

*Knowledge and Technology*

Bangladesh Army University of Engineering & Technology



Department of Computer Science and Engineering

A Project Report on  
**E-commerce Website**

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October, 2022

## **Bangladesh Army University of Engineering & Technology**



### **Department of Computer Science and Engineering**

### **CERTIFICATE**

This is to certify that the project entitled “**BAUET Meet**” by “**Bonna Khatun**”, **ID No.: 19104015**, “**K.M. Ferdous Zaman Wahid**”, **ID No.: 19104033**, has been accepted as satisfactory in partial fulfillment of the requirement for the course CSE-4102, “System Analysis and Design Sessional” on **October, 2022**.

Signature of Supervisor

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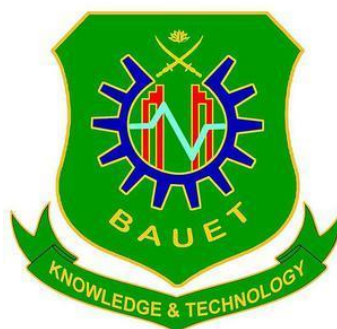
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## **Bangladesh Army University of Engineering & Technology**



### **Department of Computer Science and Engineering**

### **DECLARATION**

I thereby declare that our project entitled “**BAUET MEET**” is the result of our work. I also ensure that it does not previously submitted or published elsewhere for the award of any degree or diploma.

The work has been accepted for the degree of Bachelor of Science in Computer Science and Engineering at Bangladesh Army University of Engineering & Technology (BAUET)

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**K.M. Ferdous Zaman Wahid**

## **Acknowledgement**

We are showing our humble gratitude to the author of various papers from which we received help. We are also having some respect in our heart for the google meet, because we have built a identical clone of google meet with some marginal innovations. And also, we are thanking each-other as we have worked as a team, except our team work we would not have finished our project with in the given deadline.

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## **Abstract**

Web-based project management software is a type of software that allows users to work on collaborative projects online. This software allows streamlining distributed workflows, replacing email operations and improving remote collaborative work. Web applications include online forms, shopping carts, word processors, spreadsheets, video and image editing, email programs, etc. Our purpose of making this web-based E-commerce website is to provide services and sell products online through our E-commerce shop. We are focusing to target audiences who are not willing to buy products or take services from any local shop. This will save time also. We have used popular programming language HTML, CSS, JavaScript, PHP to build this web-based project. As a result, we get a well-designed and responsive website where customers can buy exclusive products and services without any hazard.

<b>List of Contents</b>		
Chapter	Title	Page No.
	Certificate	ii
	Declaration	iii
	Acknowledgement	iv
	Abstract	v
	List of contents	vi
	List of figures	vii
	List of Tables	viii
1	Introduction	1-2
	1.1 Introduction	1
	1.2 Objectives	1
	1.3 Advantages	2
	1.4 Disadvantages	2
	1.5 Conclusion	2
2	Background Study	3-4
	2.1 Introduction	3
	2.2 Existing System	3
	2.3 Conclusion	4
3	Proposed Model	5-9
	3.1 Introduction	5
	3.2 Flowchart	6
	3.3 Use case diagram	7
	3.4 Entity Relation(E-R) Diagram	8
	3.5 Methodology	9
	3.6 Conclusion	9
4	Design & Implementation	10-25
	4.1 Introduction	10
	4.2 Visual Representation	10-23
	4.3 Database	24-25
	4.4. Conclusion	25
5	Conclusion and Future Scope	26
	5.1 Introduction	26
	5.2 Comparison	26
	5.3. Future Work	26
	5.4 Conclusion	26

## List of figures

Figure No.	Title	Page No.
3.1.1	Agile Process Model	5
3.2.1	Dataflow diagram of proposed system	6
3.3.1	Use case diagram of proposed model	7
3.4.1	E-R Diagram	8
4.2.1	Home Page-I	10
4.2.2	Home Page-II	11
4.2.3	Home Page-III	12
4.2.4	Blog Page-I	13
4.2.5	Blog Page-II	13
4.2.6	Blog Page-III	14
4.2.7	Blog Page-IV	14
4.2.8	Blog Page-V	15
4.2.9	About Us page-I	16
4.2.10	About Us page-II	16
4.2.11	Contact page-I	17
4.2.12	Contact page-II	17
4.2.13	Contact page-III	18
4.2.14	Contact page-IV	18
4.2.15	Product page-I	19
4.2.16	Product page-II	19
4.2.17	Product page-III	20
4.2.18	Product page-IV	20
4.2.19	Cart page-I	21
4.2.20	Cart page-II	21
4.2.21	Cart page-III	22
4.2.22	Signup Page	23
4.2.23	Login Page	23

## List of Table

Table No.	Title	Page No.
4.3.1	Product Table	24
4.3.2	Use details Table	24
4.3.3	User order details table	25



# **Chapter 1**

## **Introduction**

### **1.1 Introduction**

Web-based applications are a specific kind of software that enables users to communicate with a distant server using a web browser interface. They have gained tremendously in popularity in recent years, replacing desktop applications and turning into an essential tool for both small and large organizations worldwide. [1]

Any application that is used to access data through a network utilizing HTTP and is not stored in a device's memory is referred to as a web-based application. Frequently, web browsers are used to execute web-based applications. Web-based applications can alternatively be client-based, in which case just a tiny portion of the software is downloadable to the user's computer and all processing is carried out on an external server through internet connection. We can also refer this as web app.

The usage of terminology like web-based, internet-based, and cloud-based when discussing applications causes a lot of misunderstanding. Applications that interact with users using HTTP protocol are all considered web-based applications. Both simple applications like Flash games, online calculators, calendars, and other similar tools, as well as more complex ones like web-based word editors and spreadsheet programs, fall under this category. [2]

### **1.2 Objectives**

The standard front-end and back-end web development technologies are used in web applications. Web applications and webpages are conceptually closely connected, therefore, there are many similarities between the two. When mapped to the applications document root, a web application's directory structure is completely accessible. JS files, HTML files, and static files such as image files are all found under the document in its whole and compressed form is included in a ZIP file. [3]

### **1.3 Advantages**

- Web-based applications are cost-effective
- No need to update often
- There is no need of downloading any big files
- Very Easy to run

### **1.4 Disadvantages**

- Always need a proper internet connection
- Often operates at a slower speed than any other apps relatively
- Less secure to protect important and confidential data
- Restricted functionality for non-native users

### **1.5 Conclusion**

The popularity of web development is growing as a result of its adaptability, speed, and affordability. Depending on the designer and the intended audience, web design services are often carried out for a range of purposes. Web applications, however, have their own set of advantages and disadvantages, much like other technical breakthroughs. In order to understand the benefit of web applications we have to watch out the pros and cons of it. [4]

## **Chapter 2**

### **Background Study**

#### **2.1 Introduction**

The basic idea of our project is to develop an E-commerce website where people can get their likely clothing products and can get best swing services. The e-commerce website will give retailers a channel via which they may buy and sell their goods. It will provide online shoppers an interface via which they can buy goods from both formal and unauthorized sellers. A few parts of the e-commerce website will be created using PHP, a very well-liked and adoptable e-commerce programming language. Customers can access information about the numerous items for sale on the website. Prices, product descriptions, stock availability, and product images will all be included in the information. [5]

HTML is the standard markup language to develop web pages. It stands for “Hyper Text Markup Language”. To describe the structure of a web page HTML is used. Precisely, HTML elements express the browser how to display the content of the website. [6]

CSS is the language that is used to style an HTML document. It stands for “Cascading Style Sheets”. It describes how HTML elements of the web pages should be displayed in the web browser. [7]

Purpose of the development of this project is to gather sellers and customers from different community in one platform, so that they can trade with each other as they can't do that locally for many undoubted reasons. We have used HTML to create the initial structure of our web pages and CSS to design the web pages. We also have used JavaScript to set the mechanism for the front-end beauty. And finally, we have used PHP programming language to connect our database to the website so that each and every can be stored securely.

#### **2.2 Existing System**

The E-commerce globally has been very important for the markets in the last few years, since the beginning of internet many companies started to move to this new type of media that makes in some way easily for the people not only to make or create businesses but for everything. Electronic commerce is impacting positively on the business and enterprises of local trade as they are shifting business to online to sale their product or services as well as they do locally. Means the simple way that the use of this tool has facilitated and has increased the sales and business between individuals and companies.

Many companies are creating their online shops from where customers can buy products and give their feedback. Also, the platform can recommend products or services as they search based on their choices. Customers can search products as their wish and as a result they can get images of the required product with price, sizes and details of the product. Customers can order from the site and can review the product on the site. Some existing systems are **Daraz, Alibaba, Aliexpress, Amazon, Flipkart**, etc.

## **2.3 Conclusion**

Creating an E-commerce website, we are targeting to attract audiences who are willing to buy products or services online. The main purpose of our project is to build an online platform, where people from different community can buy and sell products or services. To achieve this goal, we have already developed an e-commerce website where the product of different sellers will be displayed and customers can buy their chosen products from the listing.

## Chapter 3

### Proposed Model

#### 3.1 Introduction

For an E-commerce web frame-works the best process model used is Agile model. So, we have used the Agile process model to develop our online based e-commerce website. Agile methodology is a project management system that advocates for self-organizing, adaptive planning, flexible development, continuous changes, and early delivery. The main idea is to have teams work with shorter and multiple deadlines. This allows for more feedback from end-users, while also providing then a working product sooner, even if it isn't necessarily the final product. [8]

We had decided to use this methodology after investigating its advantages. Advantages are as follows:

- Teams can be more flexible as the users' needs change over time
- Users to get a working product much faster
- Teams can create a better final product for the end-users

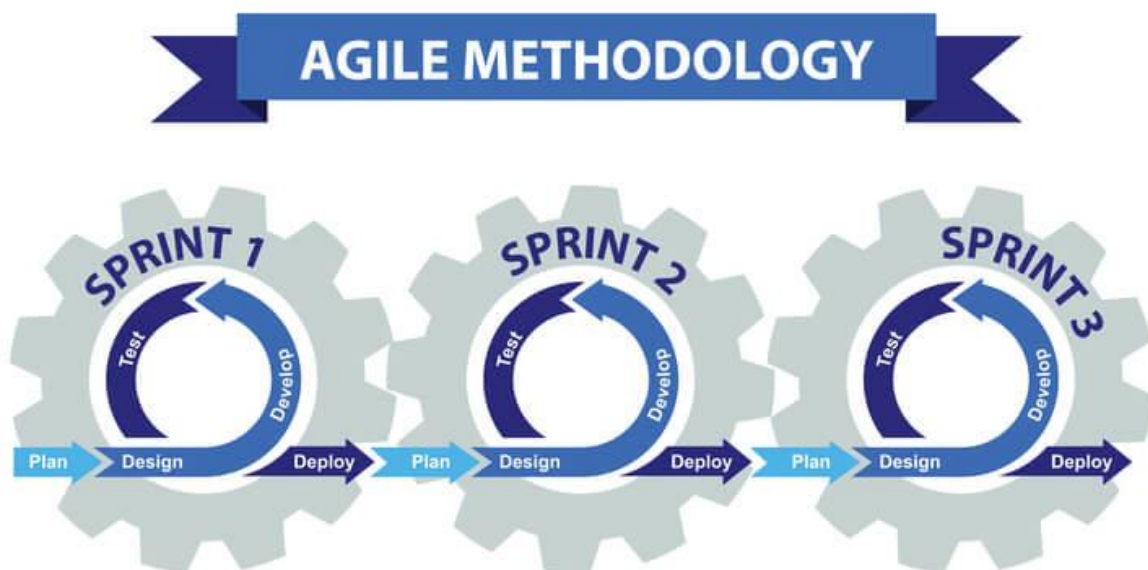


Figure 3.1.1: Agile Process Method

The Agile technique might be a terrific way to enhance our project internal procedures. It can increase efficient communication inside our project and enhance our team's responsiveness and adaptability. Overall, the result we get after using agile model focusing on the advantages, we may have improved products and contented customers.

### 3.2 Flow-Chart

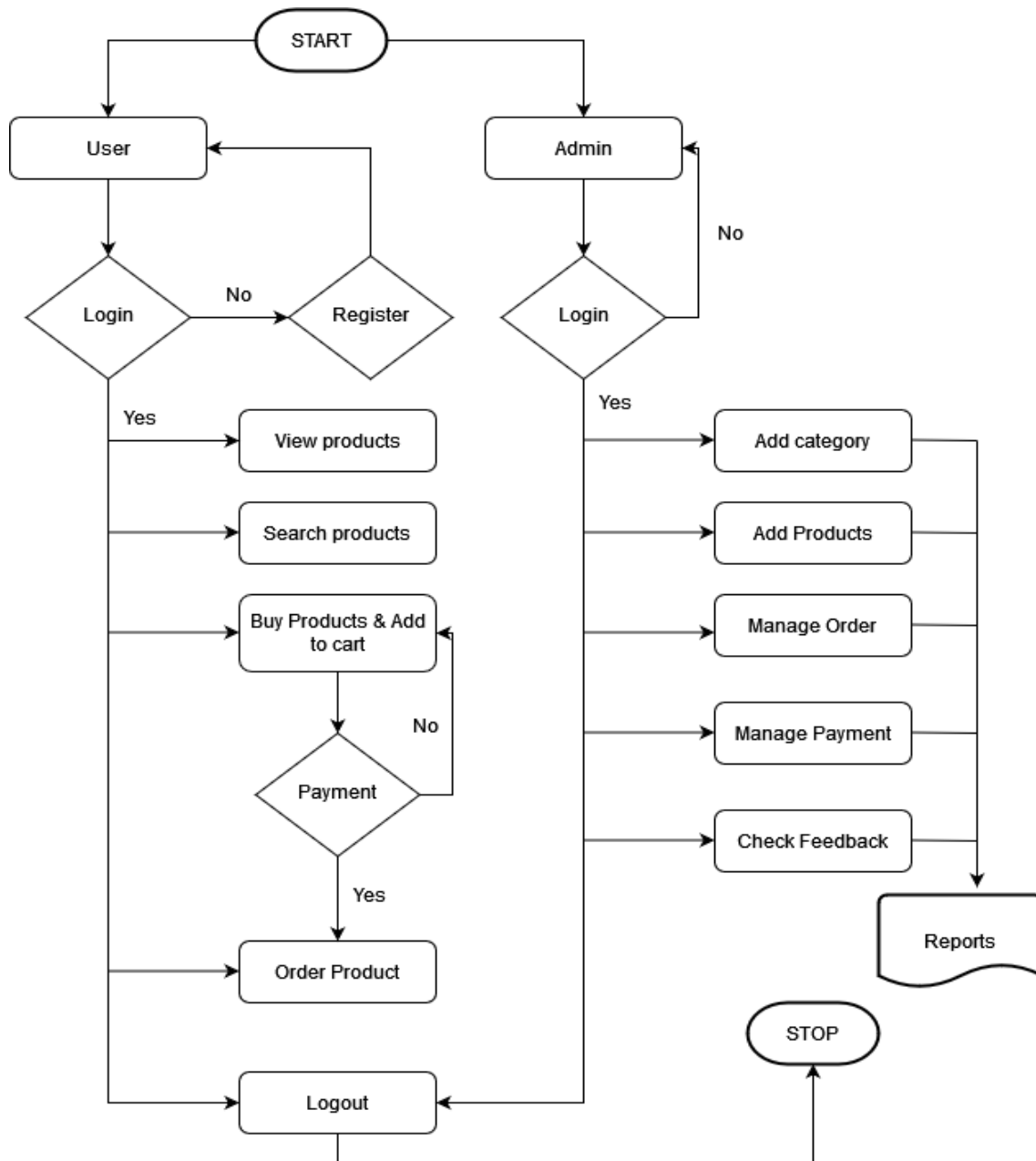


Figure 3.2.1: Data-flow of the project

This is the data flow diagram of our project. As the diagram follows, user have to register first and then have to login. After login to the system user can search products, view products, add products to the cart and then can order products after choosing payment option. As per the diagram admin can login, add products, manage orders, manage payments and can check feedbacks.

### 3.3 Use case Diagram

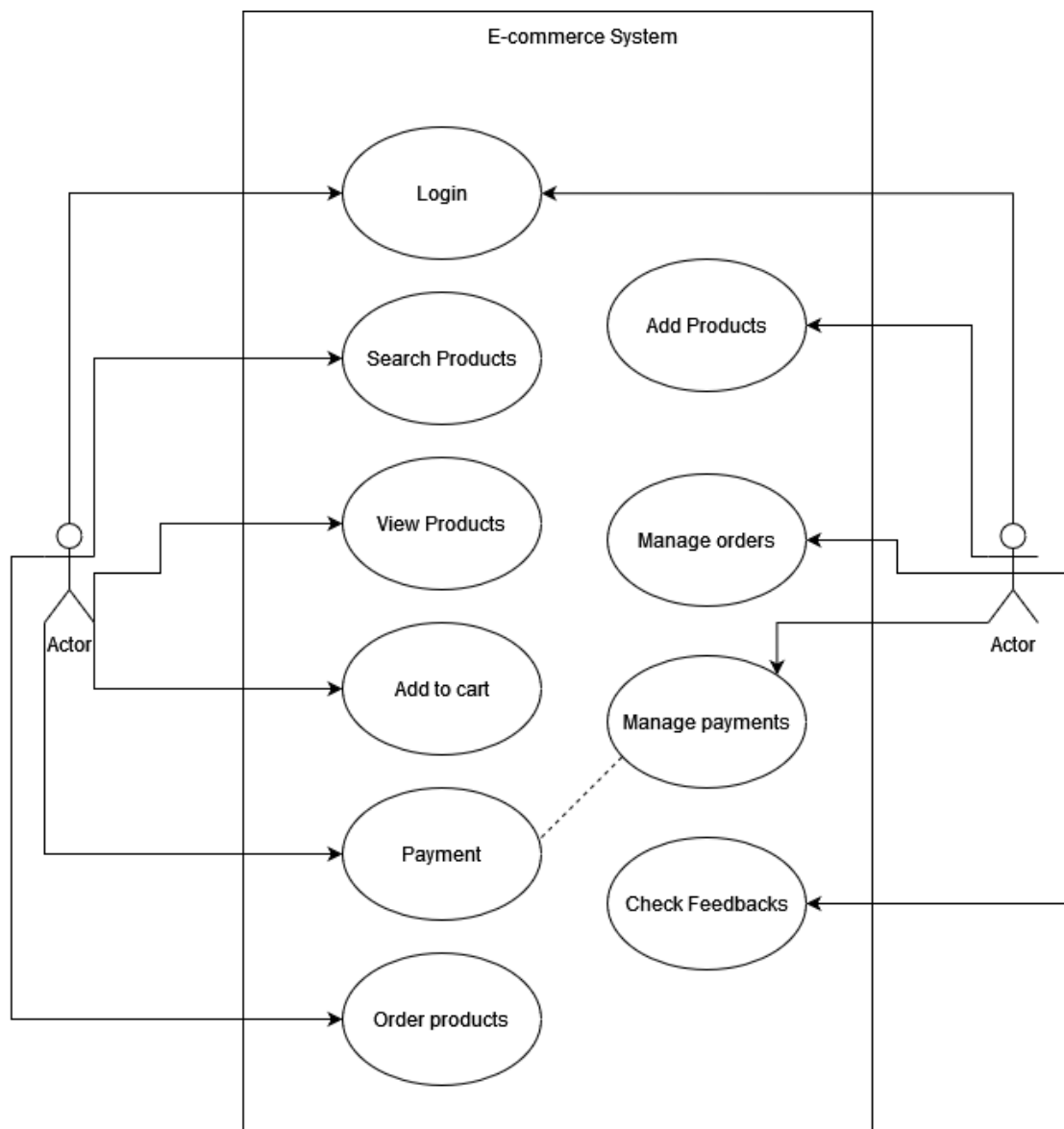


Figure 3.3.1: Use case Diagram of E-commerce system

In the above figure, attached diagram is known as Use-case diagram of any system. We have provided well designed use-case diagram of our e-commerce system by mentioning the working parts of users and admin alongside.

### 3.4 Entity Relation(E-R) Diagram

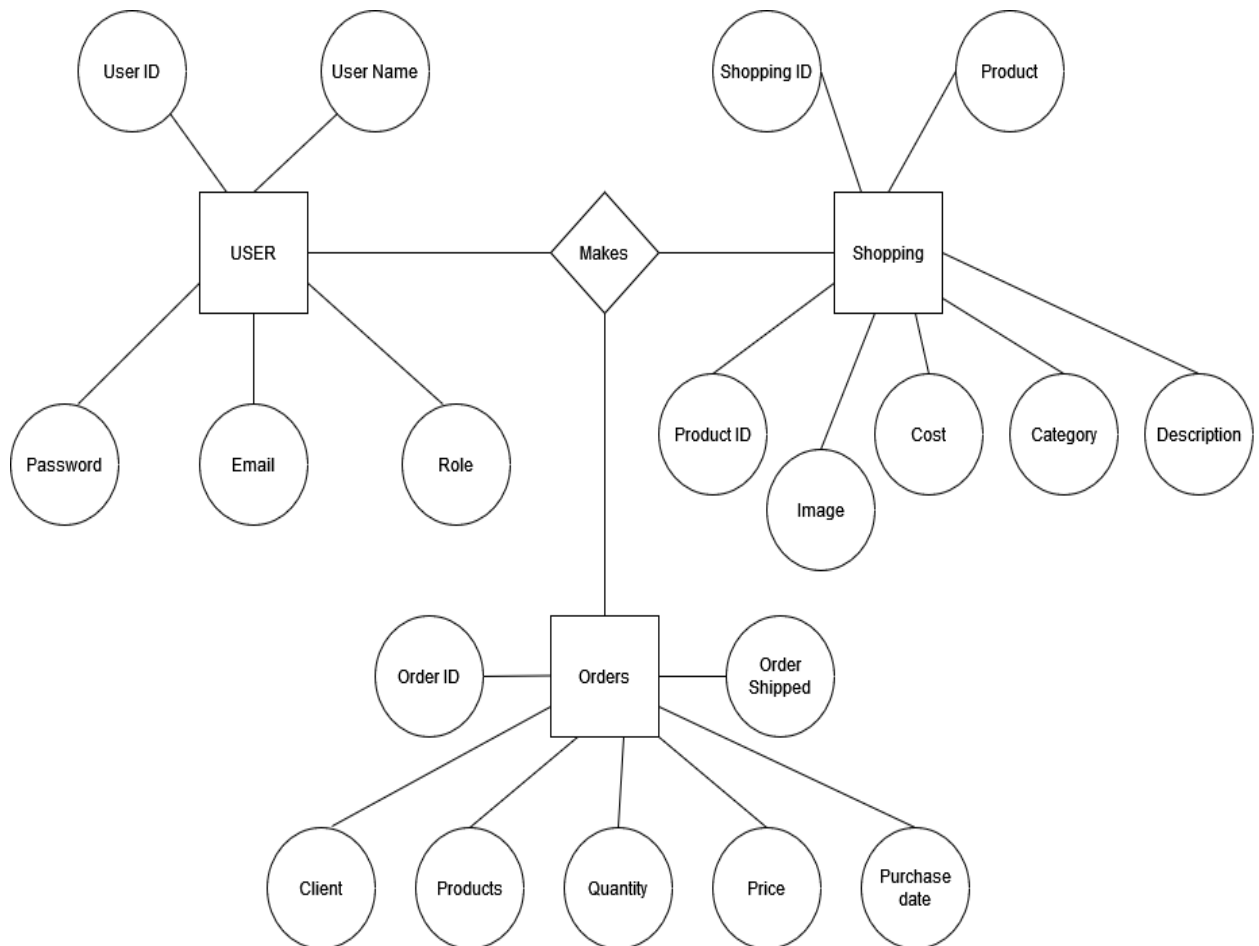


Figure 3.4.1: Entity Relation Diagram of our E-commerce website

Above figure represents the Entity Relation diagram of our project, E-commerce website platform. The diagram expresses each and every entity of our database and present the relations between every part of the working product. User account has user-name, user-id, password, email. So that, user can login using those details. In the other part, product details



of our platform noted in here. And the last part is order section, where the details of the ordered product and the details of the user who have ordered the product. Product name, image, quantity, price and purchased date is included in this section. The complete details of each entity-relationship had been described in this diagram.

### **3.5 Algorithm**

Step 1: At first you have to enter the website via link.

Step 2: To order something you have to search products according to keywords.

Step 3: After choosing products you can add some to the carts.

Step 4: From the cart you can go to check-out and buy that product.

Step 5: If you have an account, you can directly buy products. But if you don't, you have to create one.

Step 6: To register you will need contact details: phone no., address, e-mail.

Step 7: After registering you have to login. To login you have to use user name and password.

Step 8: Then from the product page user can add product to the cart.

Step 9: From the cart section user can go through the order and payment system to order product/s.

Step 10: After completing the order user can track order.

### **3.6 Conclusion**

In this section, we have discussed about the Dataflow diagram, Use-case diagram, E-R diagram, and step by step algorithm of our project. These diagrams represent the dataflow, use-case, and entity relationship respectively. These diagrams will clarify each part of our project.

## Chapter 4

### Design and Implementation

#### 4.1 Introduction

The implementation phase involves putting the project plan into action. It's here that the project manager will coordinate and direct project resources to meet the objectives of the project plan. As the project unfolds, it's the project manager's job to direct and manage each activity, every step of the way. Our project is implemented as the requirements. All the options proposed in the design is implemented here.

#### 4.2 Visual Representation of System

In this part of the book, the visual representations of the system will be discussed. That means this section will display the images of every page of the website developed by our group.

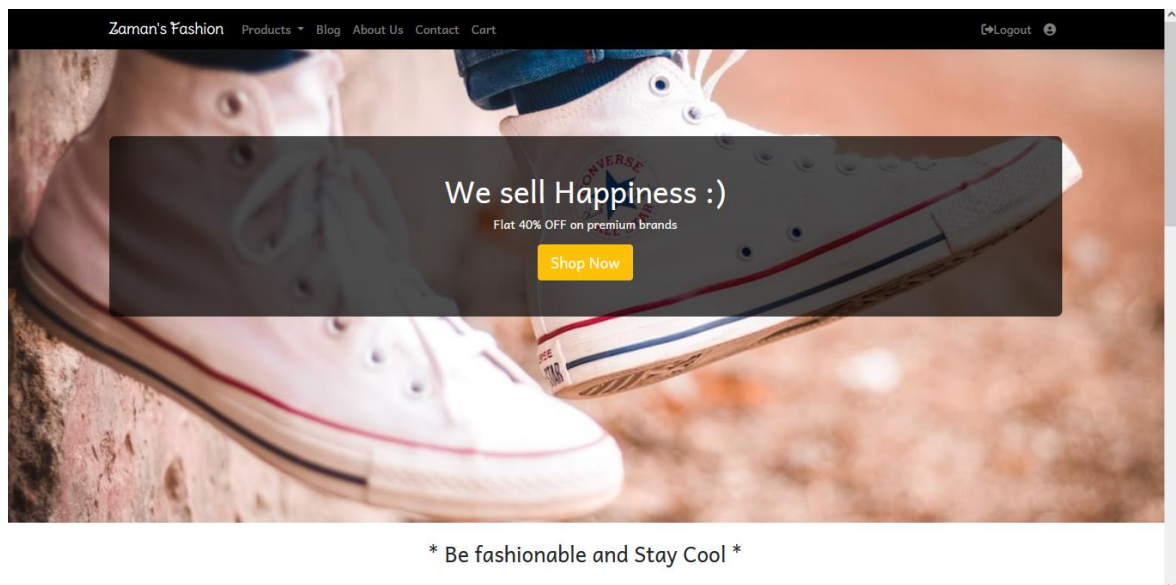


Figure 4.2.1: Home Page-I

The above screenshots describe the visual representation of the Home page of our system. At the top of the Home page there is a navigation bar in which there are products section, blog section, about section, contact section, cart section and the logo section. From the nav bar we can go to every page of the website by clicking on them. We can go to about page, contact page as well as to the blog page.

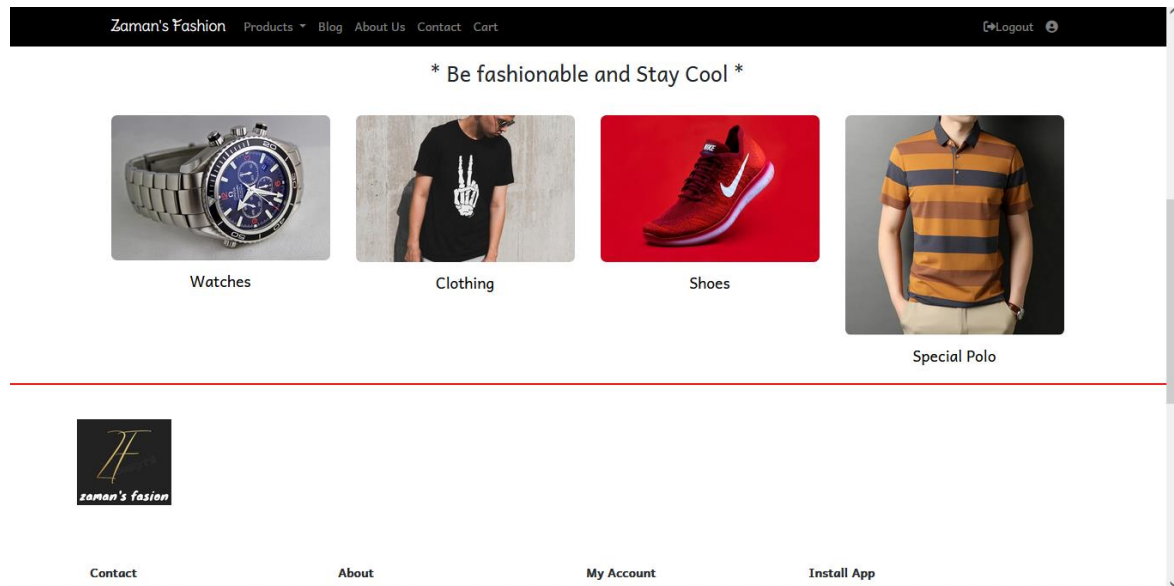


Figure 4.2.2: Home Page-II

Now, if we scroll down little-bit we can see the features products to sell. There are categorical products displayed that are for sell. And there is a banner where over the banner there is a button where if we click it will guide us to the product page from where we can buy products. These featured products are the overall category of the products that are displayed in the product page.

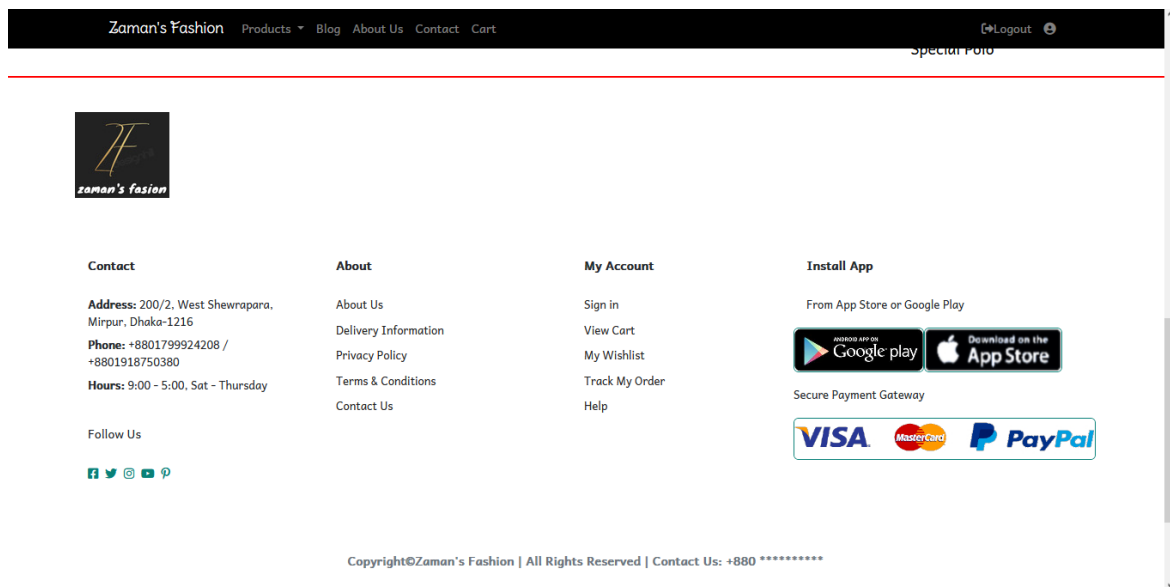


Figure 4.2.3: Home Page-III

At the end on the Home page we can see that there is a footer added. In that footer, every detail of the shop is given. Also, there is given the links of the pages we can visit through our website. Also, there are the details of the online account handles are provided with the proper address of the physical shop. Payment gateways are also shown in the footer section.

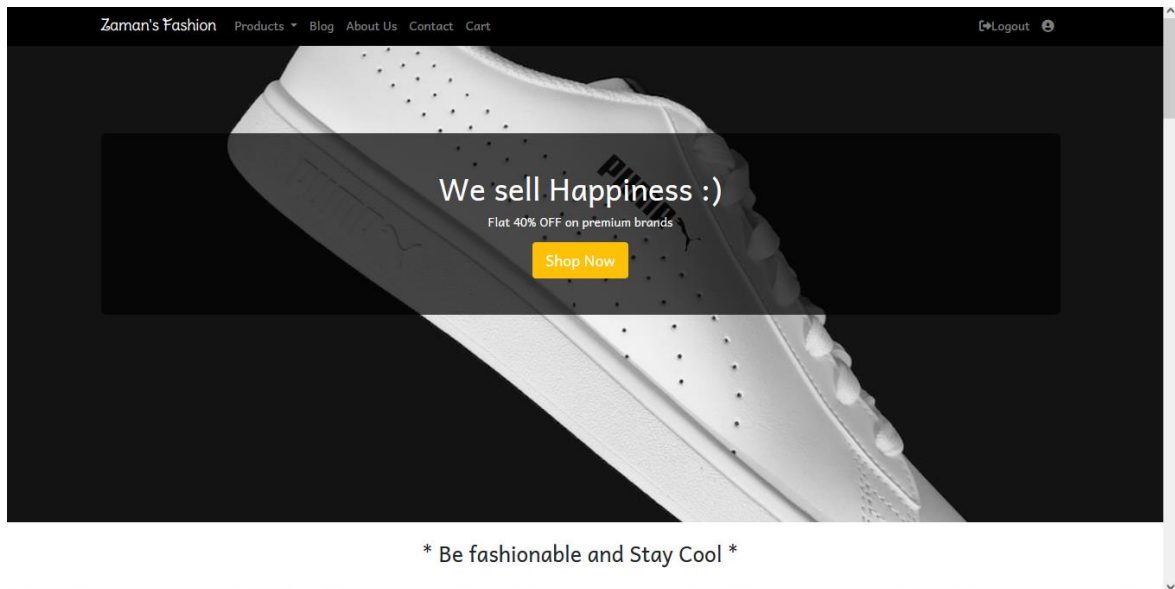


Figure 4.2.4: Blog page-I

These screenshots represent the blog page of the website where there is various blog are linked for clothing related knowledge. Also, from the blog page we can jump into the product page by clicking on the “Shop Now” button displayed on the banner.

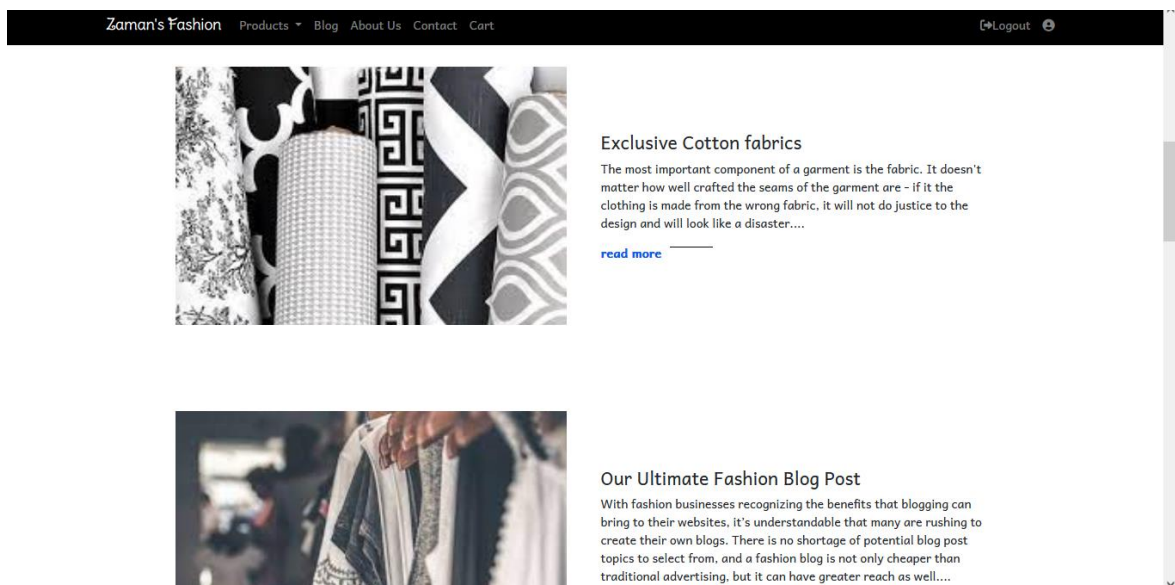


Figure 4.2.5: Blog page-II

From this page customers can view the blogs written for the knowledge of the cloths and fabrics. And also, they can gather some knowledge about the sewing process of the cloths at the industrial level.

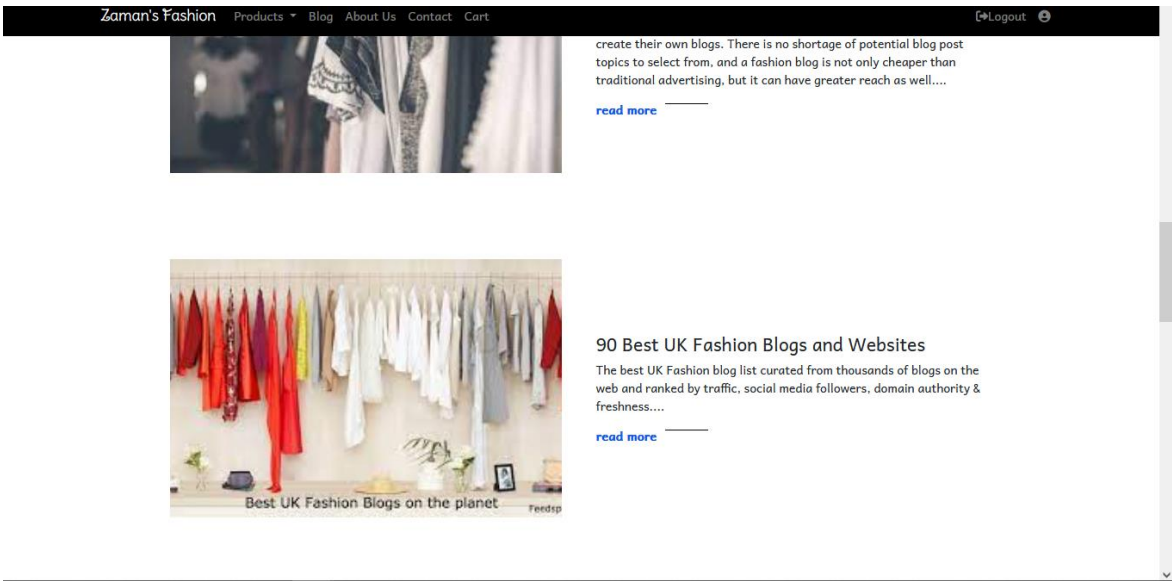


Figure 4.2.6: Blog page-III

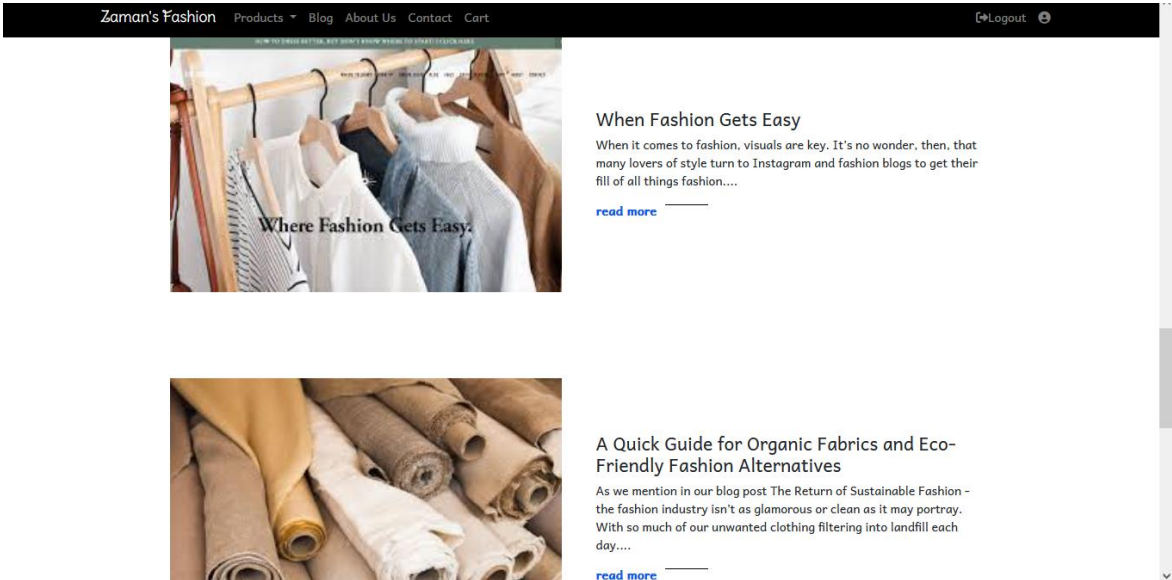


Figure 4.2.7: Blog page-IV

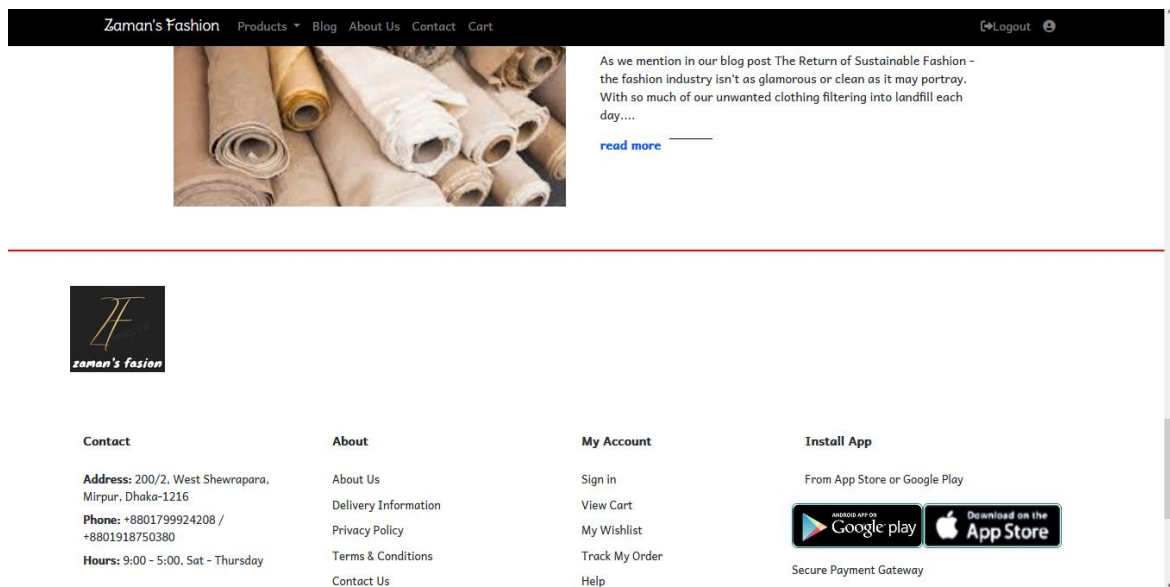


Figure 4.2.8: Blog page-V

And at the end of the blog page there is the regular footer as always, where the details of the website shop is provided with proper addresses and contact numbers.

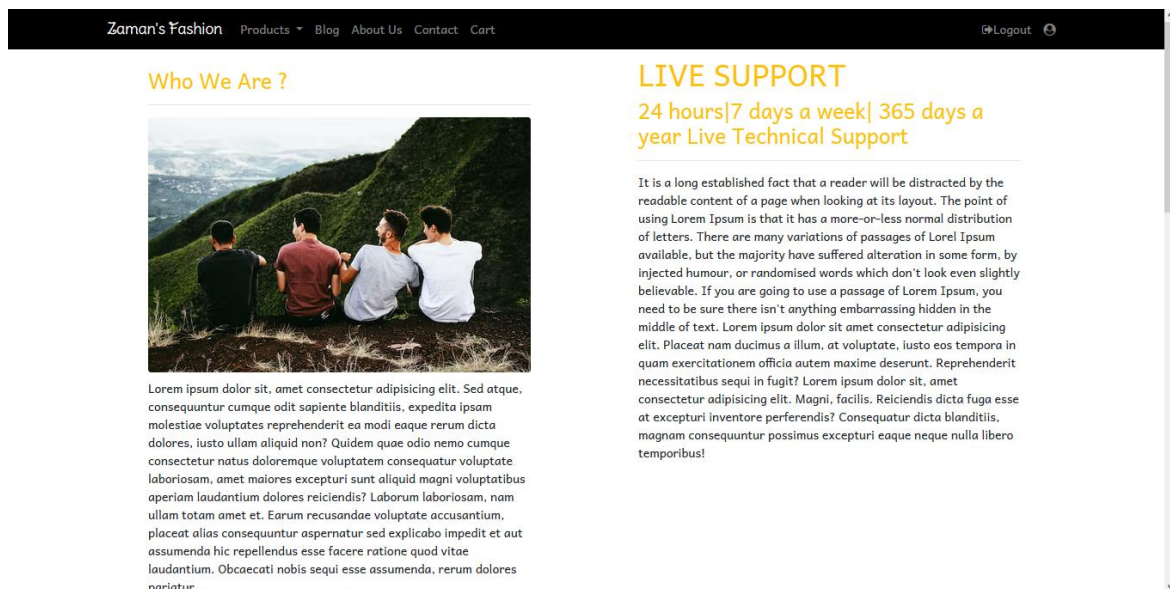


Figure 4.2.9: About Us page-I

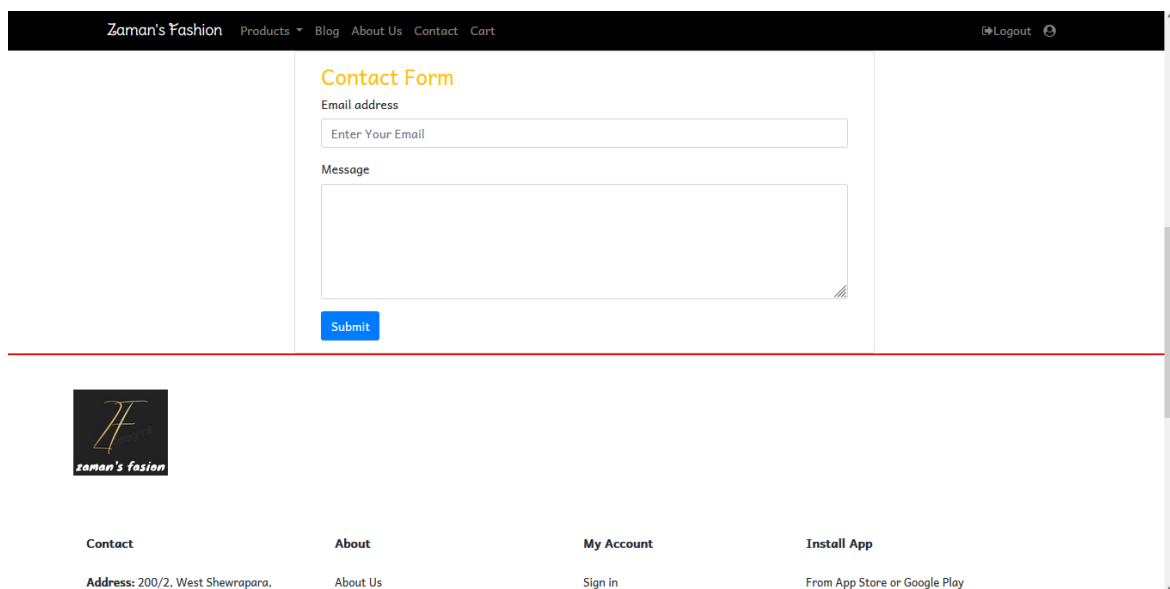


Figure 4.2.10: About Us page-II

This page describes the details of our website. What is the purpose of this platform and what is the goal of the developer are explained in this section of the website. There is a form at the middle of the page using which customers can ask direct questions to the developer. And as always there is the footer added at the end of the page.



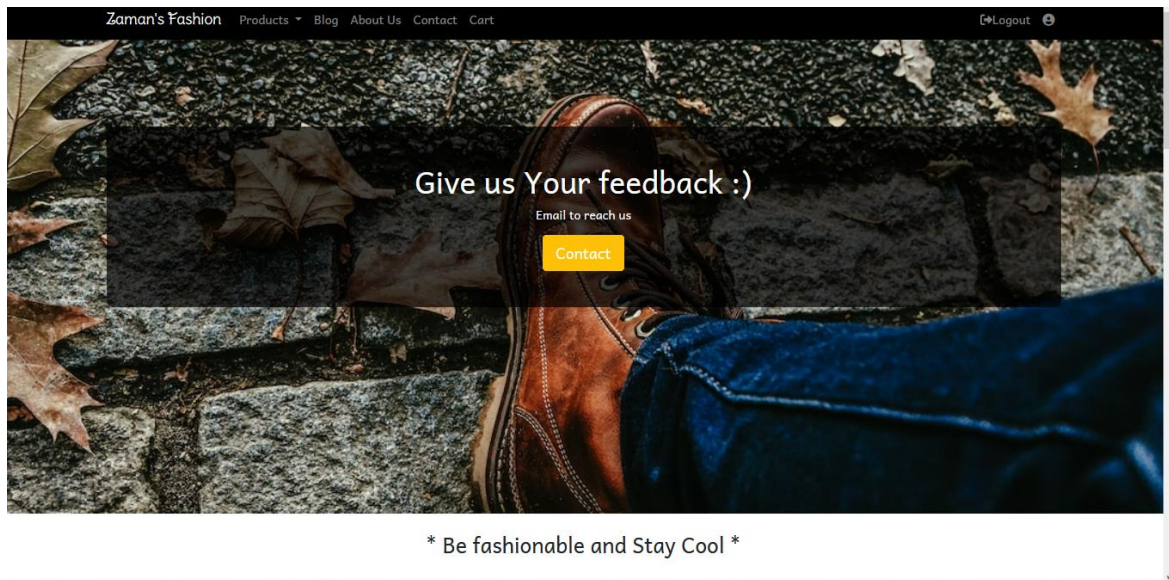


Figure 4.2.11: Contact page-I

In this page of the website shows the contact page. From this page customer can give feedbacks to the admin of the website. When customer click on the “Contact” button over the banner it will take him/her to the feedback section. From where customer can send any kind of messages through email by filling-up a simple form.

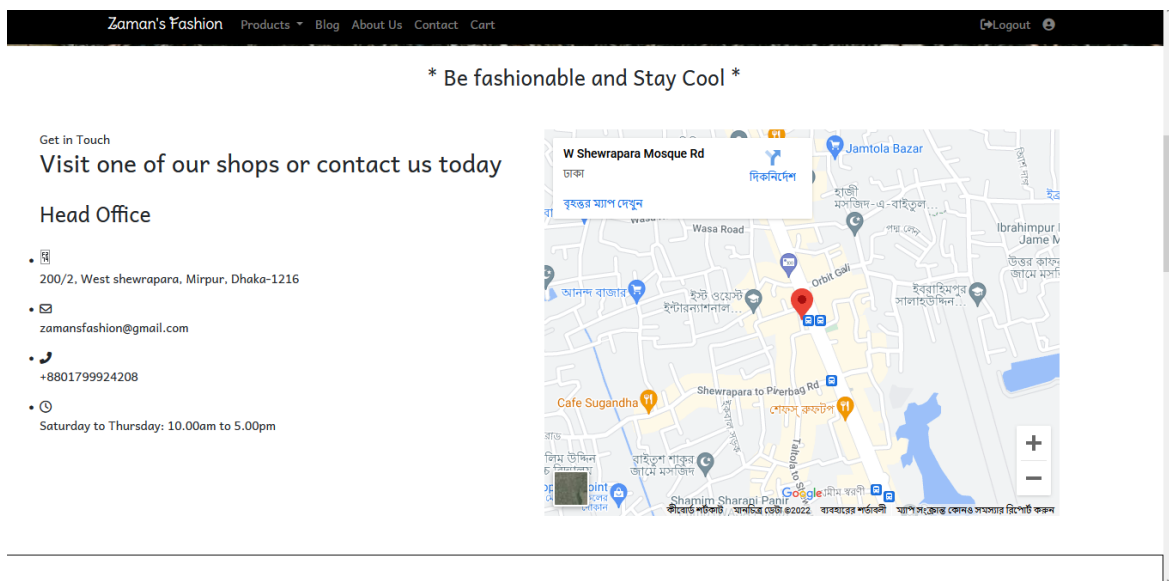


Figure 4.2.12: Contact page-II

This section of the contact page shows the address and contact details of the website customer care service and also shows the map location alongside the details.

The screenshot displays the 'Contact' page of Zaman's Fashion. At the top, a navigation bar includes the site name and links to Products, Blog, About Us, Contact, and Cart. A 'Logout' link is also present. The main heading reads 'We would Love to hear from you'. Below this is a form with four input fields: 'Your Name', 'E-mail', 'Subject', and 'Message'. A 'Submit' button is located at the bottom of the form. To the right of the form, there are three identical contact cards for 'Ferdous Wahid', Senior Marketing Manager. Each card includes a profile picture, name, title, phone number (+88017\*\*\*\*\*), and email address (wahid@example.com).

Figure 4.2.13: Contact page-III

From the above section of the page customer can send messages through email by filling-up the simple form and then click the “Submit” button to submit the feedback.

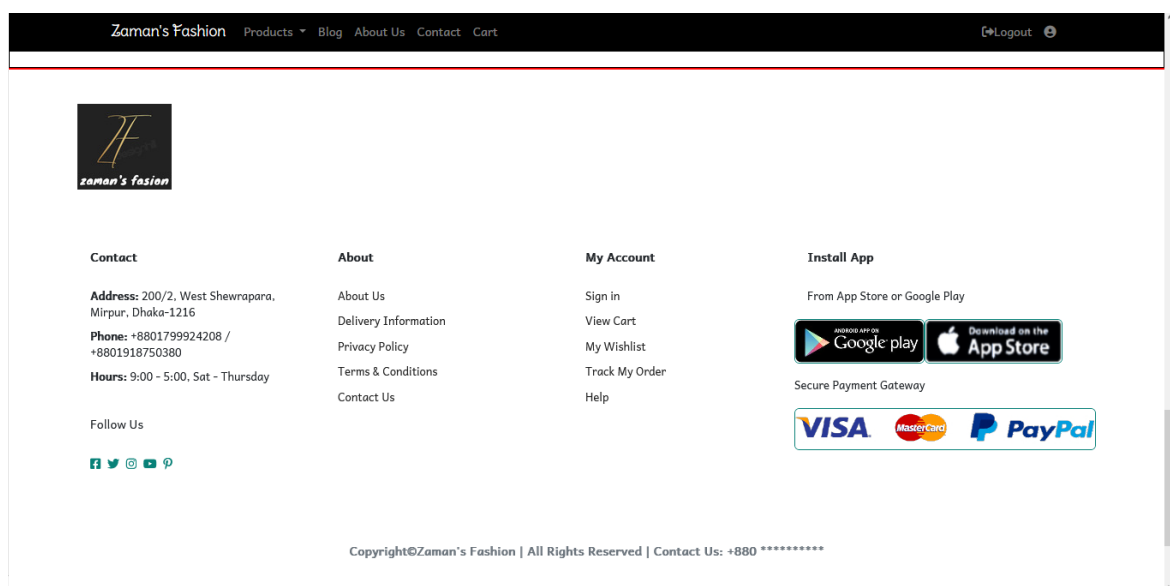


Figure 4.2.14: Contact page-IV

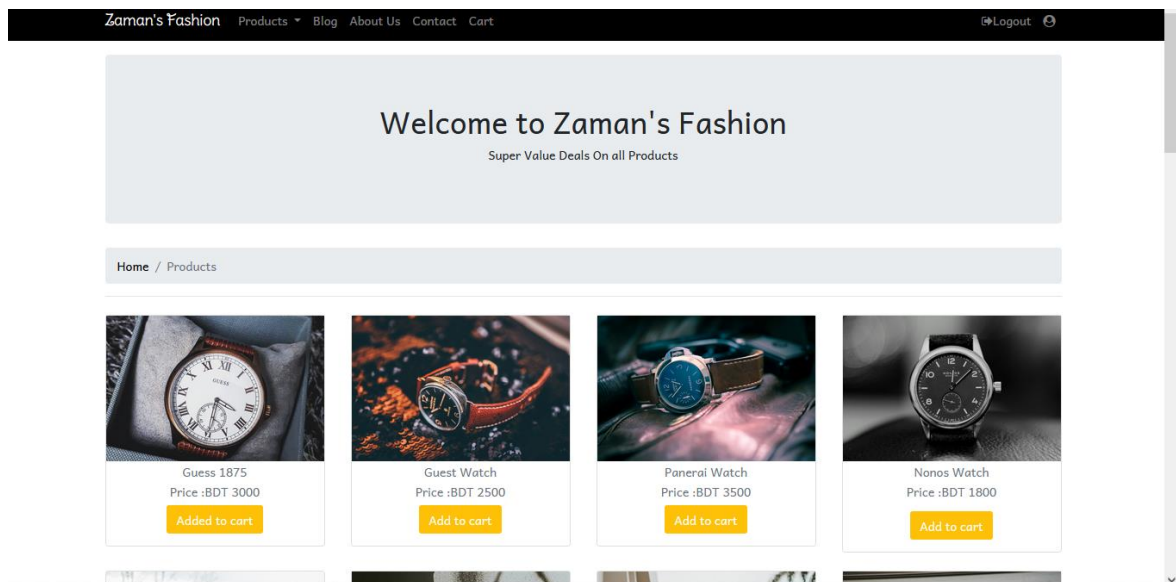


Figure 4.2.15: Product page-I

In this page, different category of products are featured. There is a drop-down bar in the nav-bar named products from which customers can go to the desired category of the product.

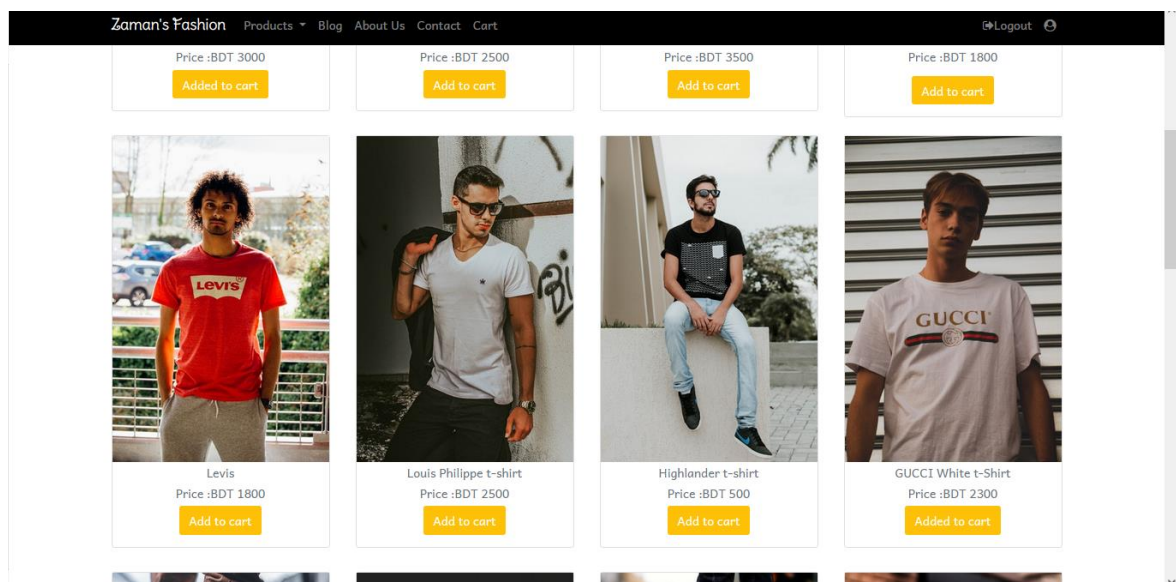


Figure 4.2.16: Product page-II

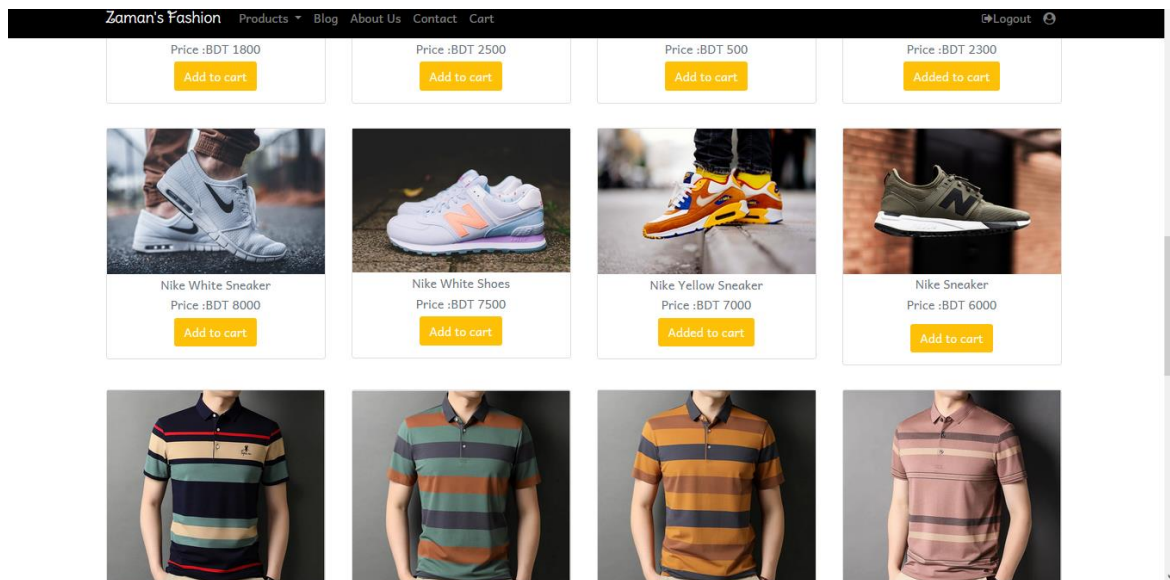


Figure 4.2.17: Product page-III

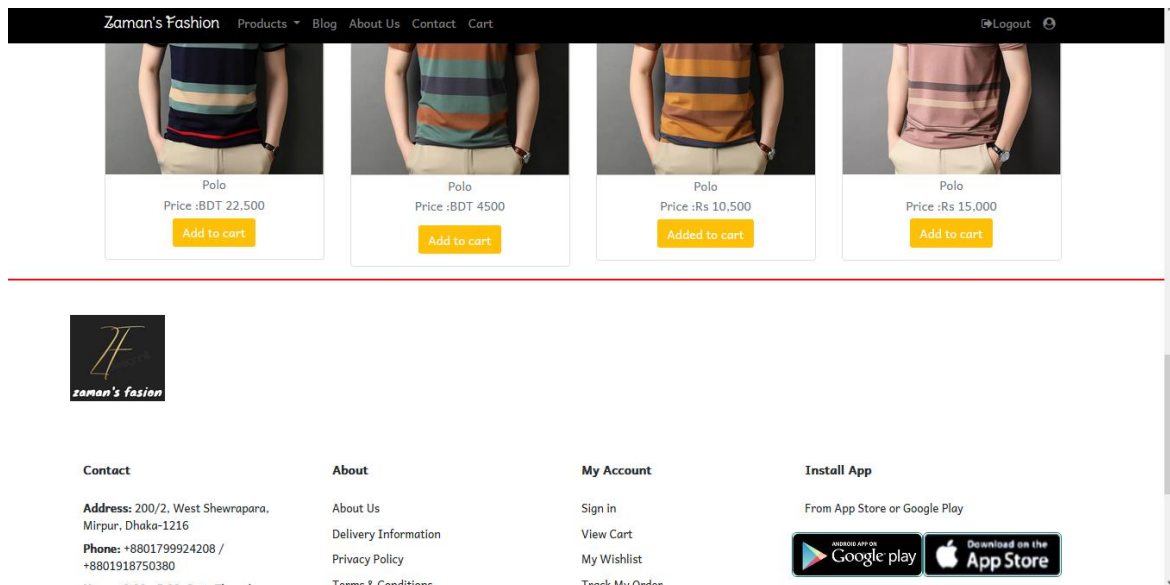


Figure 4.2.18: Product page-IV

At the end of the page there is the footer as always displayed. From the product page customer can order products by adding them into the cart and then confirm order from the cart page.

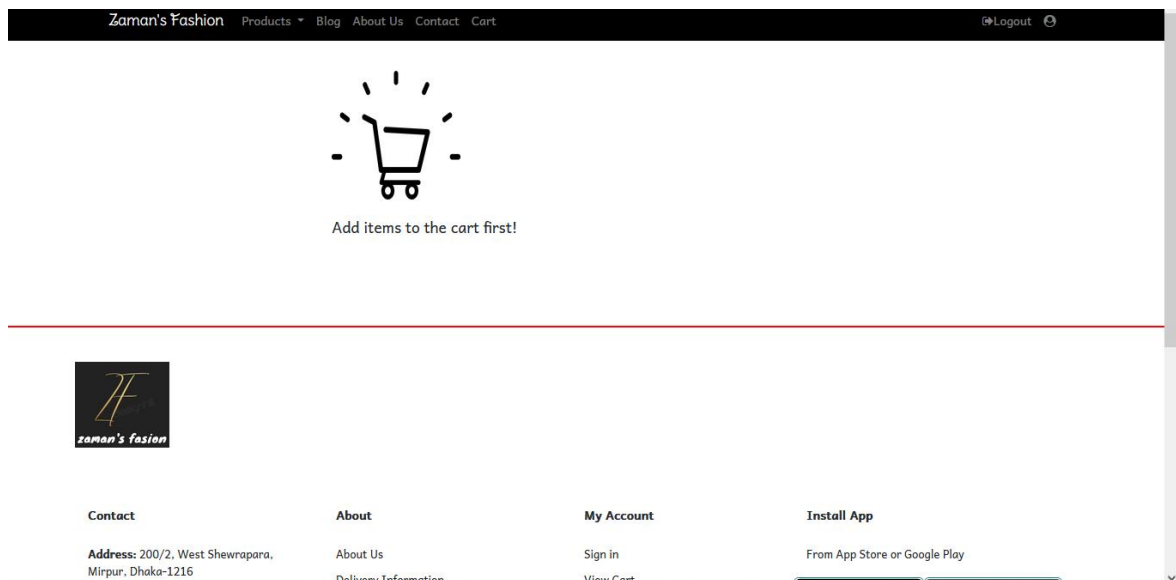


Figure 4.2.19: Cart page-I

This page is the cart page where the added products will be shown and customers can confirm their order from this page.

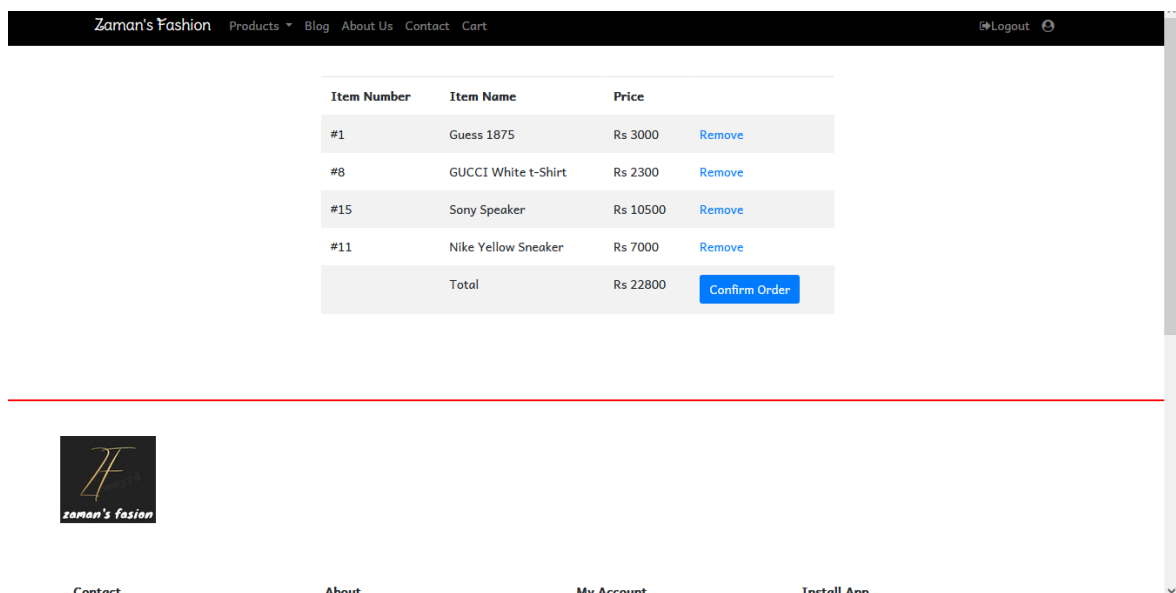


Figure 4.2.20: Cart page-II

After adding products to the cart, the cart will show the sum of the price of the added products as the total of orders.

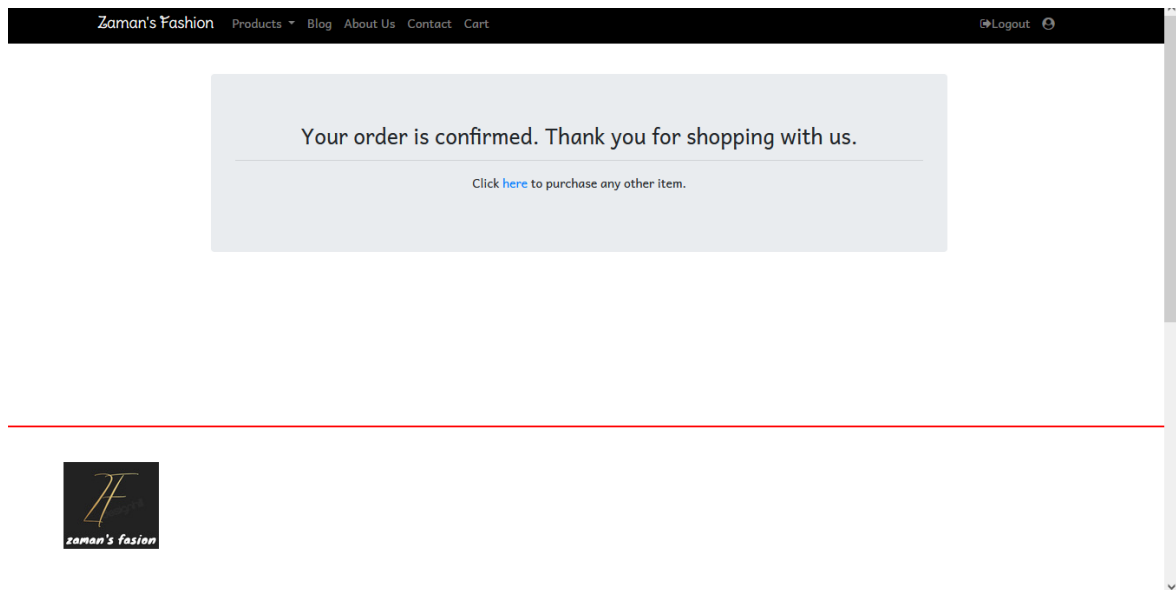


Figure 4.2.21: Cart page-III

After confirming the order there will be a pop-up message which is confirming that the order is confirmed and the shipping process has been started.



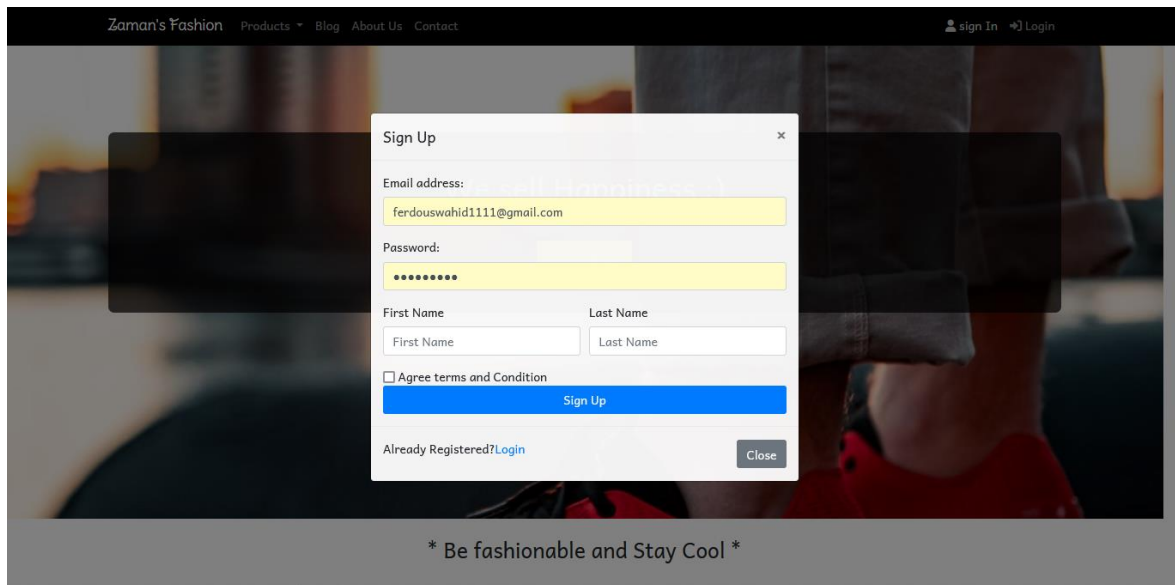


Figure 4.2.22: Signup Page

From the signup page customer can register a account so that he/she can walk through the rest of the process of ordering.

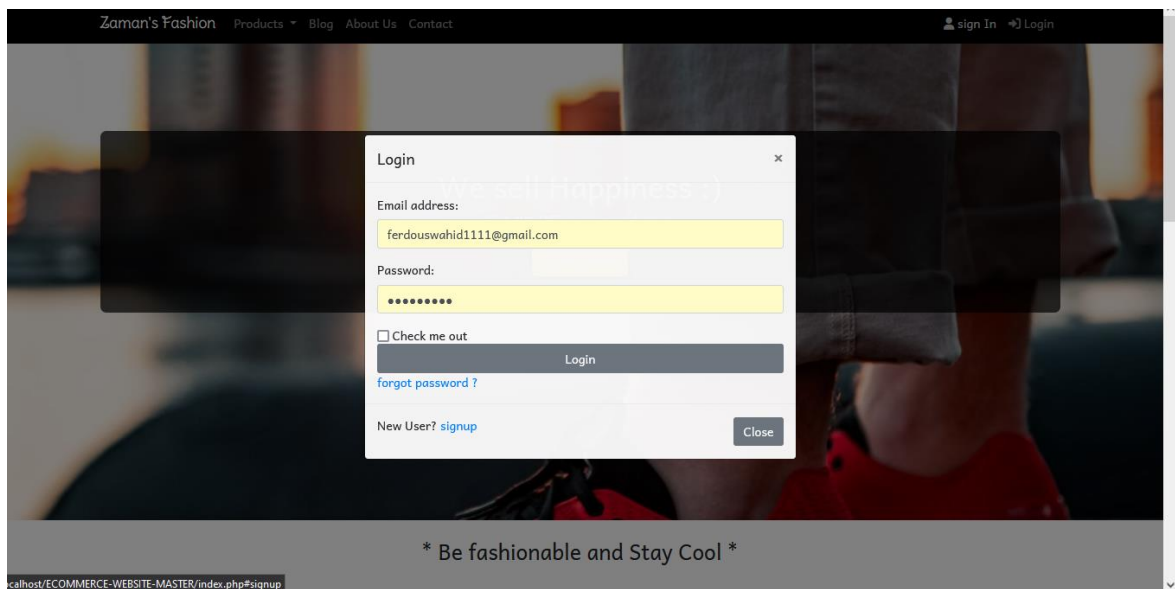


Figure 4.2.23: Login Page

After signup customer need to login. This is the login interface shown in figure 4.2.23.

### 4.3 Database

---

Database: ecommerce, Table: products, Purpose: Dumping data

id	name	price
1	Guess 1875	3000
2	Guest Watch	2500
3	Panera Watch	3500
4	Nonos Watch	1800
5	Levis	1800
6	louis philippe t-shirt	2500
7	Highlander t-shirt	500
8	GUCCI White t-Shirt	2300
9	Nike White Sneaker	8000
10	Nike White Shoes	7500
11	Nike Yellow Sneaker	7000
12	Nike Brown Sneaker	6000
13	Beats Headphone	22500
14	Zolo Headphone	4500
15	Sony Speaker	10500
16	Airpods	15000

Table 4.3.1: Product Table

---

Database: ecommerce, Table: users, Purpose: Dumping data

id	email id	first name	last name	phone	registration time	password
65	sharew5m123@gmail.com	reys	rudt	0	2019-03-18 19:46:33	e4f194cba29960e12d8b8f1bfedc972b
66	sqah234@gmail.com	werty	erty	0	2019-03-18 19:55:46	e10adc3949ba59abbe56e057f20f883e
67	sham1234@gmail.com	Sham	das	0	2019-03-19 13:37:46	e10adc3949ba59abbe56e057f20f883e
68	ferdouswahid1111@gmail.com	wahid	ferdous	0	2022-10-29 02:21:27	25f9e794323b453885f5181f1b624d0b
69				0	2022-11-01 00:21:45	d41d8cd98f00b204e9800998ecf8427e

Table 4.3.2: User details Table

These three tables define the database details of the system.



Database: ecommerce, Table: users\_products, Purpose: Dumping data

id	user id	item id	status
11	67	6	Confirmed
17	67	1	Confirmed
18	67	5	Confirmed
19	67	6	Confirmed
20	67	1	Confirmed
23	67	1	Confirmed
24	67	2	Confirmed
25	67	9	Confirmed
26	68	1	Confirmed
27	68	1	Confirmed
28	68	1	Confirmed
29	68	7	Confirmed
30	68	1	Confirmed
31	68	6	Confirmed
32	68	10	Confirmed
33	68	14	Confirmed
34	68	1	Confirmed
35	68	8	Confirmed
36	68	15	Confirmed
37	68	11	Confirmed

Table 4.3.3: User order details Table

## 4.4 Conclusion

In conclusion, we can see that there is a vast elaboration of html, CSS, Bootstrap, PHP languages to implement the code to get the desired output.

## **Chapter 5**

### **Conclusion & Future Work**

#### **5.1 Introduction**

This chapter describes the future scope and extensions for the project. There is still a huge scope of implementing something new and more to the project which can make it to the level of a commercial product. Our plan for this project to make it better in the future will be discussed in this chapter.

#### **5.2 Comparison**

There are significant differences between our project and the existing project. We had developed a responsive website which is an e-commerce selling platform where people can sell and buy products at the same time. On the other hand, existing platforms can't satisfy these requirements. But our developed platform can provide best of services to both seller and buyer at the same time.

#### **5.3 Future Work**

In future, we have a plan to optimize our website for the people of all over the world. We will develop the system as per the region of the customers. According to the customers taste we will upgrade the products categories and prices and also give offers on their festive season. It will be very useful for the customer of that region of the world to get attracted to our platform of selling and buying products and services.

#### **5.4 Conclusion**

We have successfully implemented the website with the help of various research papers and web portals and tools. We have been able to provide source code of our project as an attachment with the report. We have been successful in our attempt to take care of the needs of both the user as well as the administrator. Finally, we hope that this will go a long way in popularizing.