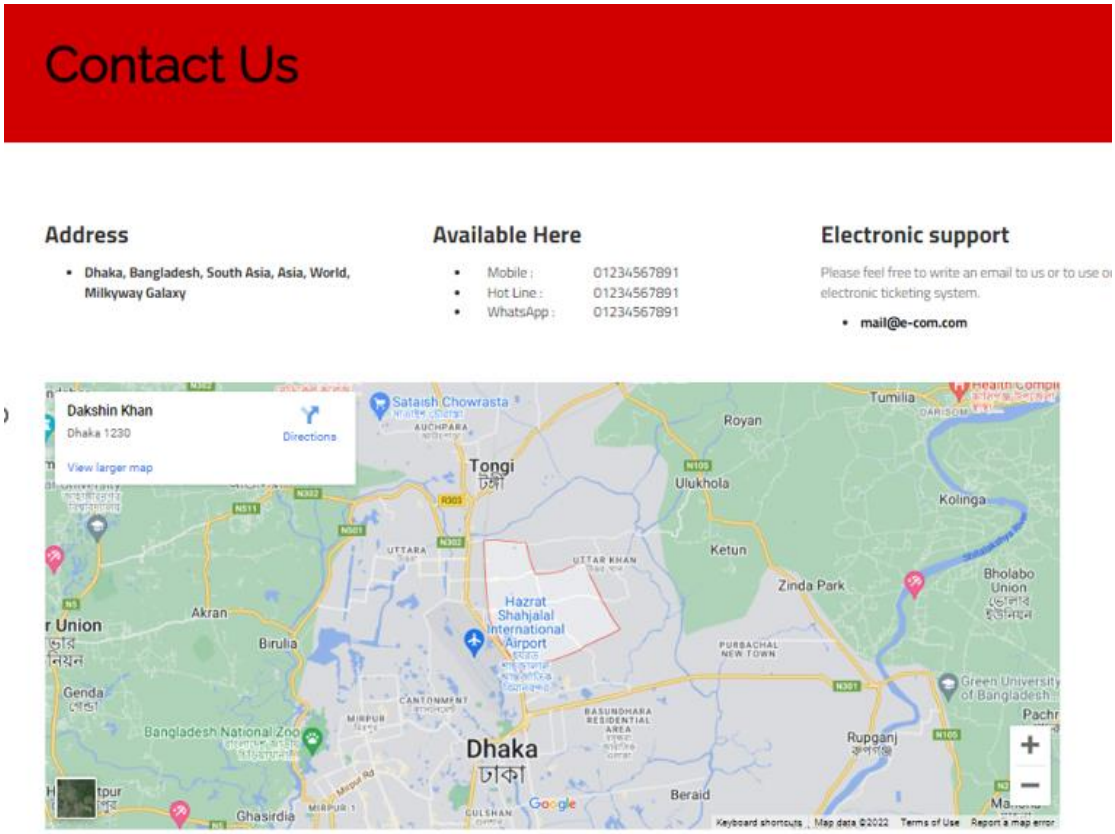

Figure 4.6: Contact

This web page show the pictures of Add-Edit Delivery Address and also order placed of our ecommerce site.

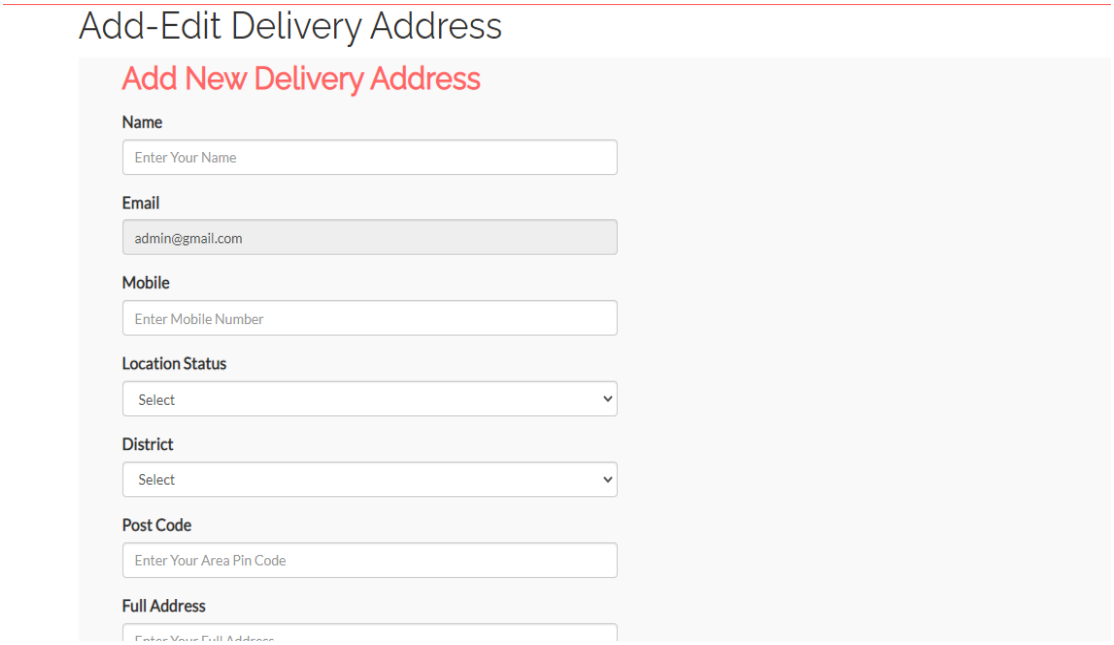

Figure 4.7: Delivery Address

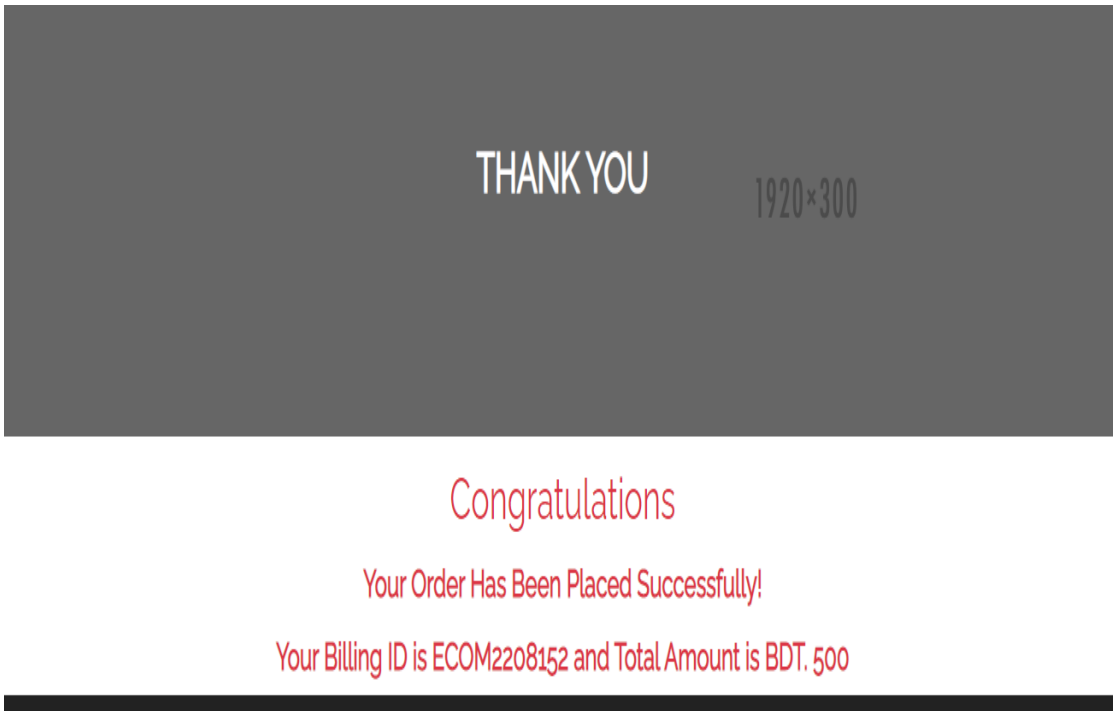

Figure 4.8: Order Place

4.2 Back-end Design

This web pages shows the Dashboard and the catalogues.

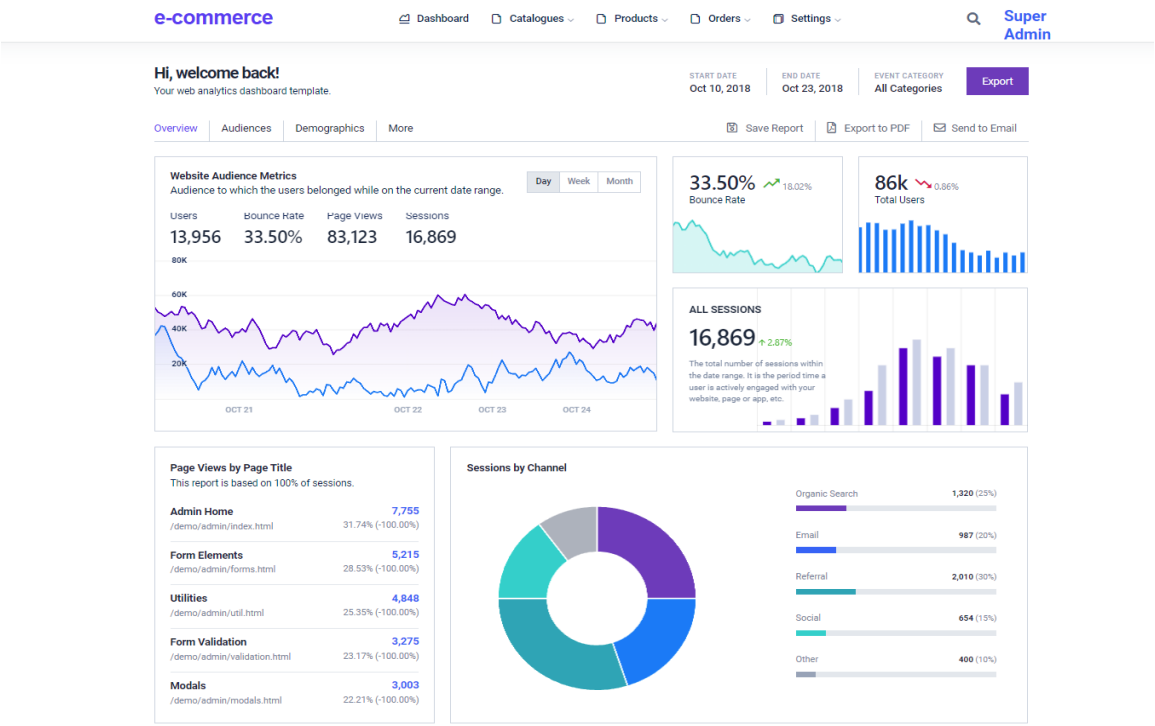

Figure 4.9: Dashboard

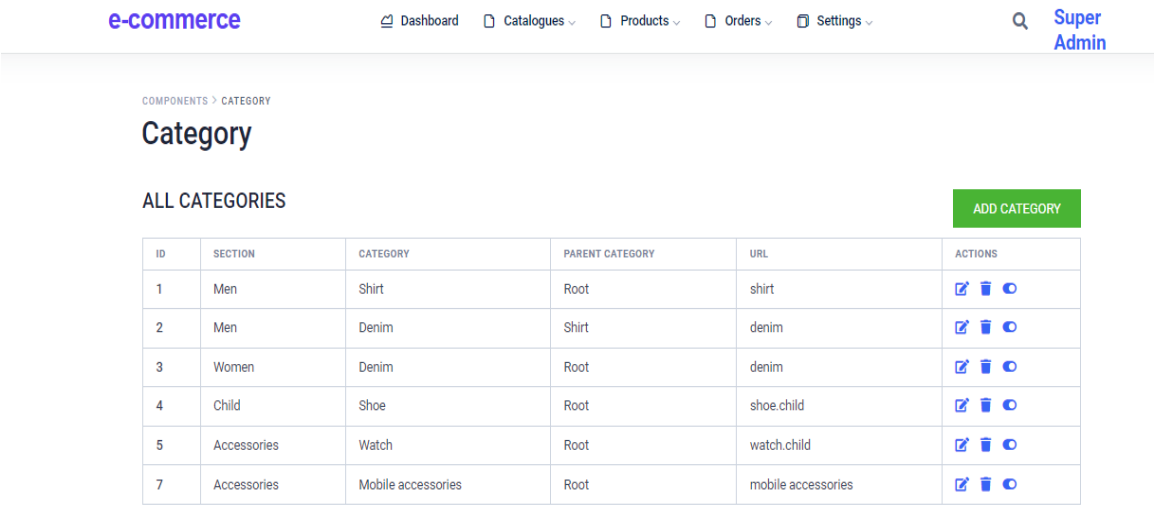

Figure 4.10: Catalogues

This web page shows the different brands and their logos and also the shows the products information in Admin panel.

Figure 4.11: Brands

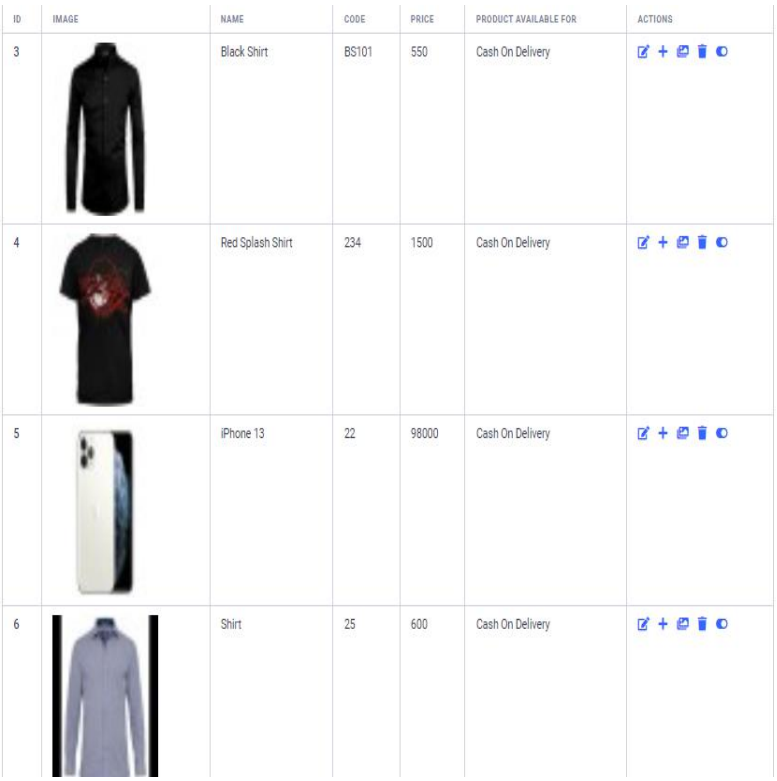

Figure 4.12: Products

This webpages shows the Cash on Delivery Orders information and also Order Details from the admin panel.

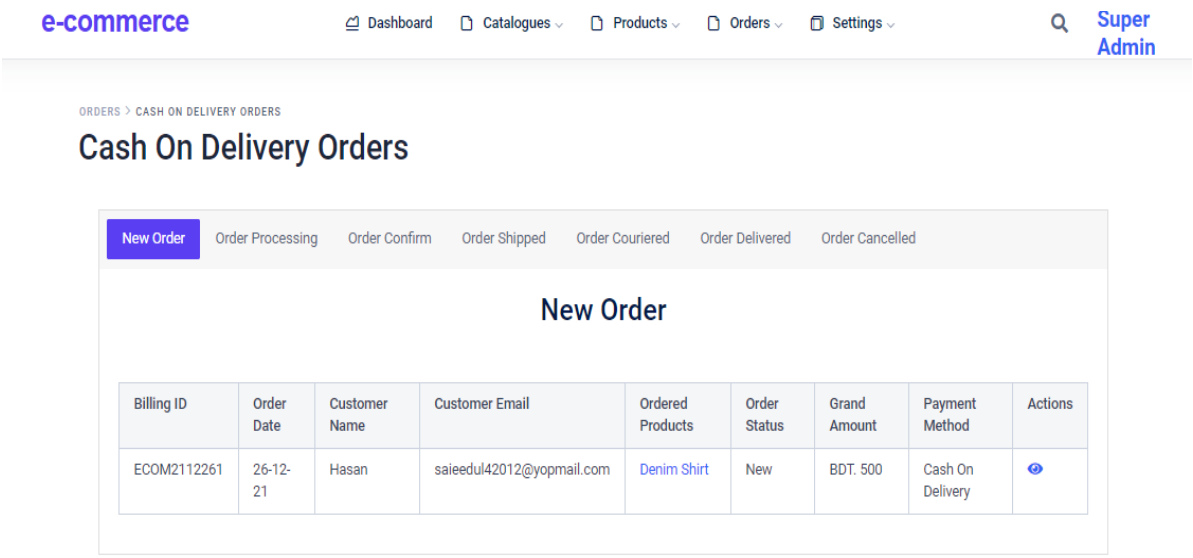

Figure 4.13: Cash on delivery orders

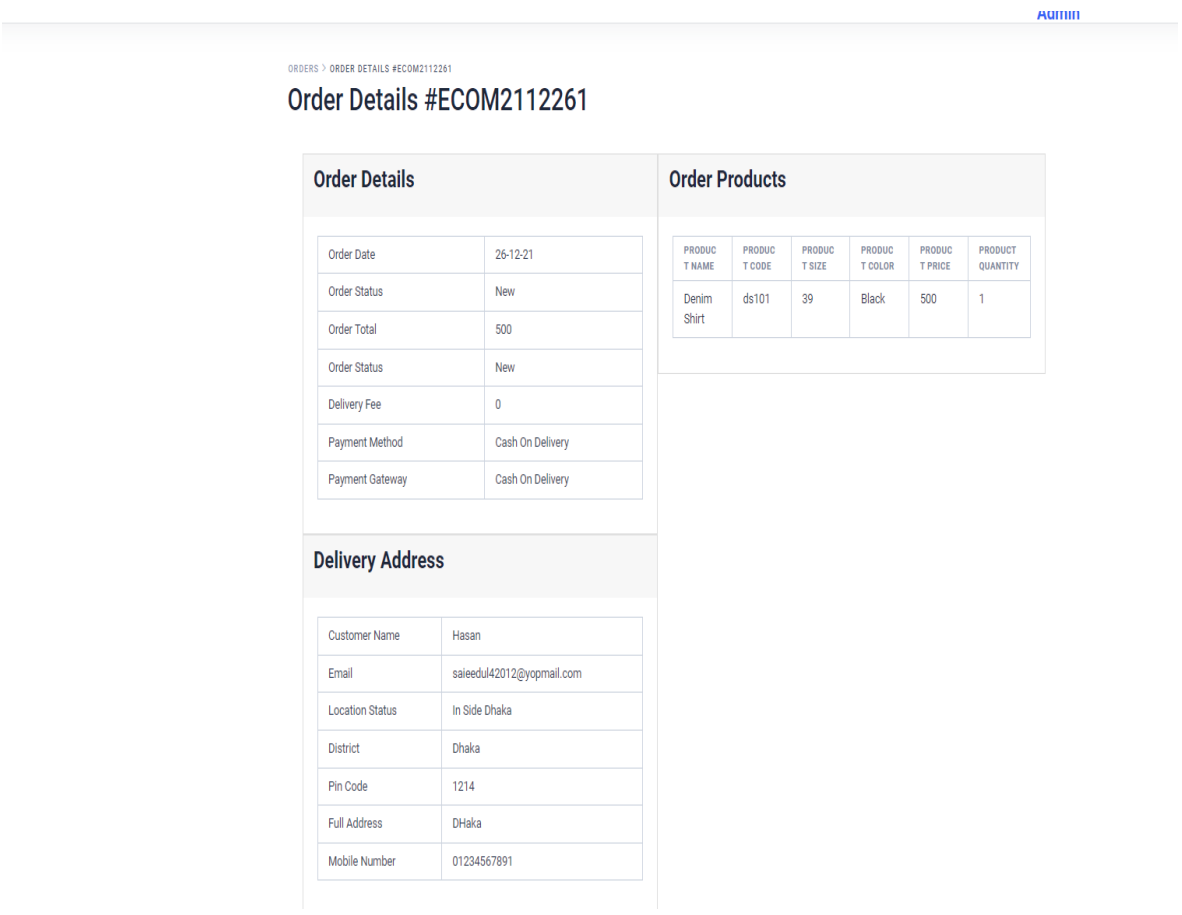

Figure 4.14: Order Detail

This web pages show the information of online payment orders and contact information from our admin panel.

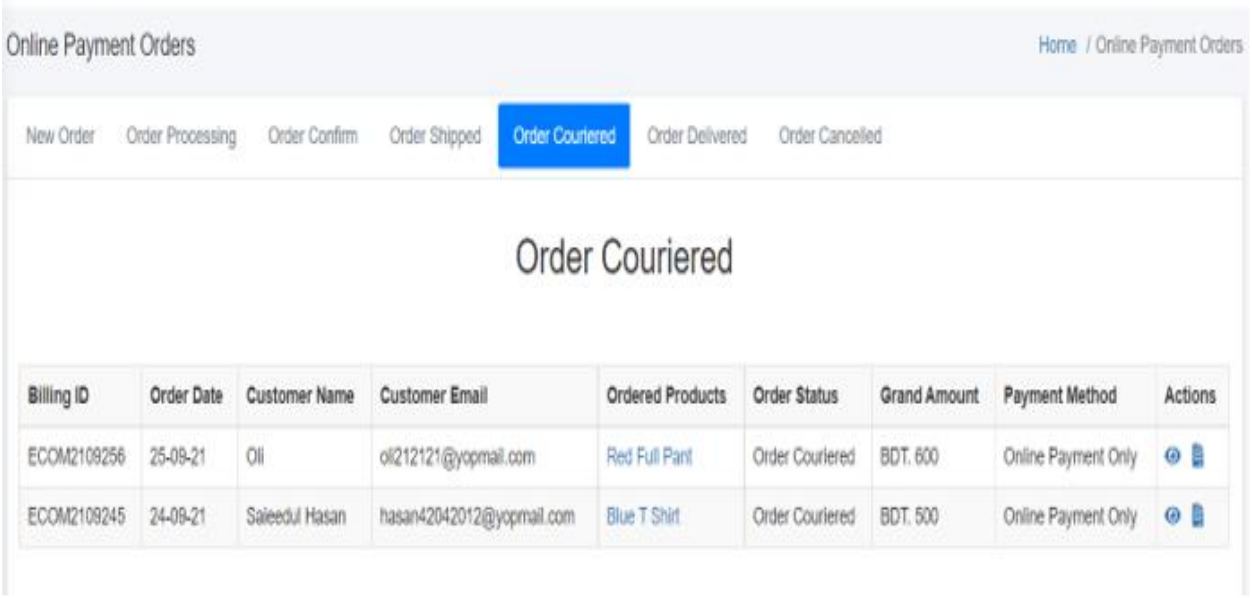

Figure 4.15: Online payment orders

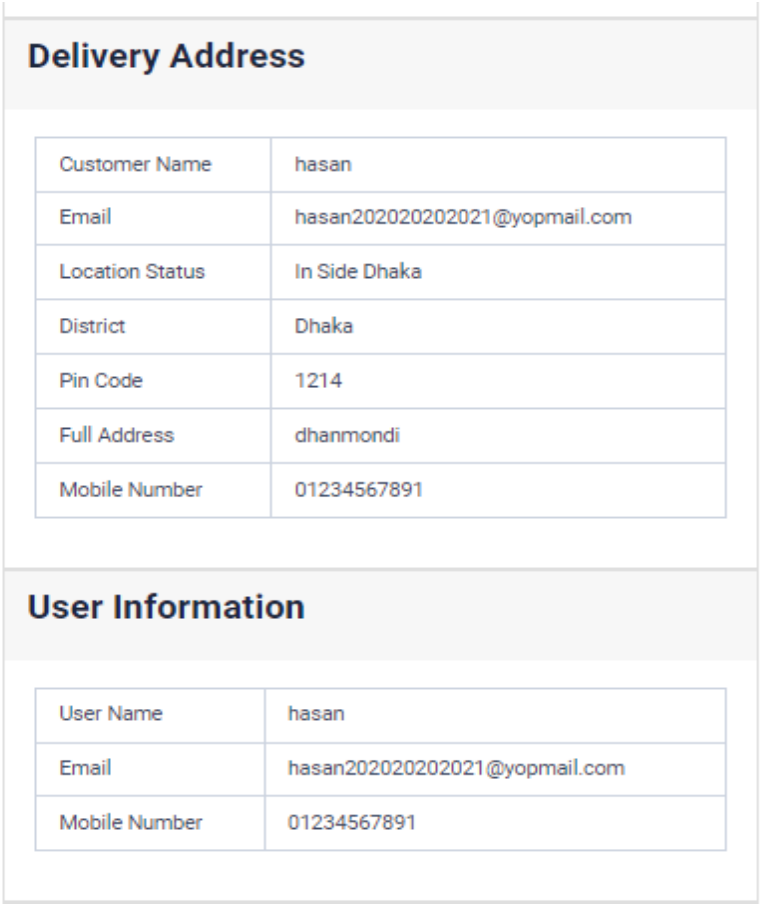

Figure 4.16: Contact Information

This web pages show the information of order processing information and also order confirm information from our admin panel.

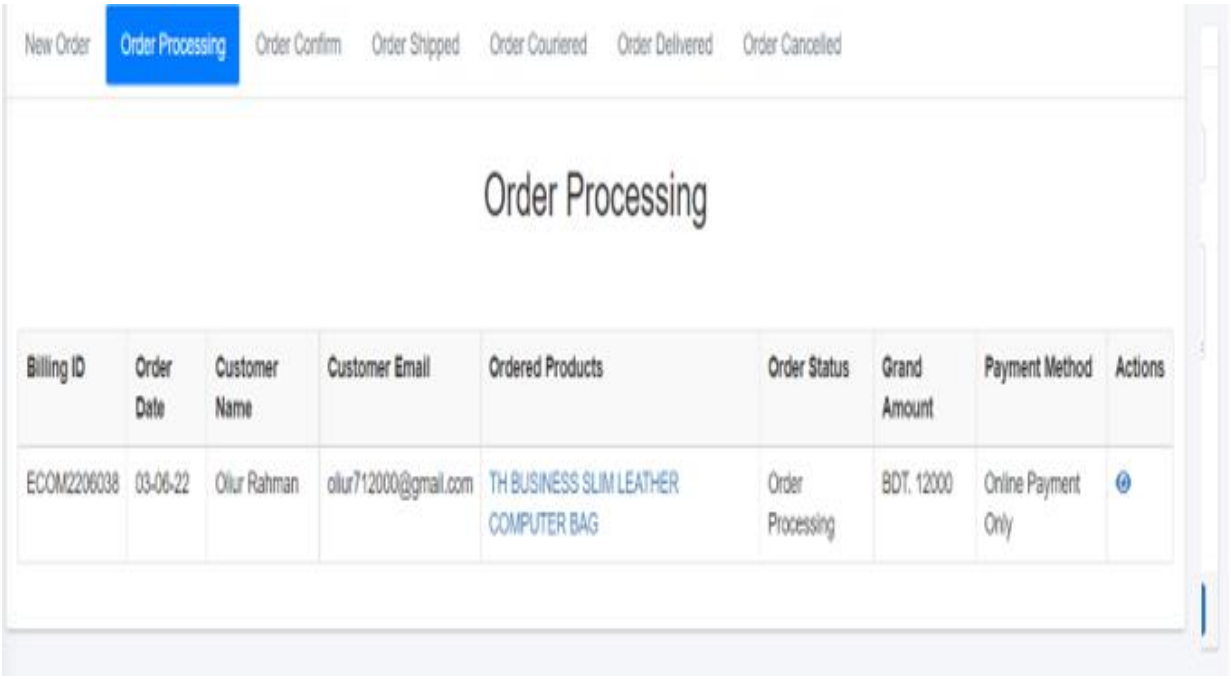

Figure 4.17: Order Processing

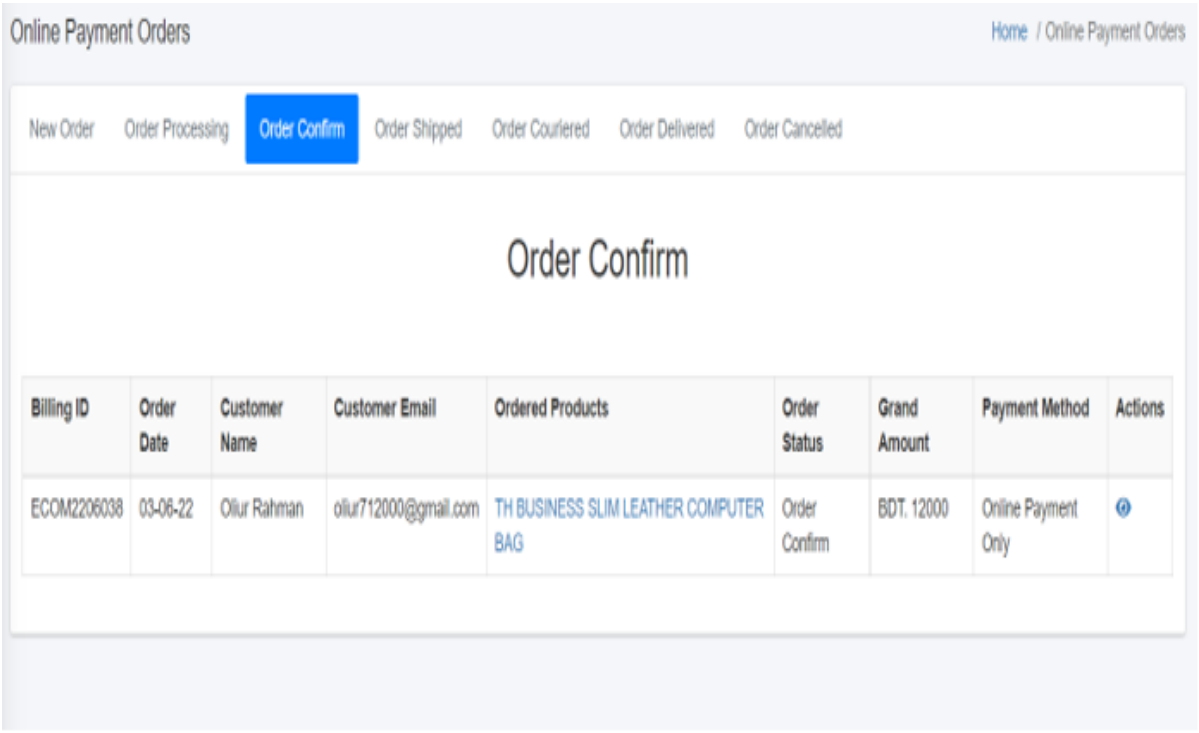

Figure 4.18: Order Confirm

This web pages show the information of order Couriered information and also order Delivered information from our admin panel.

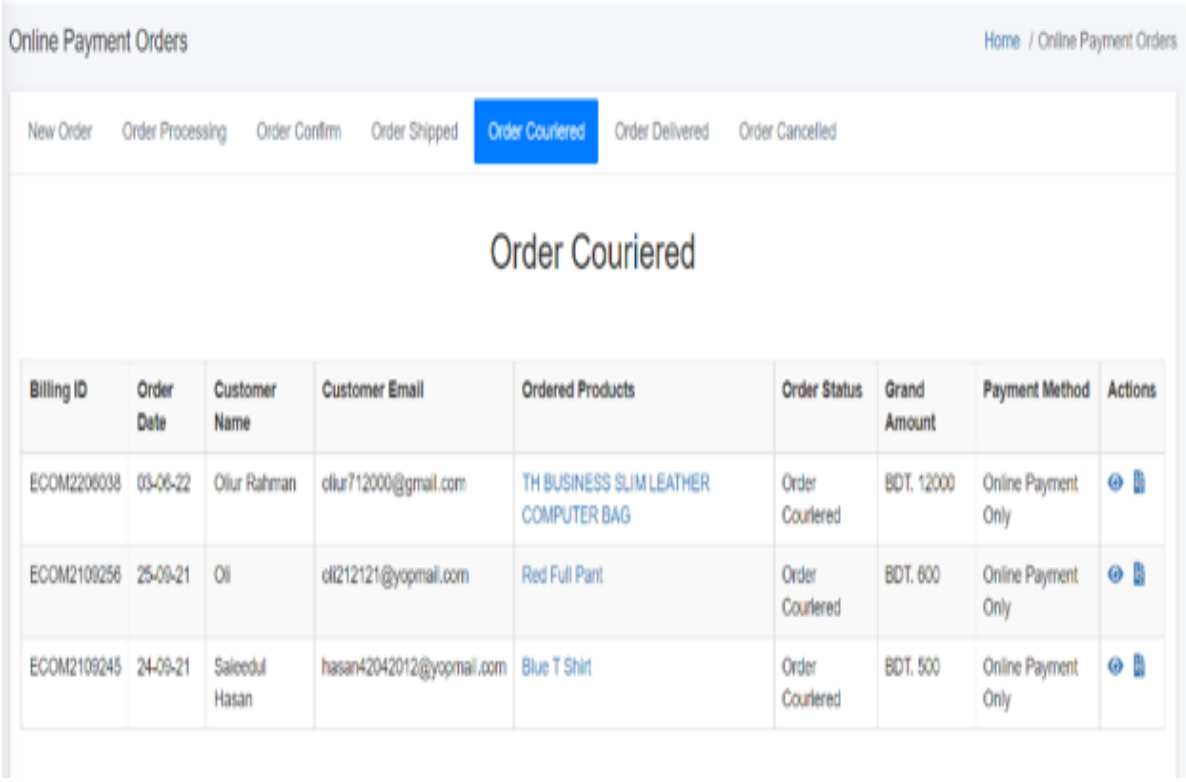

Figure 4.19: Order Couriered

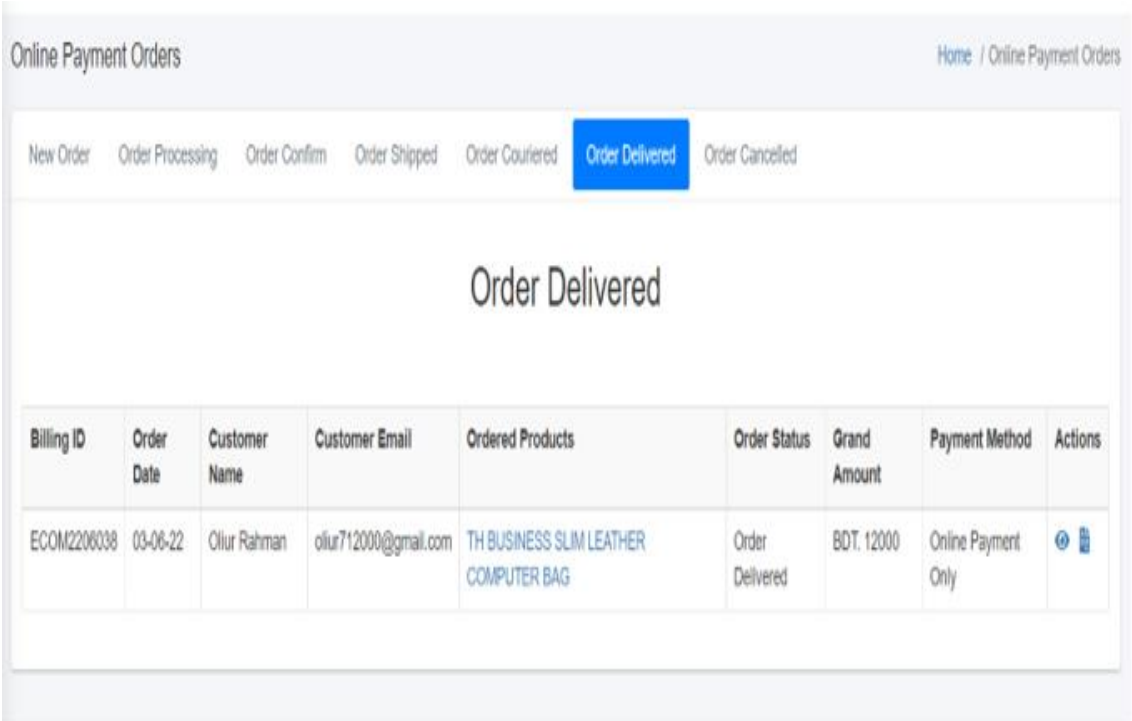

Figure 4.20: Order Delivered

This web page shows the order cancellation information from our admin panel.

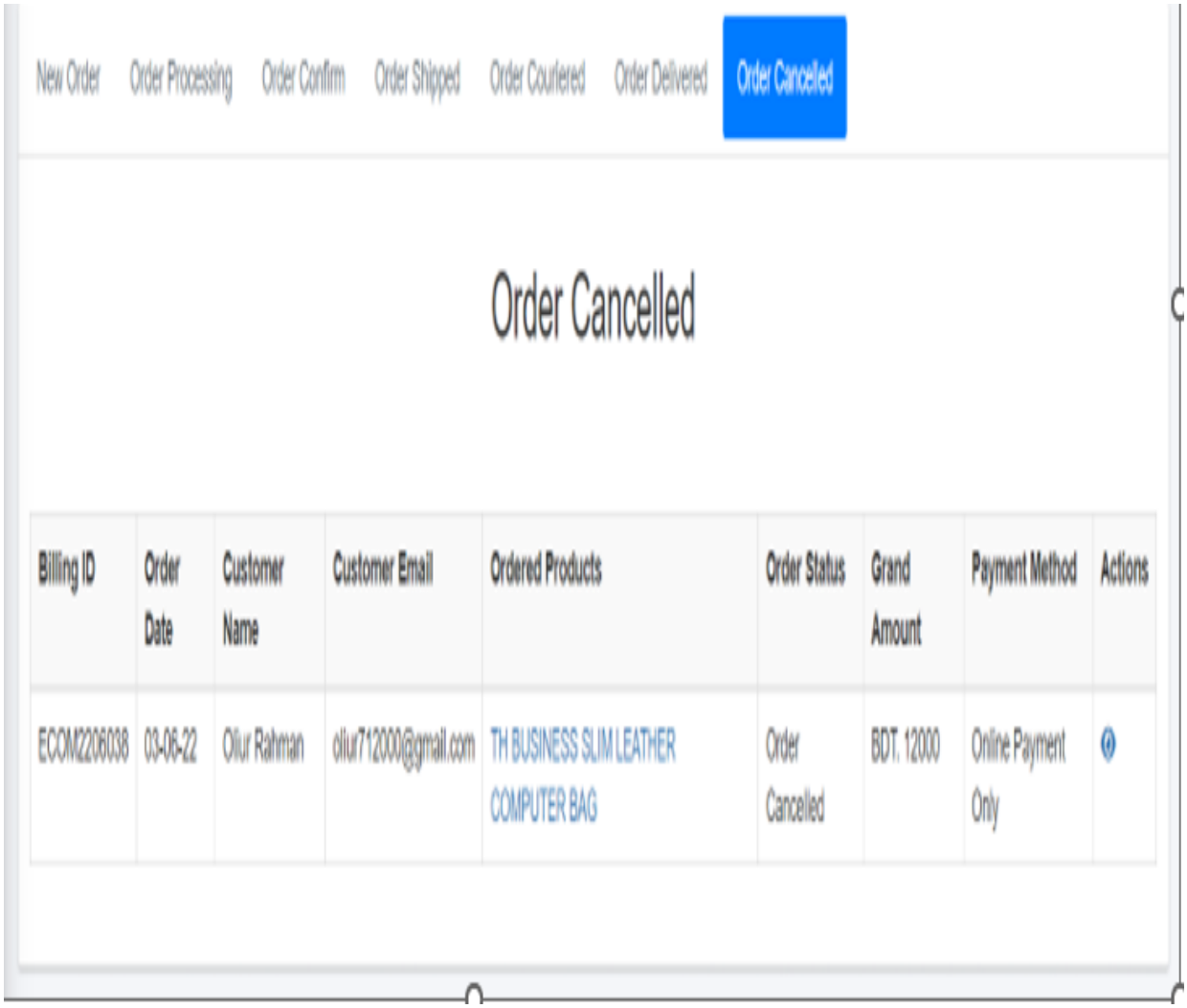

Figure 4.21: Order Cancelled

4.3 Interacting Design and UX

This is the Interacting Design and UX design of our ecommerce site where user can interact with products and other services.

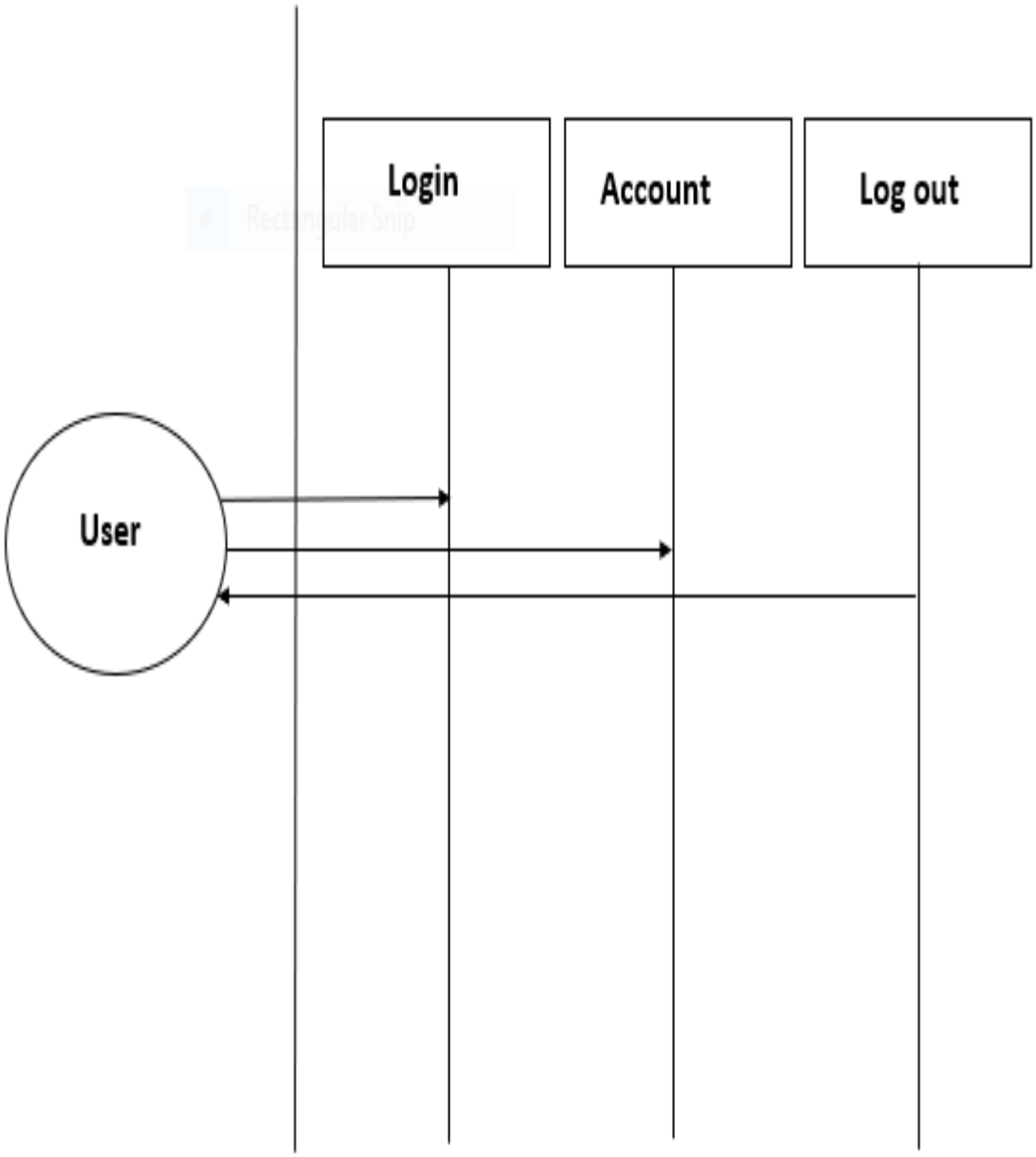

Figure 4.22: User Model

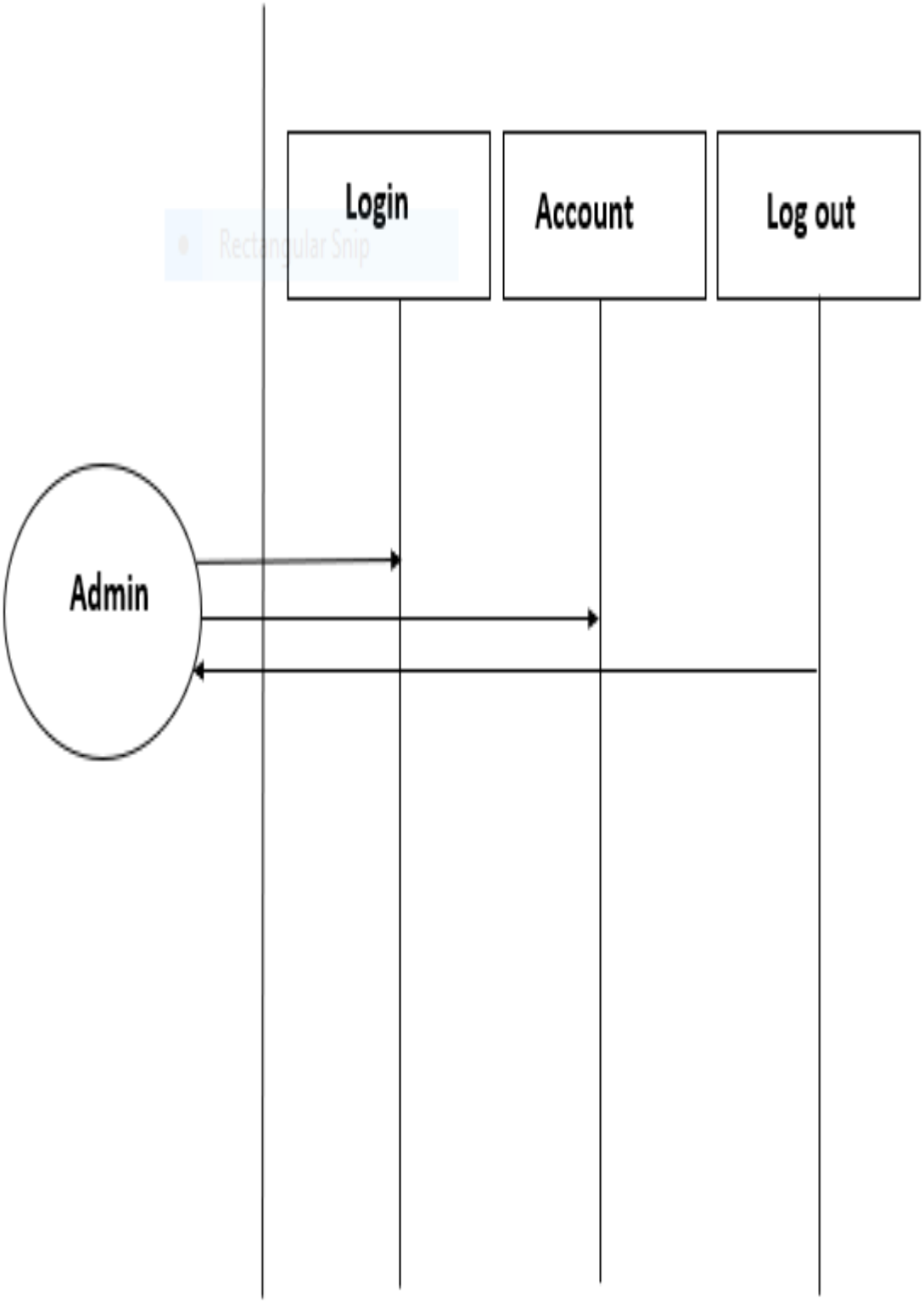

Figure 4.23: Admin Model

4.4 Implementation Requirement

So far, we have looked at frontend design and backend design. Now we will work on it. Since we will be working with the Laravel framework, we first need to convert our web template to Laravel in each step. Once the user and admin templates are in Laravel format we need to move to the next step. In that case, programming 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 have already prepared in the initial stage. It is also required for this project.

CHAPTER 5
IMPLEMENTATION AND TESTING

5.1 Implementation of Database

We said at the beginning that there is a plan to start any work. Database design was part of that plan. We need to implement the database next when we create the user and admin templates in Laravel format. Which we made a bit of. which we will now show below,

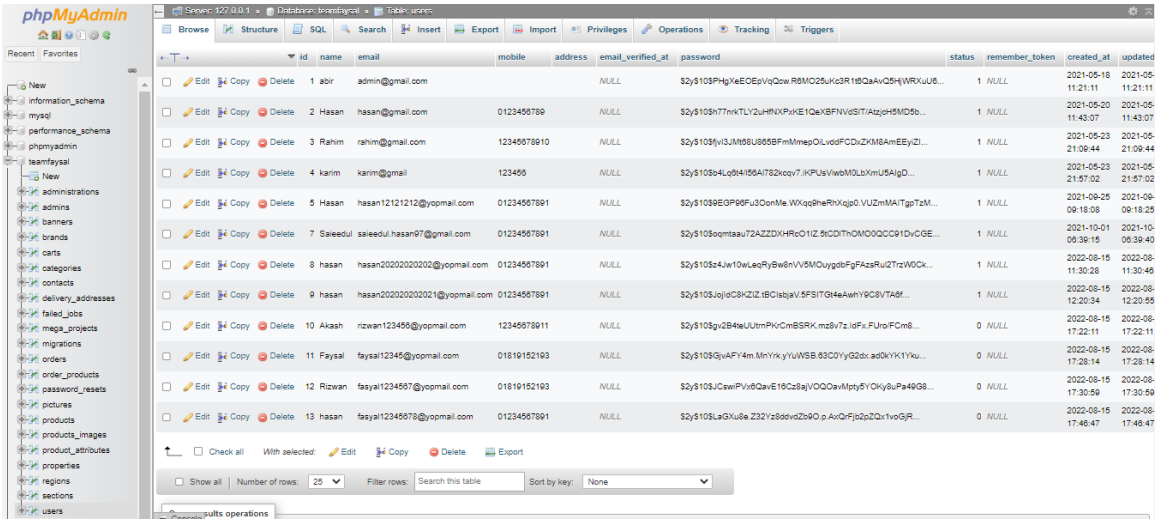

Figure 5.1: User Table of Data

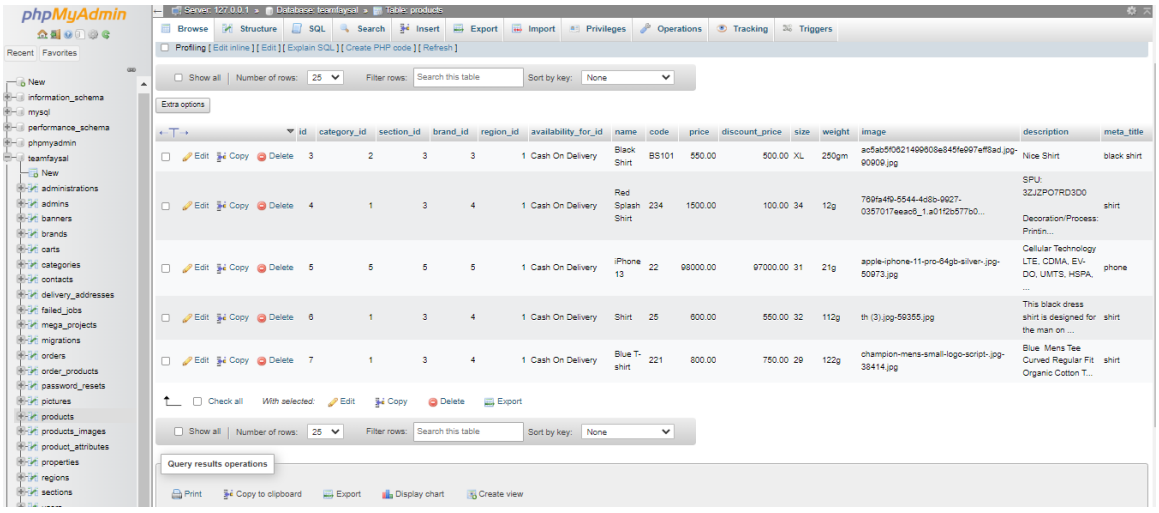

Figure 5.2: Products Table of Database

This are the figures of Admins Tables of Database and Order Table of Database.

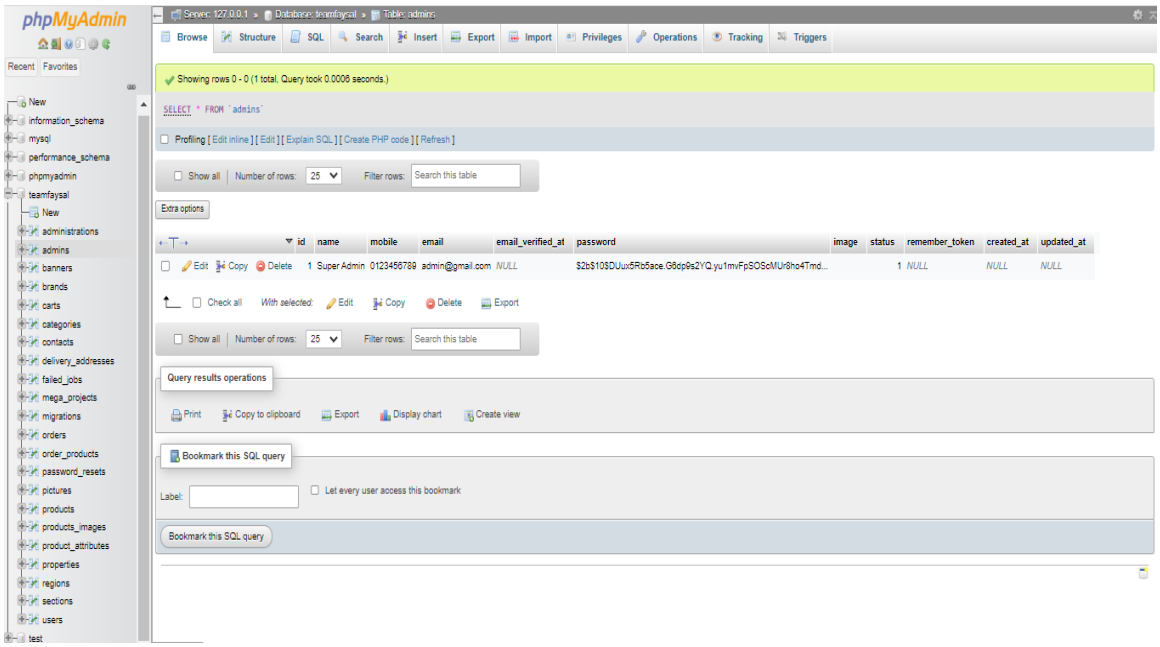

Figure 5.3: Admins Table of Database

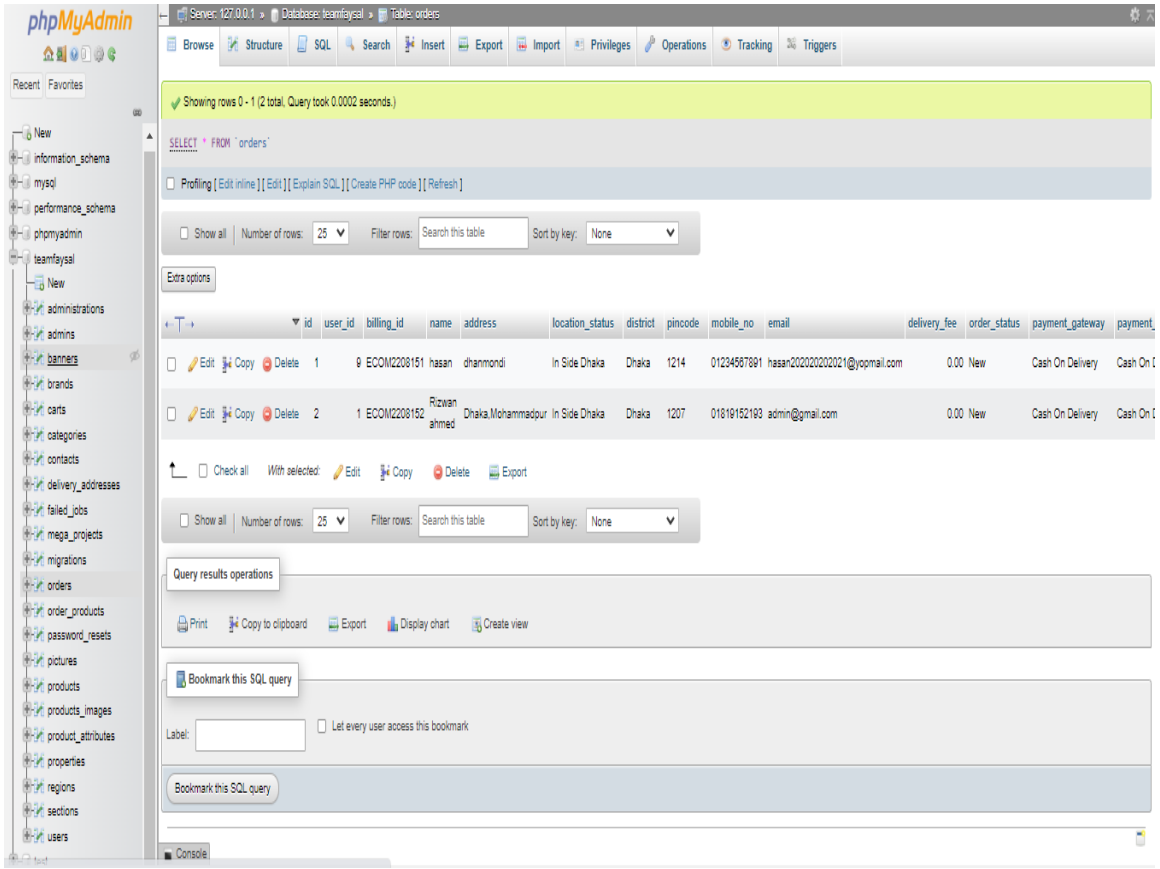

Figure 5.4: Orders Table of Database

5.2 Implementation of Front-end Design

A few design elements are used in the front-end design. We will explain in detail.

HTML:

The main focus of this project is HTML. All website formats work with this HTML design. There is no other option to design.

CSS:

Another important thing in this project is CSS. We all know that basically all style issues like design, color, background, responsive etc. we use CSS.

JS:

Some parts we had to use JS. Because we all know JavaScript can make website easy and fast in few functions.

Ajax:

Ajax is a subset of JS. In this project we use Ajax extensively. However, our use of Ajax is mandatory in the cart system.

Laravel Framework:

Now the main part is Laravel Framework. Basically Laravel is a PHP framework. Currently Laravel has a lot of popularity. Demand is high. Everyone uses Laravel framework because of its features and usability. For security reason we can consider Laravel framework, because Laravel has security purpose features. So everyone chooses Laravel framework.

PHP OOP:

While talking about programming, we are using PHP OOP as we are manipulating data from database. As we get a lot of data, OOP can make it easy to filter the data and display it in the frontend design. Although this is back-end part but we need that OOP can use in front-end design.

5.3 Testing Implementation

Our frontend and backend designs and templates are ready to format. Our database setup is ready. Now let's start other backend programming work of our website and proceed with project work. And we have to remember, we have to scrutinize every step we take. Only then our project will be completed perfectly. Below we will provide some test samples for each case where we are implementing the test.

- Admin login
- User log-in
- Category Add-Edit-Delete
- Add-Edit-Delete Products
- Customer product cart
- Decrease or increase the amount of cart products
- Checkout
- Delivery address
- Payment method
- Order Collection Table
- Order status
- Run the order

The above points are the basis of the whole project. Doing it right will fulfill our objective of better e-commerce.

CHAPTER 6
IMPACT ON SOCIETY, ENVIRONMENT AND SUSTAINABILITY

6.1 Impact on Society

Our project is an online based shopping model which helps peoples to avoid visiting to an actual place for shopping and having risk of effecting by various kind of virus. People will be relaxing for shopping at their home and ordering online. Thus shopping online they will save a lot of time as well as stamina.

6.2 Impact on Environment

Our project has an online payment system which allows customers to avoid using physical paper money and also metal coins. For this reason the use of paper note and metal cp\coin will be reduced which will lead to saving these resources and save it for future of other work.

6.3 Ethical Aspects

Some Ethical Aspects of our project

Firstly, in our project we provide time saving. In our project we provide the online payment system that eliminates the need to visit a shipping shopping mall near or far from the customer home. Nowadays traffic is the one of the main problem. When you go to market to buy some product you face the traffic and thenyou lost your valuable time. Our next Ethical Aspects is Saving money if go to market to buy some products their travel cost some money if they order form our e commerce site they save their money and they can use it for other purposes. The other Ethical Aspects is the original product provide. In our e-commerce site, we ensure that which product we provide all are original brand. In the current scenario it is the current generation trend they are willing to pay whatever amount of money but they need the original and branded product. Our side not only give original product but also offer a look at the original brand also. At last we provide Risk free transaction people are worried about money fraud. But our online transaction is not fake because our online payment is connected to reliable security organization and hence difficult to fake.

6.4 Sustainability Plan

In the future we add a lots of things that are consider now. We add customer opinion section where the customer reviews our product and ret us. they rate us by using mark 1to10 or they using the star also one to five star. We added extra discount coupon. Now the admin only added this coupon but in future we added it atomically which customer visit or purses many products in our site he or she got a extra discount coupon. In future we plan that we will convert our site in smart phone apps to available to all types of operator.In near future we will add another types of payment system by Bank access as well ATM card payment to more easy to pay.

CHAPTER 7
CONCLUSION AND FUTURE SCOPE

7.1 Discussion and Conclusion

We're almost at the end. Prepare our project. We didn't make it exactly as we wanted, but we did accomplish a lot of our goals. In other words, we achieved 95% of our target. With which we can fulfill our far-reaching goals. And hopefully as a varsity project. Some of our goals have worked 100%. As such, we wanted to make the entire website dynamic which is now dynamic. We want to keep website information secure which we assure all our customers and testers. We have tried to simplify our user interface for the customer. Now if we make the website live and a customer enters the website, he can easily understand any step on the website, and buy something with ease. So, we can say that this website is fully ready for live activities. And prepared as our final year project.

7.2 Scope for the Future Developments

The way it is now and the way it is going, we can say that the operation of this website will not be the same in the future. It has to be updated from time to time otherwise it cannot keep up with the contemporary generation. If any points need to be mentioned, what can be done in future security issues, user interface, online payment system, admin panel etc. Also, if we need to refer somewhere in the backend, then we have to. Say we are working with a Laravel framework like this, this framework may not work in future. The backend of our website will depend on what works best at the time. This is how we will work step by step.

7.3 Limitations

Every job has some obligation. For example, when we are dealing with e-commerce, many of our contemporaries are dealing with e-commerce. There have also been scandals involving some giant e-commerce companies. So, we can say that there is uncertainty about how successful the e-commerce we are currently working on will be. What he will do after leaving office is unknown at this time. On top of that we have

given enough security to our website, the world of hacking is more advanced now. We will also be worried about it. Then if we look at the configuration of our website,

the programming language we are using today may not be used in the near future, or a new updated version may come out that we cannot easily use inside the running website. The database we are using has a limit so it may not have the load capacity. Then we need to change to a new database. Which is hard work. So, I can say that there are some changes in the future of the project which can be called as a kind of limitation in the present time.

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Final Test

ORIGINALITY REPORT

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