

MODERN E-COMMERCE WEBSITE

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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 “MODERN E-COMMERCE WEBSITE”, submitted by **MARUF HASAN MUNNA (181-15-1927)**, **MD HUMAYUN KABIR (181-15-2045)** and **SUNJIDUR RHAMAN NION BISWAS (181-15-1741)** 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 25 October.2021.

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DECLARATION

We hereby declare that, this project has been done by us under the supervision of Name, Designation, 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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ACKNOWLEDGEMENT

First, we hereby declare that, this project has been done by us under the supervision of **Mr. Ohidujjaman, Sr. 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.

First, we express our heartiest thanks and gratefulness to almighty God for His divine blessing makes us possible to complete the final year project/internship successfully.

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

ABSTRACT

Nowadays people want to shop from home. But in this case, finding out from which platform to buy cause a lot of suffering for people. So, we have to create an e-commerce website where people can order the product of their choice from home, and get it at home. The customer can get his product through payment or cash on delivery. Our website is user-friendly so people can easily understand it and use it very easily. We will provide the highest level of customer service on our platform and also providing fast delivery to customers. If there is any problem after delivery of the ordered product, the customer can change it again. In this case, there is no need to pay the delivery charge again. We will integrate sslcommerz payment gateway so that user can pay and get products without any hassle. Not only that but also, we will integrate chat bot that will help customers to understand our site functionalities and we will also create real-time chat messenger. With our chat messenger customers can directly contact with our admin in real time.

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Chapter 1:

Introduction

1.1 Project Overview

Web design is a field of study that offers many skills and disciplines for the creation and upkeep of various types of websites. Web graphics design, interface design, writing, user experience design, and SEO are just a few of the numerous branches of web design. The word web design is commonly used to describe the front-end design process of a website, which includes authoring mark-up. In the broader spectrum of web development, web design and web engineering overlap to some extent. Web development, on the other hand, explains how to create an internet website. Web development can range from simple text-only static pages to complex web-based online applications. Web development encompasses a broader range of responsibilities such as web engineering, web design, web content creation, server-side programming, etc Web development is a term used by web developers to describe the non-design components of constructing websites, such as authoring mark-up and coding. Based on the web we want to make a Trustworthy and secure eCommerce platform. Here people can purchase any product they need from home.

1.2 Motivation

In simple words, motivation is the process of setting your life goal. Many of us can't tell the difference between motivation and inspiration. I often confuse inspiration with motivation I hope we can understand the meaning of these two words by giving a simple example. Suppose you are out on a very cold winter night. Now you want to light a fire to save yourself from the onset of winter. Now if you want to light a fire, you must have a piece of wood as fuel. Finally, you lit a

fire with wood and warmed yourself. Your goal here is to survive the winter. Fire is your motivation that helps you stay warm and ultimately the pieces of wood are your inspiration. So basically, Motivation is a cause or condition that motivates a person to do something or to want to do something. The most important thing in our life is time. Many times in life we waste our time in the market. At that time we could do a lot of important work. Now technology has improved as well as our communication system has improved. Now people don't have to go out of the house for all the work. People can do a lot of work sitting at home. This saves a lot of time. The thought of creating e-commerce came to my mind from this thought. By creating -commerce we can easily deliver goods to those who are far away from the market in the impenetrable area of the village.

1.3 Objective

The major goal of people is to be able to buy the domestic and foreign products of their choice at the right price from home. It will save a lot of time and effort because everyone is so busy.

A brief Objective of our project:

- Users can place orders for their products in the order section based on their interests.
- To create a framework that automates the procedures and allows for flexible configuration of the Online Product Ordering System based on the needs of the client.
- Design and construct an online ordering system that will allow all users to manage their orders more efficiently.
- To create a completely functional and user-friendly system for managing an online store. Develop the system for online use, for example. People will appreciate it if you save them time and effort. Create a system that must meet customer service requirements. To create a system that can handle a huge number of orders at the same time.
- Creating a secure and Trustworthy business environment.

1.4 Limitations and Scope

Bangladesh is a developing country. There are some underdeveloped areas as well as some developed areas. Not all kinds of things are available in all the markets of our country. There are so many things we have to go far and wide to buy. It is a waste of our time as it is a waste of money. If we have an e-commerce company in our country, then people from all over the country can easily buy products at home. This is a sign of coming for an e-commerce organization. On the other hand, the transportation system of our country is not very good so the e-commerce company has to take a lot of risks to deliver the product to all parts of the country. So, in the end we can say that there are advantages as well as disadvantages for a new e-commerce organization. All the developed countries of the world now rely on e-commerce. So, we should forget the difficulty and think of the development of the country and build such a platform.

1.5 Possibility of a Future Career

This website's structure has a lot of room for improvement. This effort is simply the beginning of the project's structure. If more components are needed, we can add them later. More use cases for diverse reasons can be characterized in the future. The backend portion of the task has been completed by the other group. They will also make some essential improvements.

Chapter 02

Review Literature (Related Works)

2.1 Existing System and Related Works

Amazon, Flikart, Ebay India, Best Buy, Home Depot, and a slew of other e-commerce sites may be found online all over the world. They are also known as e-business or electronic business, and they basically involve the selling and purchase of services and goods over an electronic medium, such as the internet, as well as data and financial transfers between two or more parties. This is what everyone is familiar with when it comes to purchasing online. When someone sells something online, they want to be sure they know what they're doing and who they're selling to. He can create a long-term relationship if he pleases his customer. So, if you're running an online business, one of the most vital things to attract satisfied customers is to have a well-designed website. With our ecommerce system, we can attempt to handle our problem in a way that is more convenient for institutions. There will be a record in websites on our project where we can easily find all kinds of necessary things such as gadgets, accessories, clothes, etc. It is also beneficial to any type of seller because he or she can easily sell their products through us. So, it differs from other ecommerce sites due to its live contact system with admin, as well as the fact that it is simpler to use and there is a helping bot for customers so that anyone can easily use our website.

2.2 The chapter's summary

This is an eCommerce system in which there are a large number of websites on the online sourcing system. There are some websites that are comparable to this sort of eCommerce, but it stands out because of the user-friendliness, and secure payment system, and live contact with admin, as well as the fact that it is easier to use and there is also an automatic bot available for help in this website.

We use python and django in this project, and SQLite for the database. SQLite is a database administration contained in a c library. Its use as an embedded database in application software such as web browsers for client storage. So, in this project, we may try to solve our buy and sell product problems, as well as a variety of other things to make it easier to use these ecommerce sites, which are also quite useful to both customers and sellers. This ecommerce solution addresses our issue by making it easy for institutions to do business. We take advantage of Django is a free and open-source web framework based on Python. Its main purpose is to make it easier to create complicated, database-driven websites. This also includes the ability to create, read, update, and delete administratively, as well as the ability to use Python. This is a high-level programming language that can be used for a variety of applications. Python is a programming language with techniques and an object-oriented approach aimed at assisting programmers in writing clear, logical code for both small and large-scale projects.

CHAPTER 03

Specification Required & Proposed Model

3.1 Need for software

To create this website, the following software has been used:

Design: Html, JavaScript, CSS.

Programming language: Django, Python.

Database: Sqlite3

Package need: channels, sslcommerz, socket

System Operating: Windows.

Device Name: Computer.

Running This Website: laptop, Mobile, Computer.

3.2 Requirements Hardware

Installed Ram: 4GB.

Processor: intel i3.

Hardware: 512GB.

3.3 Buyer Flow Chart

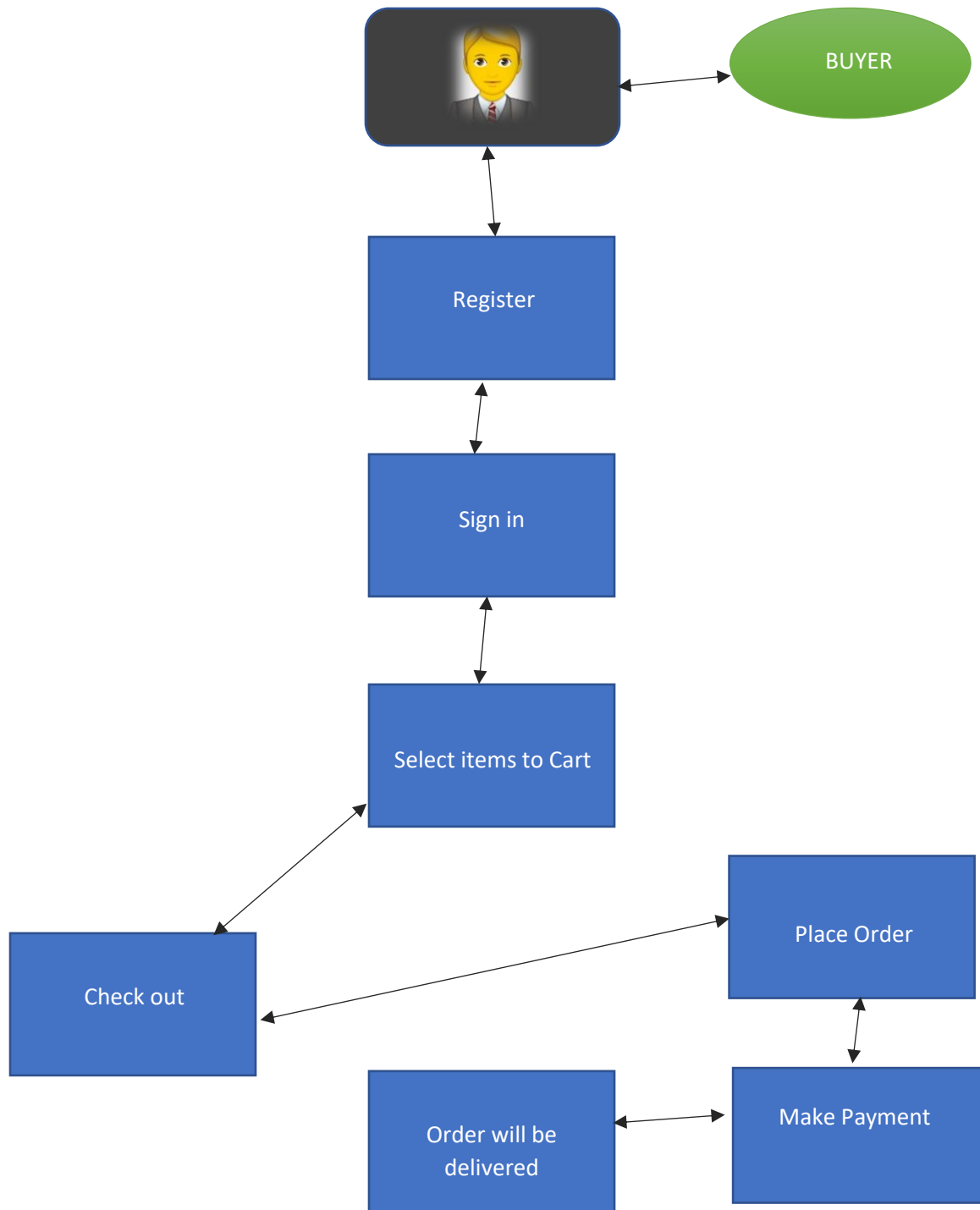


Figure: Buyer Flow Chart

3.4 ER Diagram in our site

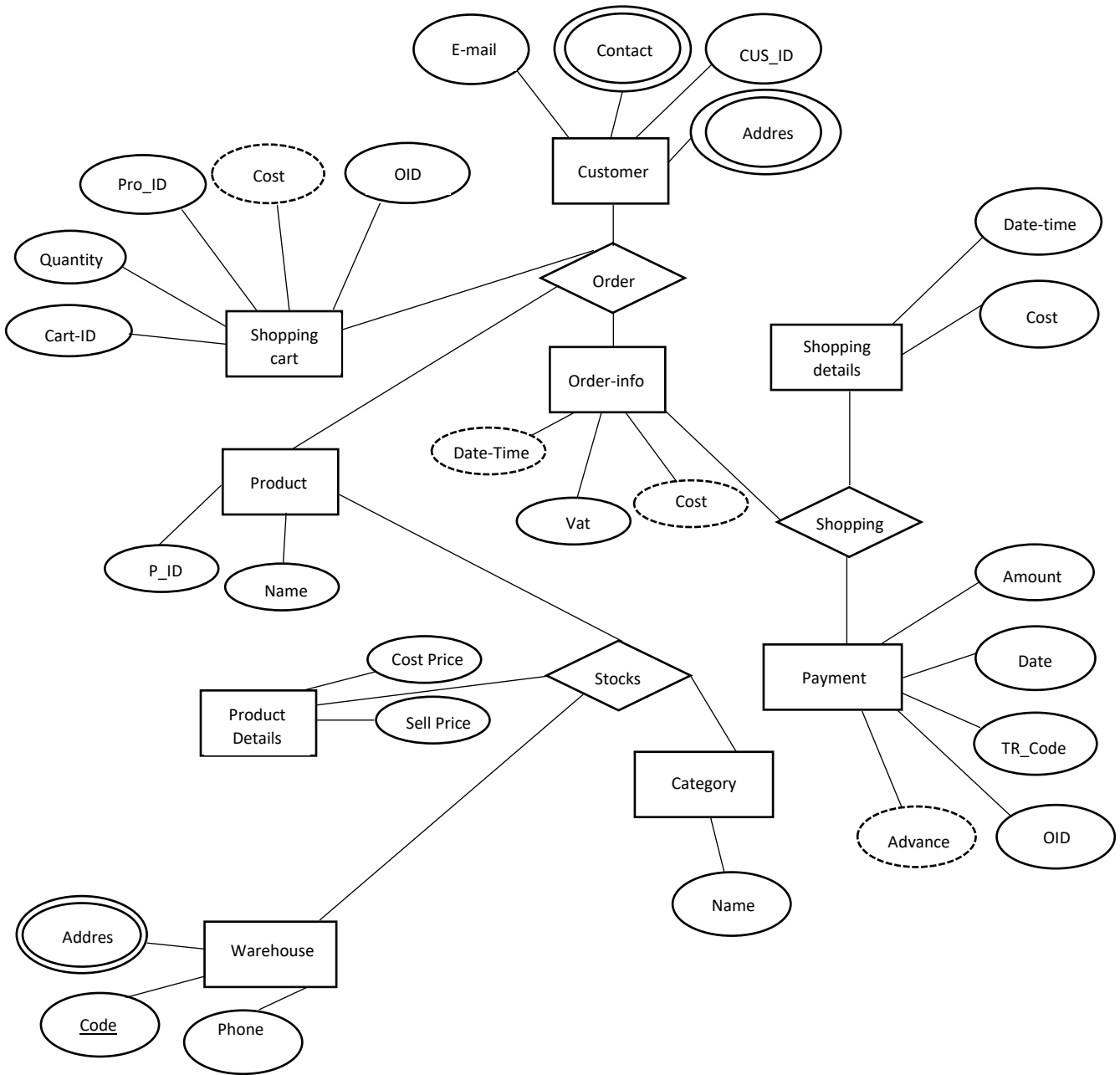


Figure: Diagram in our site

3.5 Segmentation of Customer

Now a day E-commerce website are very attractive to customers. So, we Use segmentation of customer our E-commerce Website is primarily designed to sell a variety of products and Our website is interestingly designed and designed with customer in mind, it is very use friendly so customer can use it very easily. Our website is divided into different product for children and adults and different products for boy and girl.

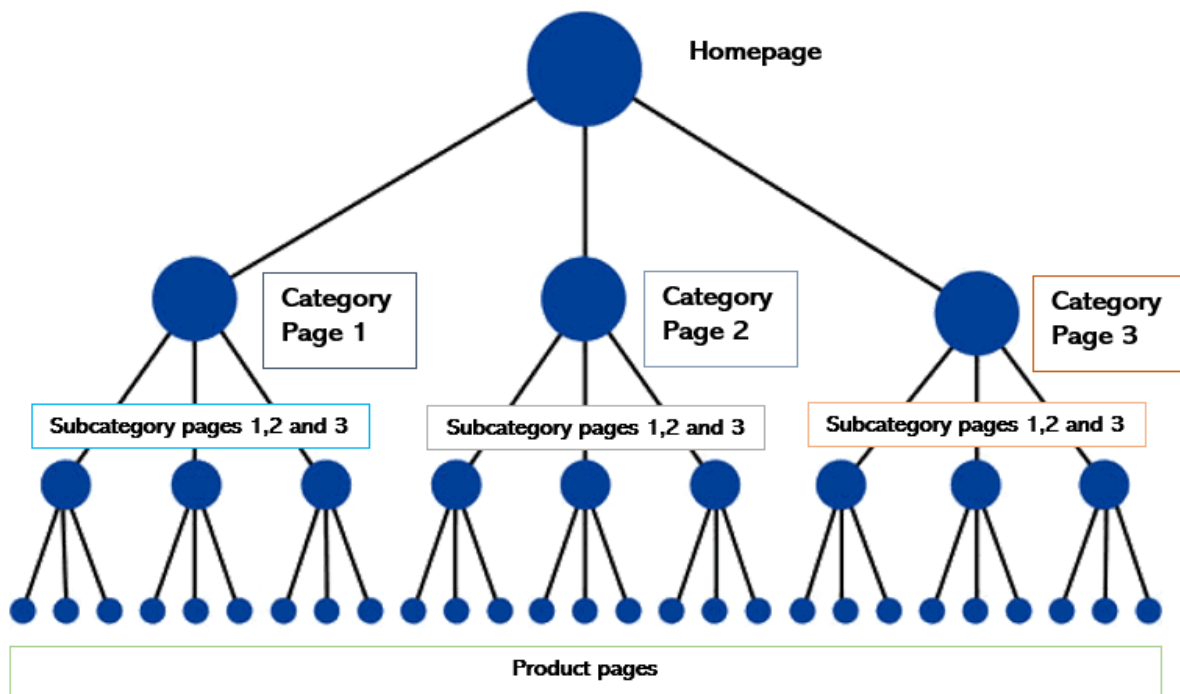


Figure: Segmentation of Customers

Retail ecommerce sales in 2017 was 278727, 2018 was 309054 and thus 2024 will be 476462. So, that we will say future prediction of sales will better.

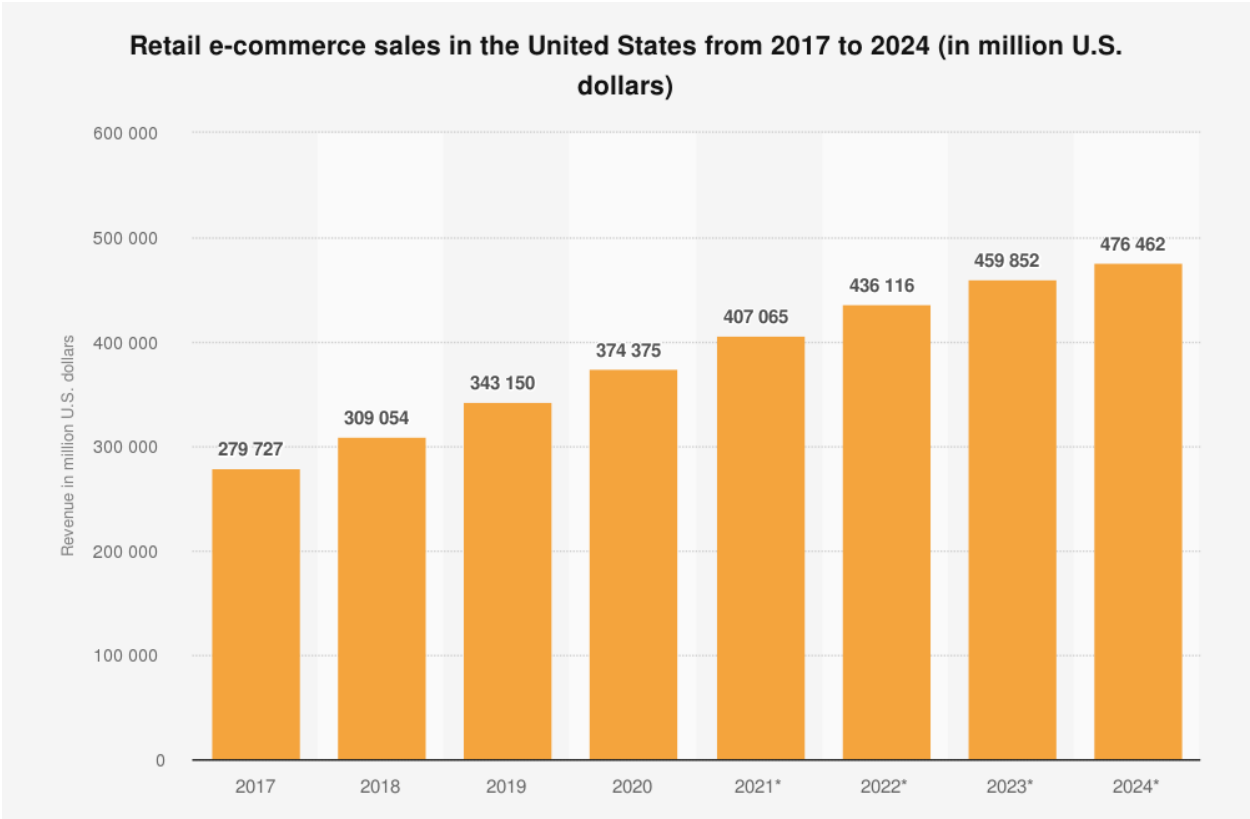


Figure : Global retail ecommerce sales

Bangladesh has seen an increase in online transactions in recent years. As the standard of living rises, so does the standard of living. As a result, buying habits have shifted dramatically. The e-commerce business in Bangladesh began in the late 1990s, but it was unable to expand quickly. Banking, logistics, communications, and payment systems have all improved throughout time, providing opportunities for the e-business industry to grow. The online payment system is now used by a variety of industries, including banking. The cash-on-delivery system has become more accessible as consumers have access to credit, debit card, and digital wallet services. However, the percentage of e-commerce selling gradually increased. we can see that below.

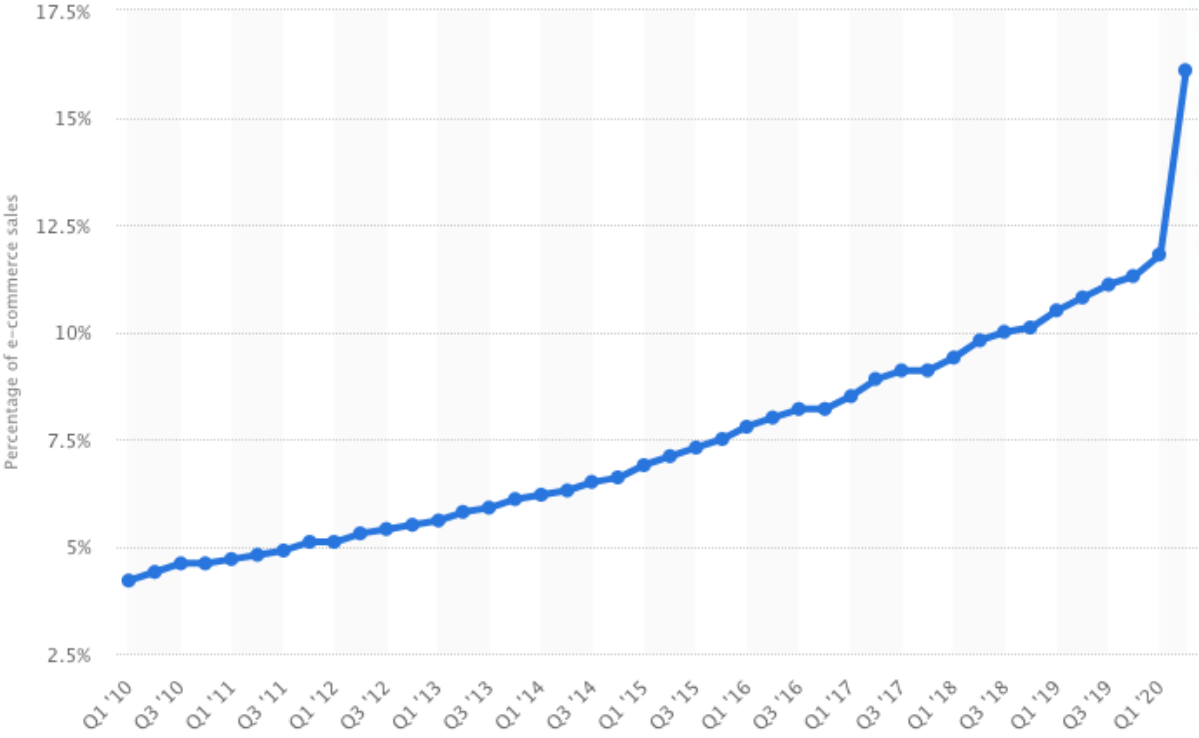


Figure 4: Growth statistics of E-commerce

Chapter 4

Discussion of Experiments

4.1 Introduction

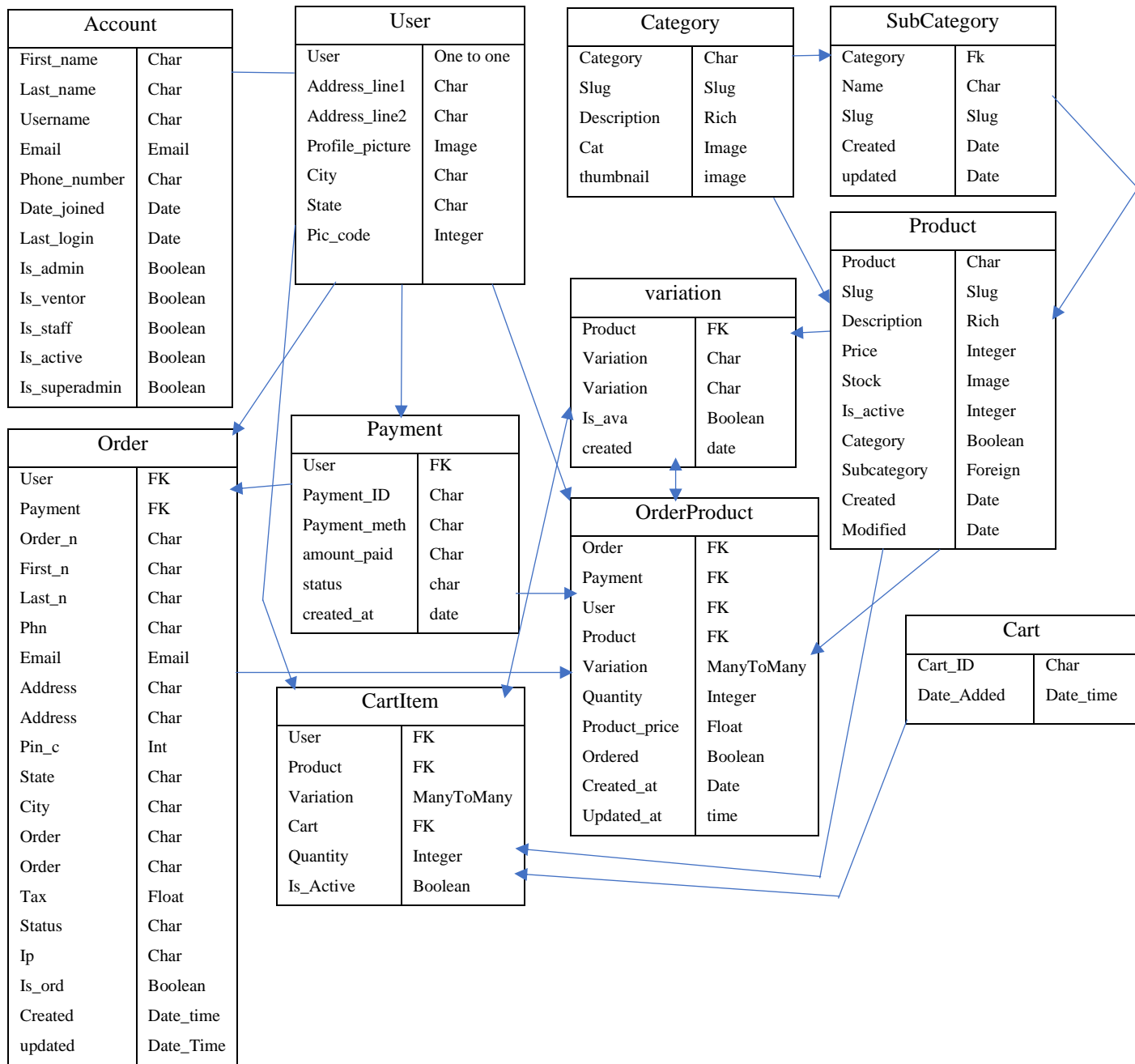
We are attempting to create an ecommerce platform where users can do real-world purchases online. Basically, our website is a place where you may buy any products. Consumers can quickly order, pay instant and purchase their necessary things and get products at home. However, for anyone who wishes to buy foreign or any kind of product that is not available in the local market then it is possible to buy from our marketplace.

4.2 Front-End Design

We use html, css, javaScript, and jQuery for front-end design. HTML stands for hypertext markup language, and we use it in our project to define the content structure and meaning by defining headings, paragraphs, and images. CSS stands for Cascading Style Sheets, and it is a presentation language used to style information using fronts and colors. Html and CSS are self-contained and should be kept that way. CSS should not be written inside an html document in our project, and vice versa. CSS will always represent the fronts and colors, but HTML will always represent the content. Elements, tags, and attributes are three common HTML terms that we should start with. We use javascript, a multi-paradigm language that supports event-driven, function-driven, and imperative programming styles. It also has application programming interfaces (APIs) for working with text, dates, regular expressions, standard data structures, and the document object model, but it does not include any input output (O/I), such as network, storage, and graphics facilities that the host environment provides (APIS). Javascript is also integrated in a variety of application frameworks, such as electron and Corodova, which necessitate the use of javascript. On our website, we use havascript for the purpose of jquery.

4.3 Back-End Implementation

This project is a web-based E-commerce solution with consumer segmentation. In this project, we use Python, Django, and SQLite for the database. SQLite is a c library that contains a database management system. This isn't a database engine that works with clients and servers. SQLite is a popular choice for client storage in applications such as web browsers. Django, on the other hand, is a free and open-source web framework based on Python. This Django is designed to make building complex, database-driven websites easier. This framework allows components to plug into each other, resulting in less code and lower costs. we also use web socket for real-time communication.



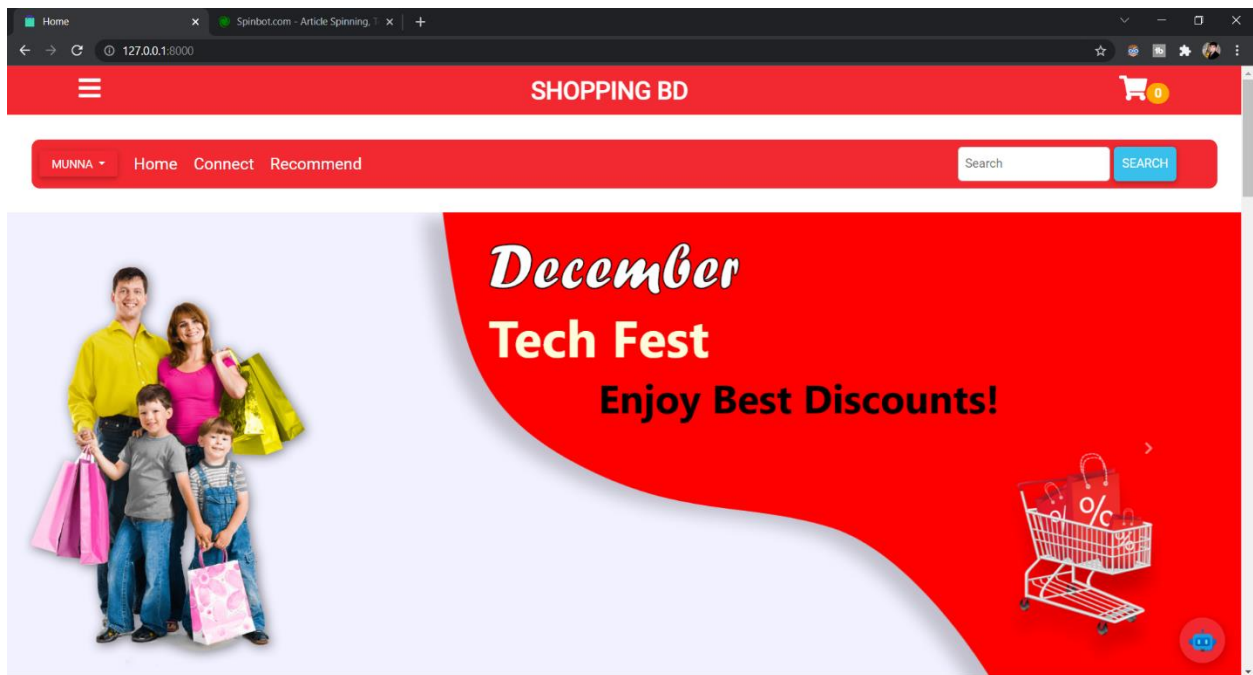
4.4 Database Schema

Chapter 5

Functionality of Our Website

5.1 Home Page

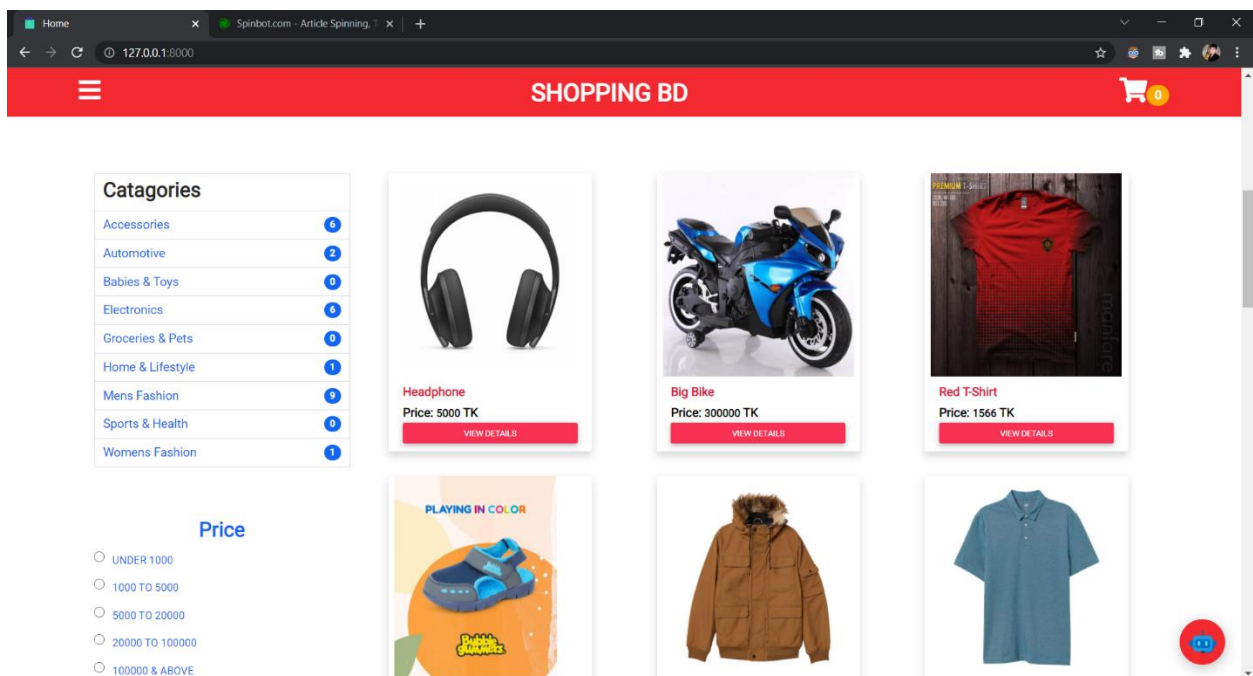
The homepage is like a face of a website. When visitors click any website's just domain URL then it takes them into the homepage. If we think of a book, the homepage is like the cover page of a book and its menus are like table of contents.



Picture: Home Page

5.2 Products View

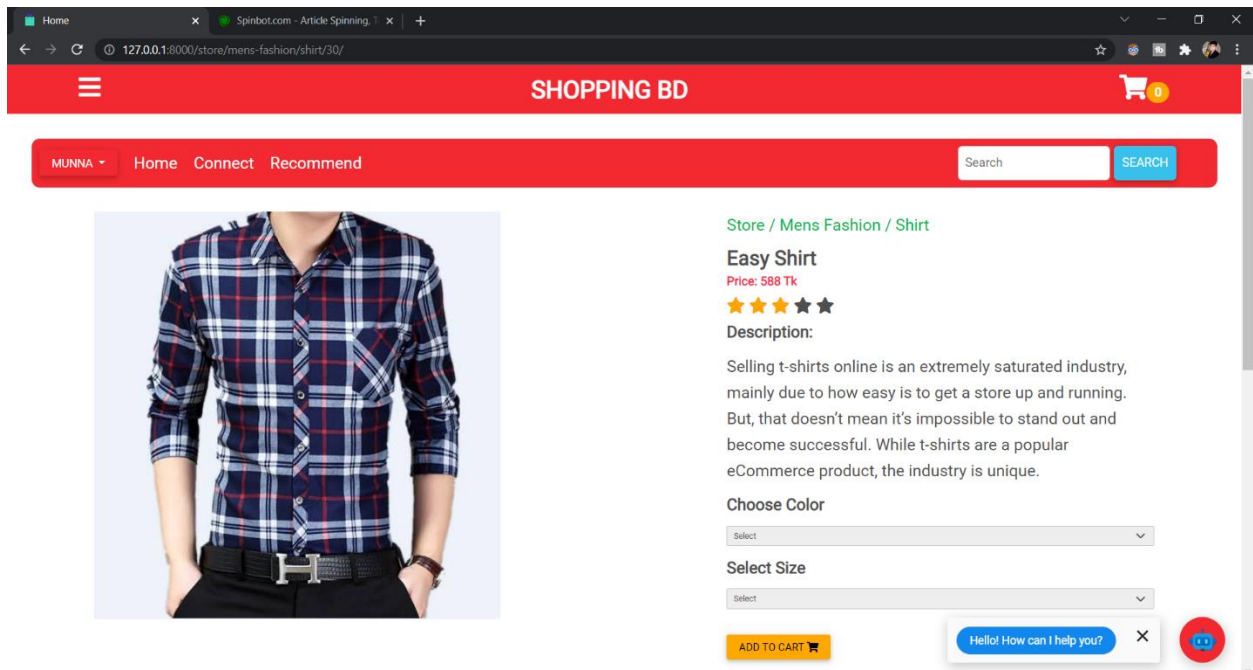
Here all the products are served to the customers and here they can search products by category, sub-category, price range, product name and buy their essential things.



Picture: Products View

5.3 Details of Products

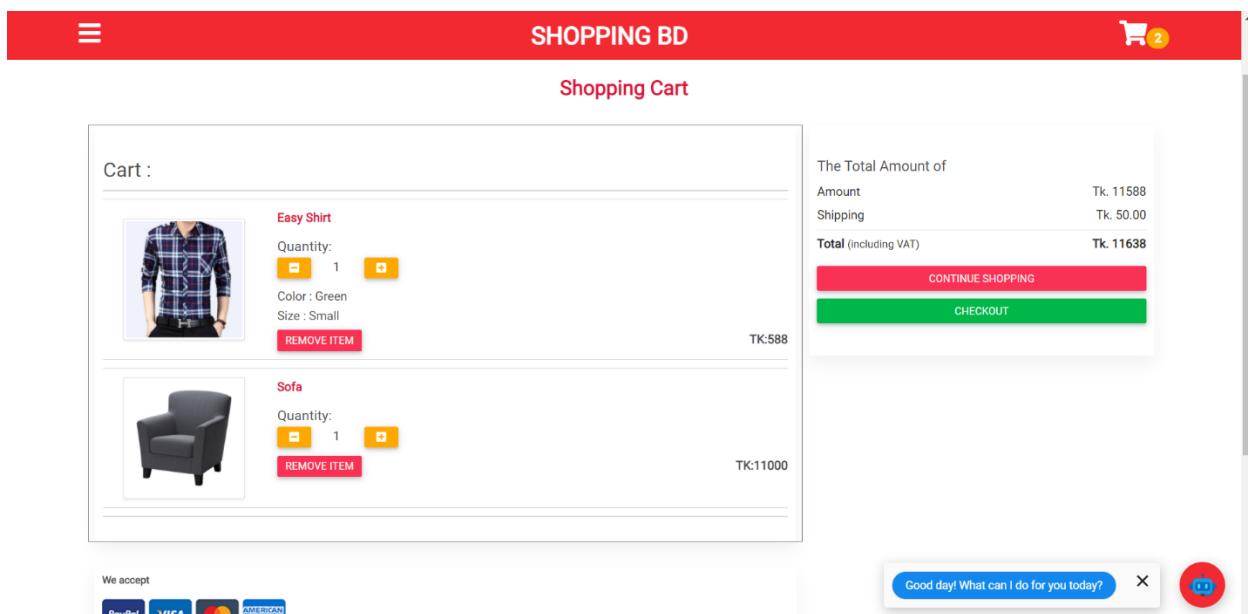
In this view, people can see details of the product, rating, and review, not only that but also they can give their own review choose the variety and add to cart.



Picture: Details of Products

5.4 Cart Page

- ✓ Order Management such as add and cancel products,
- ✓ Increasing and decreasing the quantity,
- ✓ See the total amount of price of products,
- ✓ Place order for checkout



Picture: Cart Page

5.5 Review order and make payment

Finally, from here, customers can review their purchases and make payments.



The screenshot shows a web interface for reviewing an order. The header is red with a shopping cart icon containing '2' items. The main content is divided into two columns. The left column contains the billing address and a list of products. The right column shows a summary of charges and a total amount, along with a 'CONFIRM ORDER' button. A chatbot window is visible at the bottom right.

Review Your Order & Make Payment

Billing Address

Maruf Hasan
Daffodil International university permanent campus.Younus khan scholar garden.Datta para,Savar,Dhaka | ,Dhaka
Savar, Savar
maruf3684@gmail.com
01571751384
Order Number: 20211022119
Order Note: Nothing

Review Products

PRODUCT	QUANTITY	PRICE
 Stylish T-Shirt	1	Taka.333/ Taka.333 each
 Red T-Shirt	1	Taka.1566/ Taka.1566 each

Amount Tk. 1899
Shipping Tk. 50
Total (including VAT) **Tk. 1949**

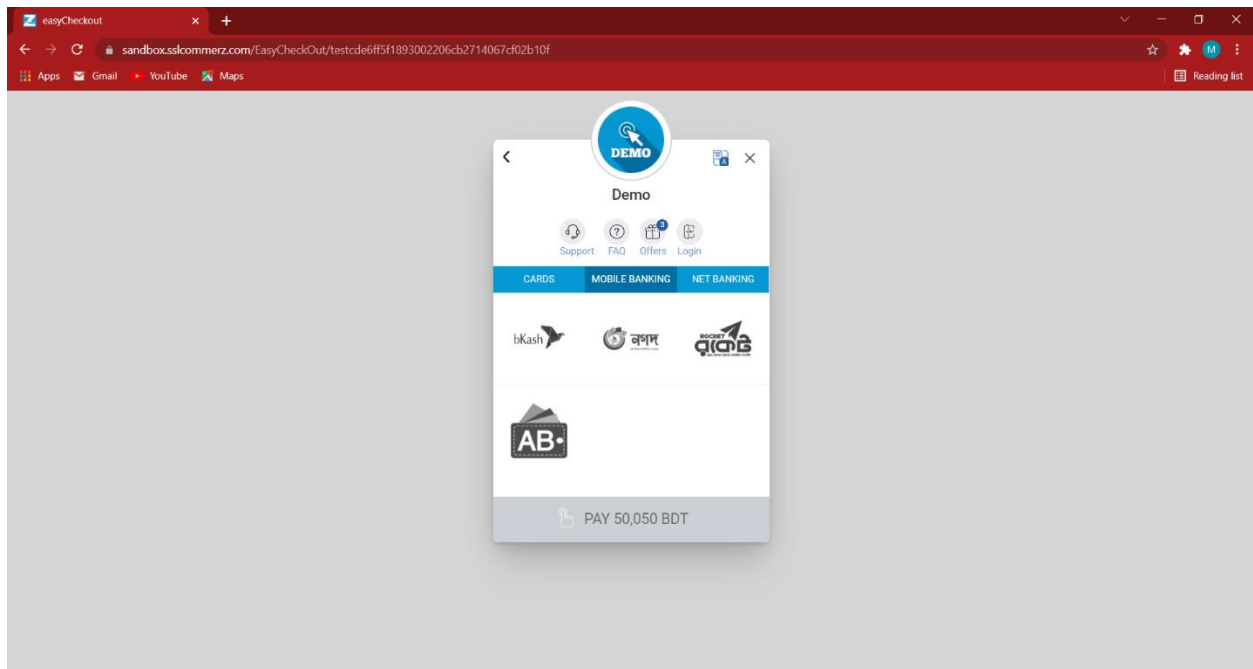
CONFIRM ORDER

Good day! What can I do for you today? X

Picture: Review order and make payment

5.6 Payment

We integrate SSLCOMMERZ Payment Gateway on our website. This allows customers to easily buy and pay for their purchased products.



Picture: Payment

5.7 Customer Registration

For purchasing from this website customers must have to register by their valid email address and go through email verification process.

The screenshot displays the 'Sign up' form on the Shopping BD website. The form is centered on a white background with a light gray border. It contains the following fields:

- First name:** Enter First Name
- Last name:** Enter Last Name
- Email:** Enter Email
- Phone:** Enter Phone Number
- Password:** Enter Password
- Confirm Password:** Confirm Password

Below the fields is a prominent red 'REGISTER' button. Underneath the button, there is a link: 'Have an account? [Log In](#)'. The form is set against a red header with 'SHOPPING BD' and a shopping cart icon with '0' items. A navigation bar below the header includes 'ACCOUNT', 'Home', and 'Recommend'. A search bar with a 'SEARCH' button is also present. The footer contains social media icons, a 'Hi! How are you doing?' chat bubble, and contact information.

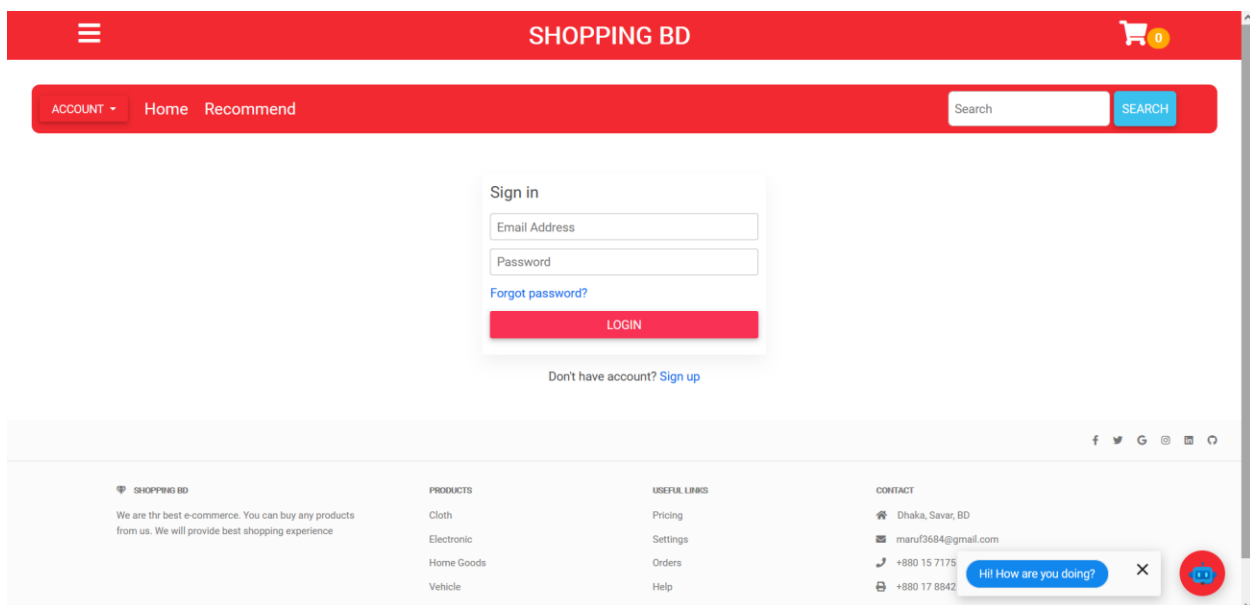
Picture: Customer Registration

The screenshot shows the 'Thank you for registering' confirmation message on the Shopping BD website. The message is displayed in a light blue box with the text: 'Thank you for registering with us. we have send you a verification email address [devwebmaruf@gmail.com]'. Below the message is a link: 'Already verified? [Login](#)'. The background shows the same red header and navigation bar as the previous screenshot. The footer contains the same social media icons, chat bubble, and contact information, along with a copyright notice: '© 2021 Copyright: shoppingbd.com'.

Picture: Email Verification

5.8 Sign In

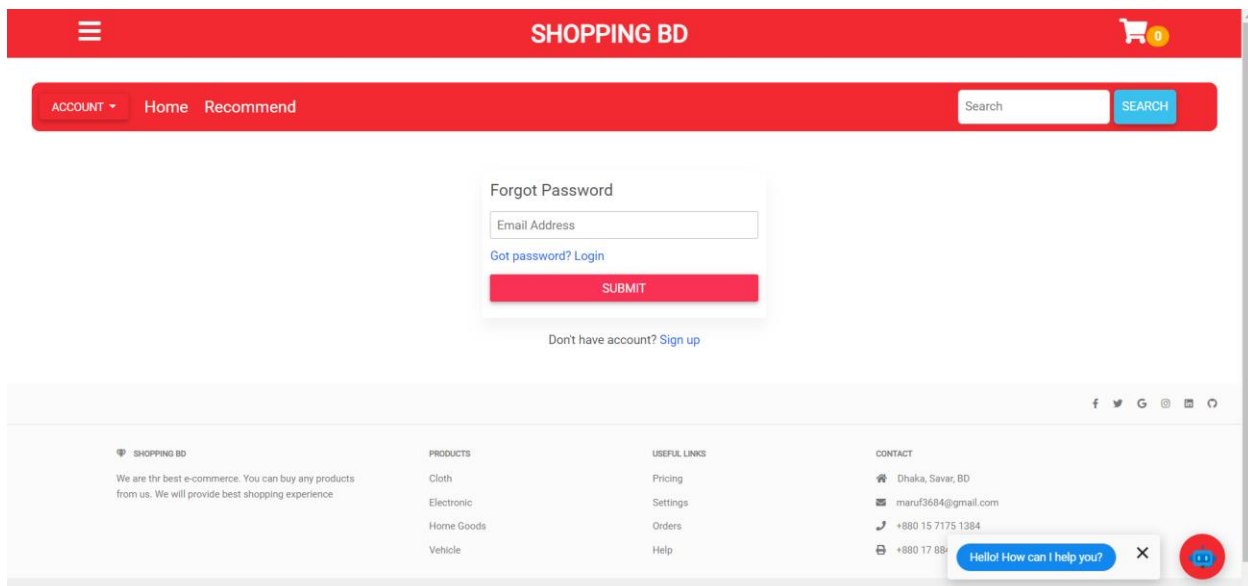
- ✓ After registration customer can Sign in
- ✓ Sign in user can access all the functionalities of this website,



Picture: Sign In

5.9 Forgot Password

- ✓ Customers can access their account if the password is lost but in this case, they have to go through the most secure email verification process.



The screenshot shows the 'Forgot Password' form on the SHOPPING BD website. The form is centered on a white background and contains the following elements:

- Form Title:** 'Forgot Password'
- Input Field:** 'Email Address' with a text input box.
- Text Link:** 'Got password? Login' in blue text.
- Submit Button:** A red button labeled 'SUBMIT'.
- Text Link:** 'Don't have account? Sign up' in blue text.

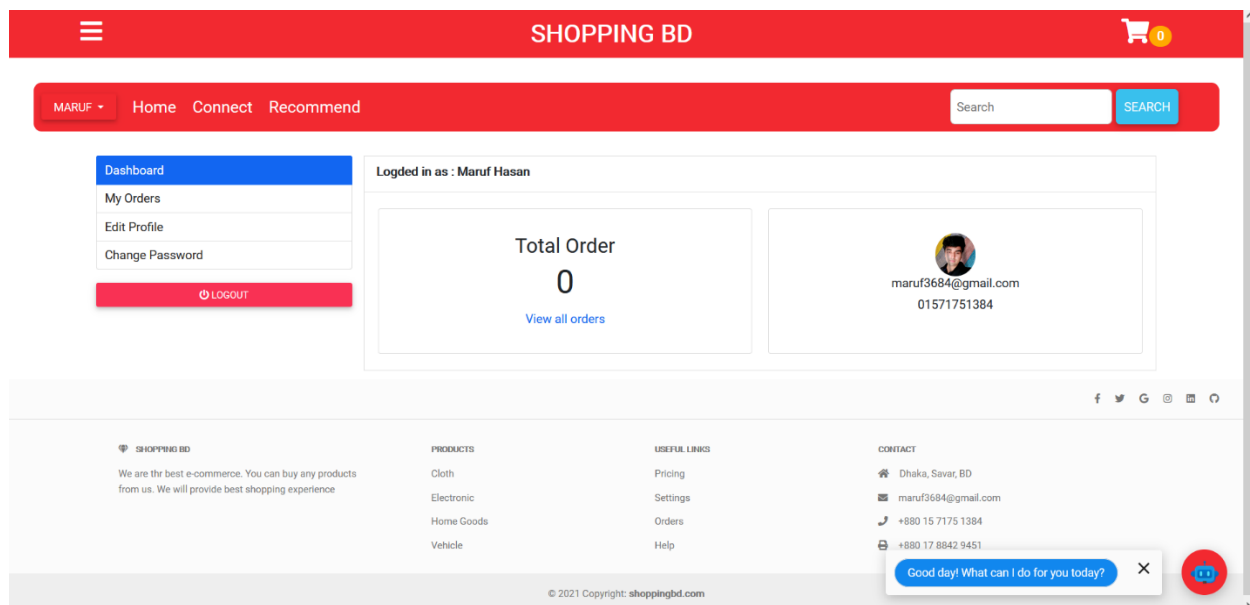
The website header is red and contains the 'SHOPPING BD' logo, a shopping cart icon with '0' items, and navigation links: 'ACCOUNT', 'Home', and 'Recommend'. A search bar with a 'SEARCH' button is also present. The footer includes social media icons, a 'SHOPPING BD' logo, a mission statement, product categories (Cloth, Electronic, Home Goods, Vehicle), useful links (Pricing, Settings, Orders, Help), and contact information (Dhaka, Savar, BD; maruf3684@gmail.com; +880 15 7175 1384; +880 17 880 17 880). A chat bubble is visible in the bottom right corner.

Picture: Forgot Password

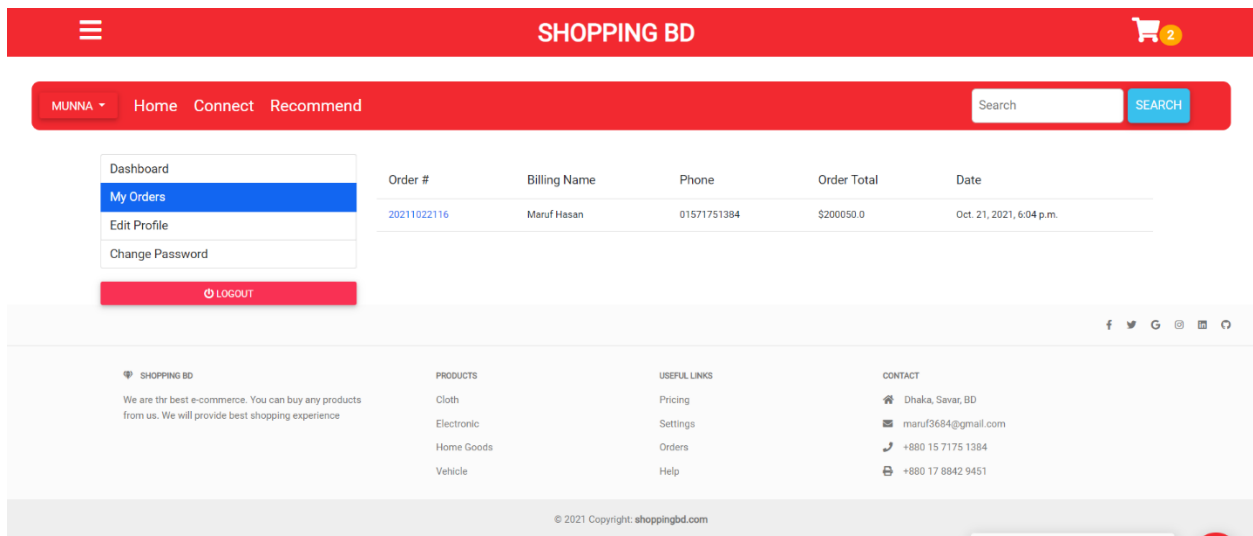
5.10

Customer profile management:

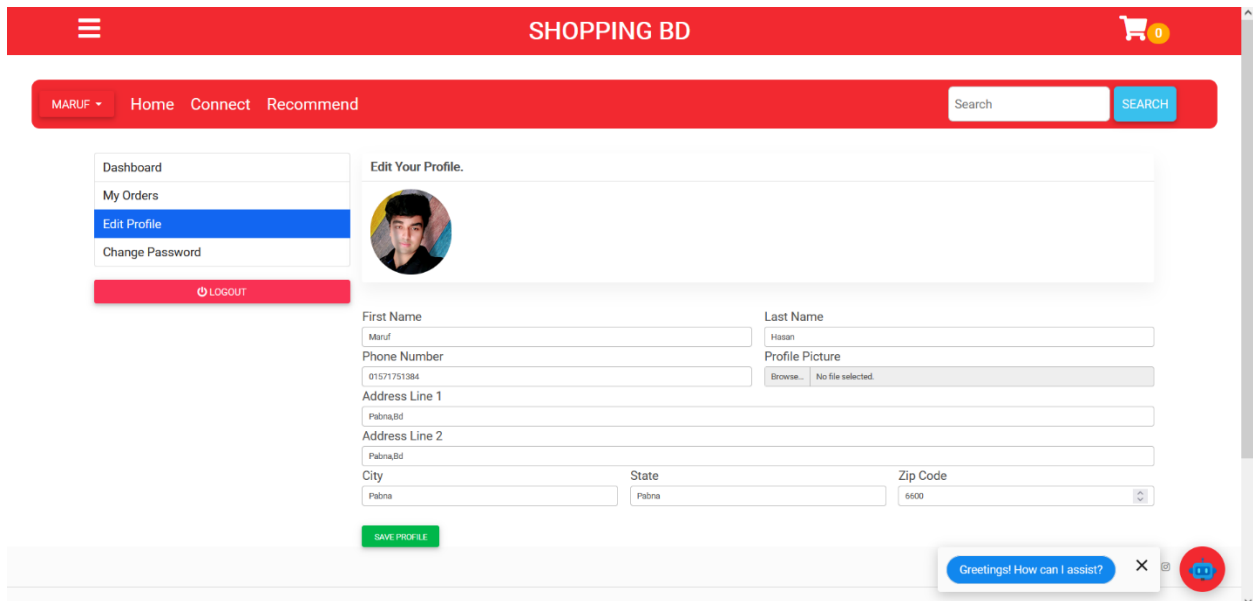
- ❖ **Dashboard-** Customers can view their total number of orders,
- ❖ **My Orders-** Customers can view their orders as a list,
- ❖ **Edit Profile-** Customers can edit their profile information as needed,
- ❖ **Change Password-** Customers can change their password for better security,
- ❖ **Order Details and Status-** Customers can view the details and status of their orders.



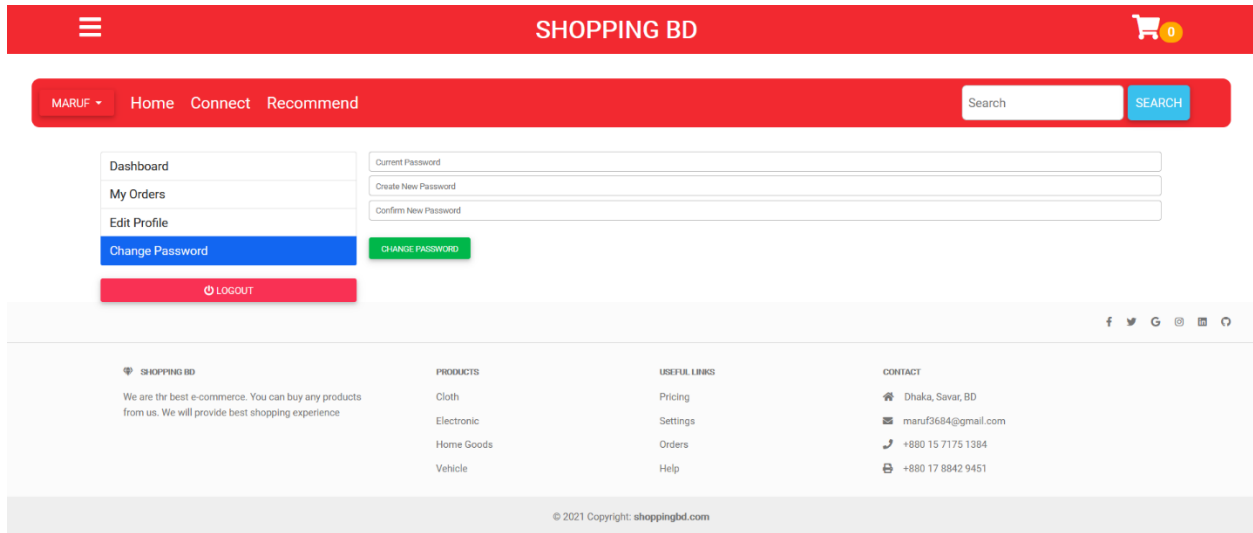
Picture: Dashboard



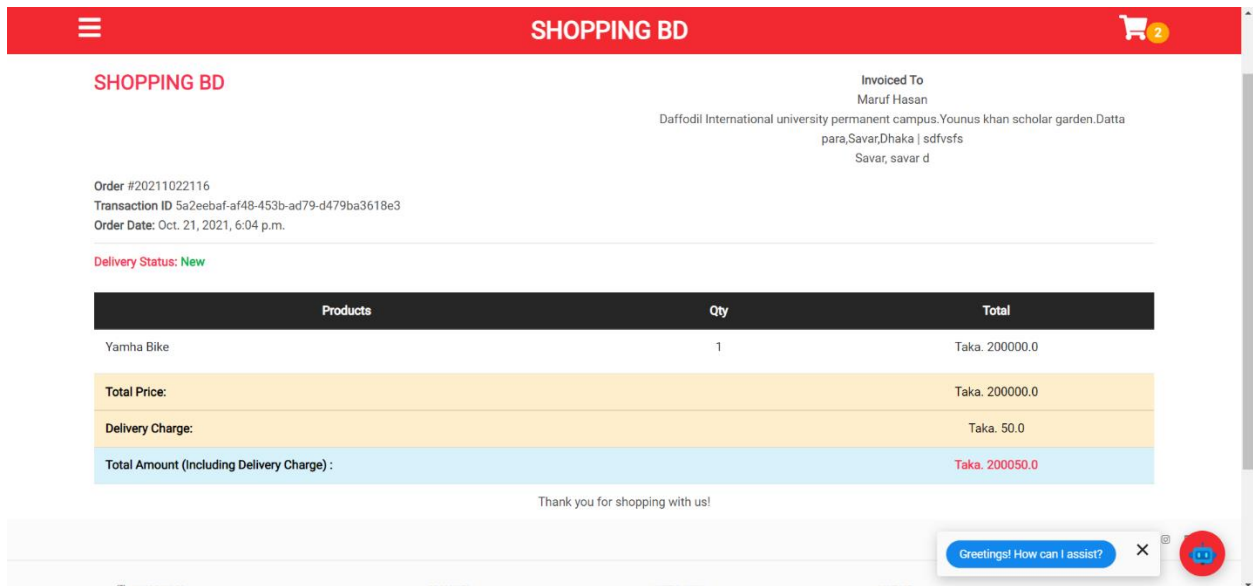
Picture: My Orders



Picture: Edit Profile



Picture: Change Password



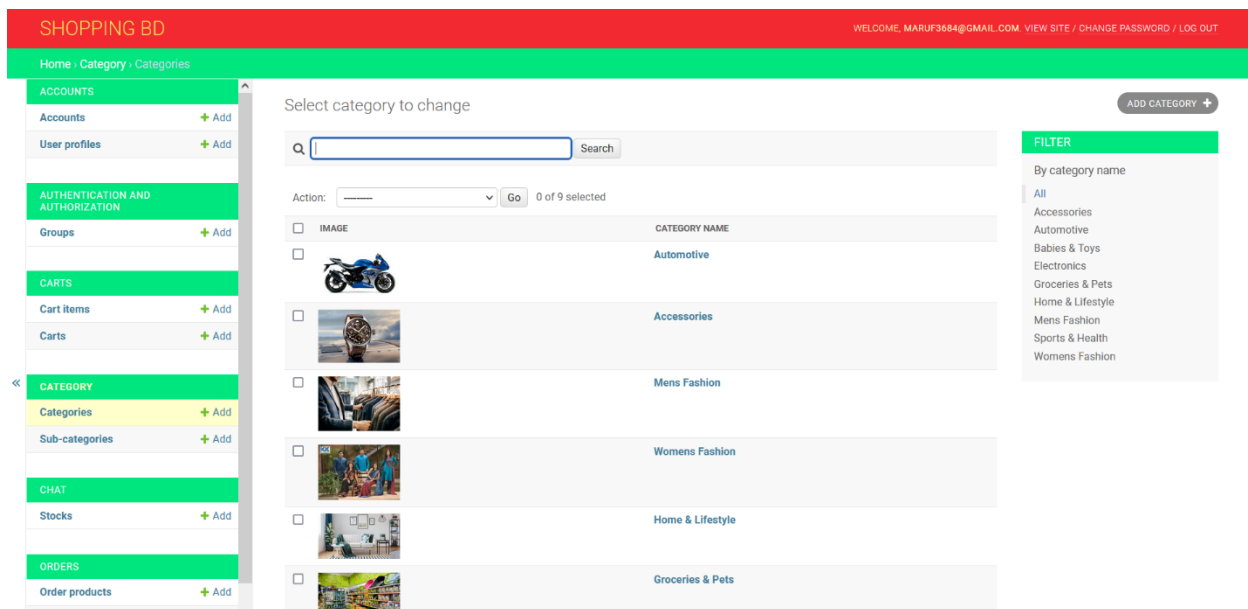
Picture: Order Details and Status

5.11 Admin

The admin panel is the main control panel of a website. The admin panel is not accessible to the average user. Only certain site admins can access the admin panel.

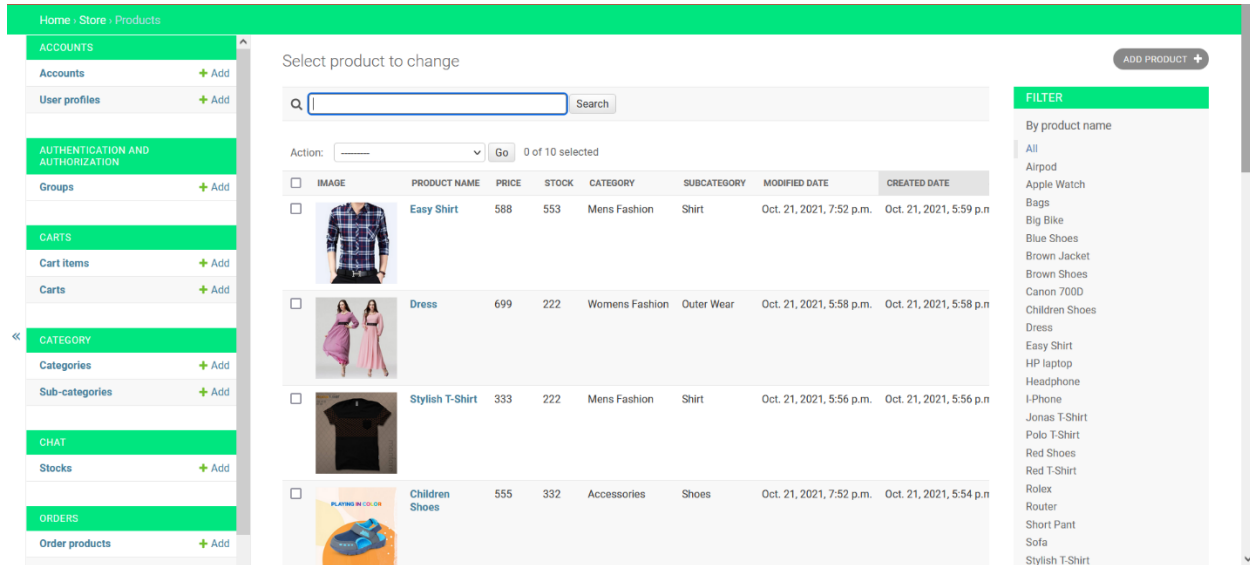
From the admin panel, the admin can create, delete, manage anything on that website. He can add a category, add products, view orders and payment details, etc.

- From here Admin can add, search, filter and delete category of product.



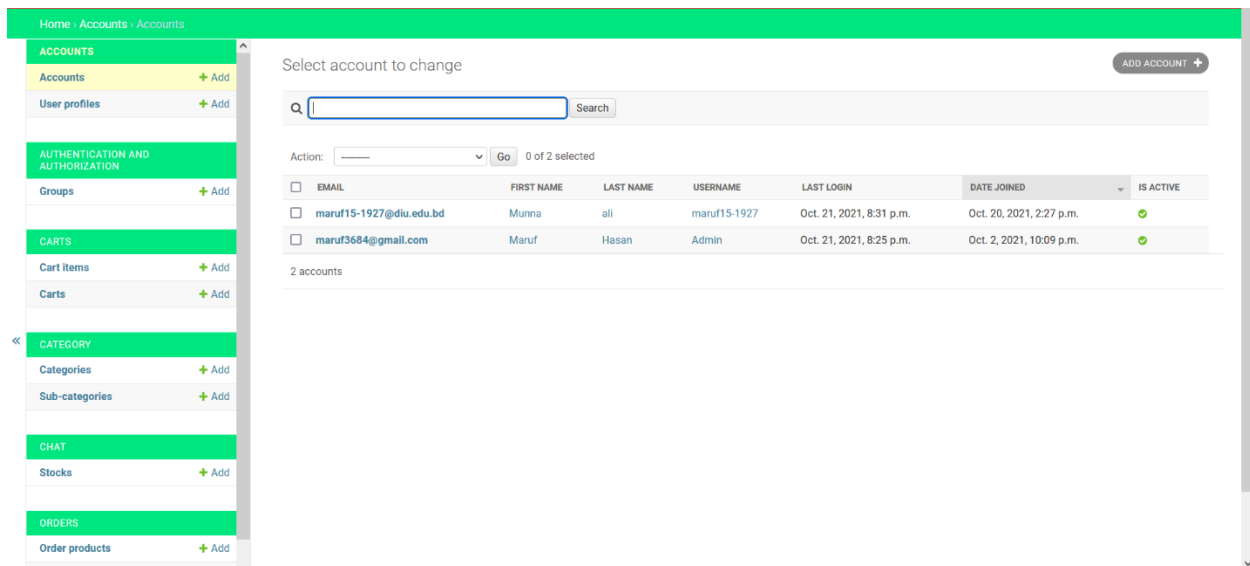
Picture: View of a category Model

➤ From here Admin can add, search, filter and delete product.



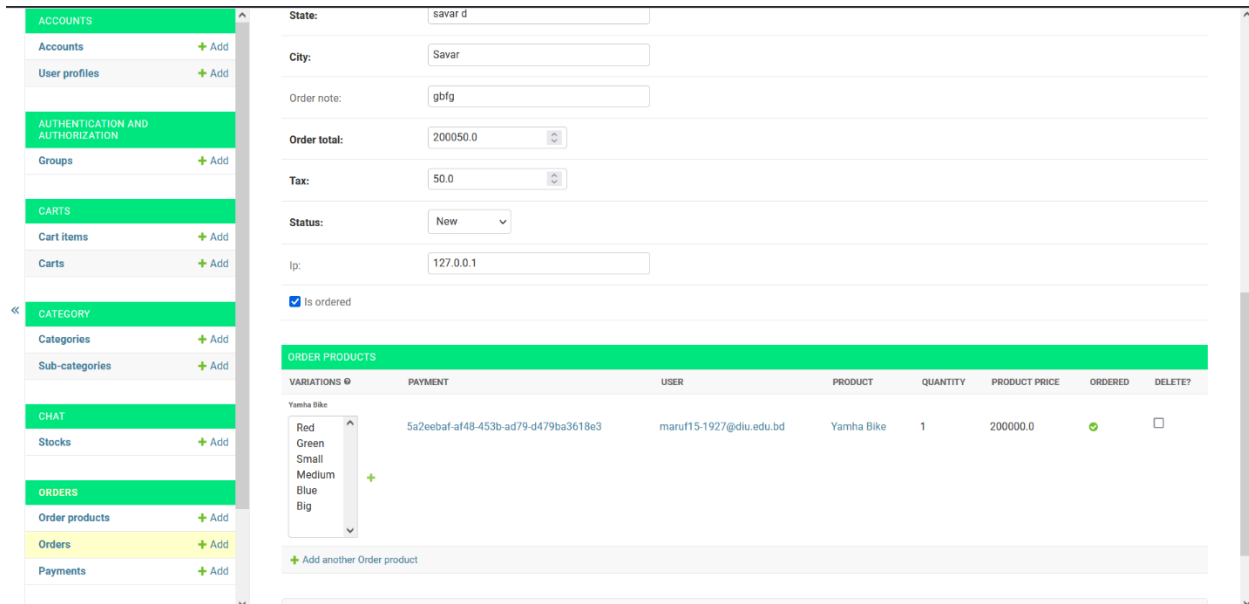
Picture: View of a category Model

➤ From here Admin can manage all user account.



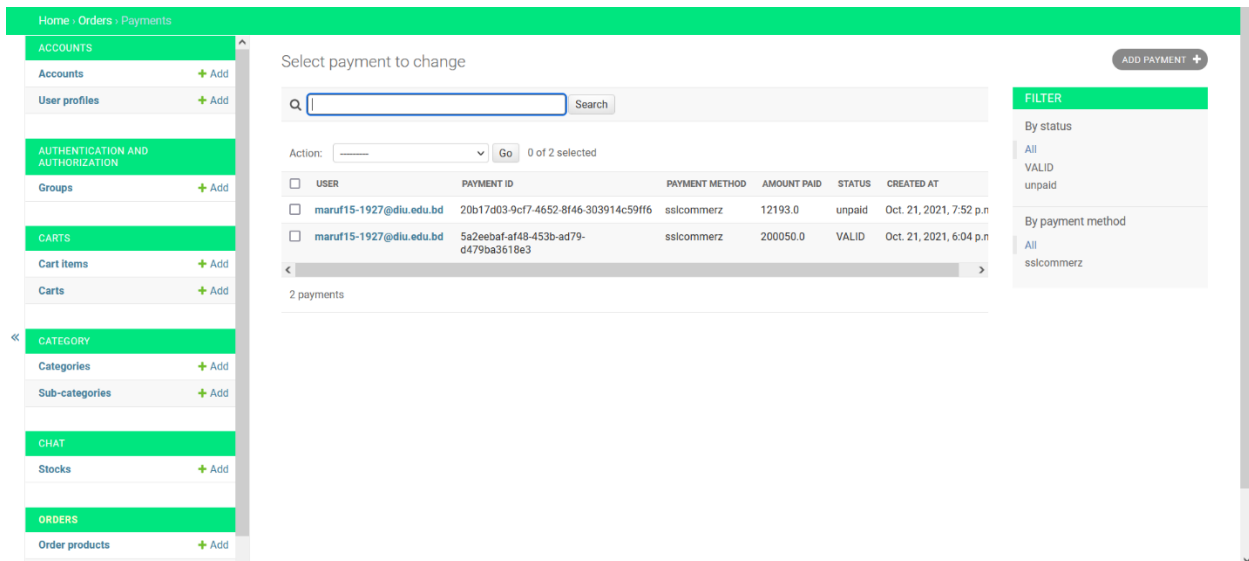
Picture: View of a category Model

➤ From here Admin can view all orders



Picture: View of an Order Model

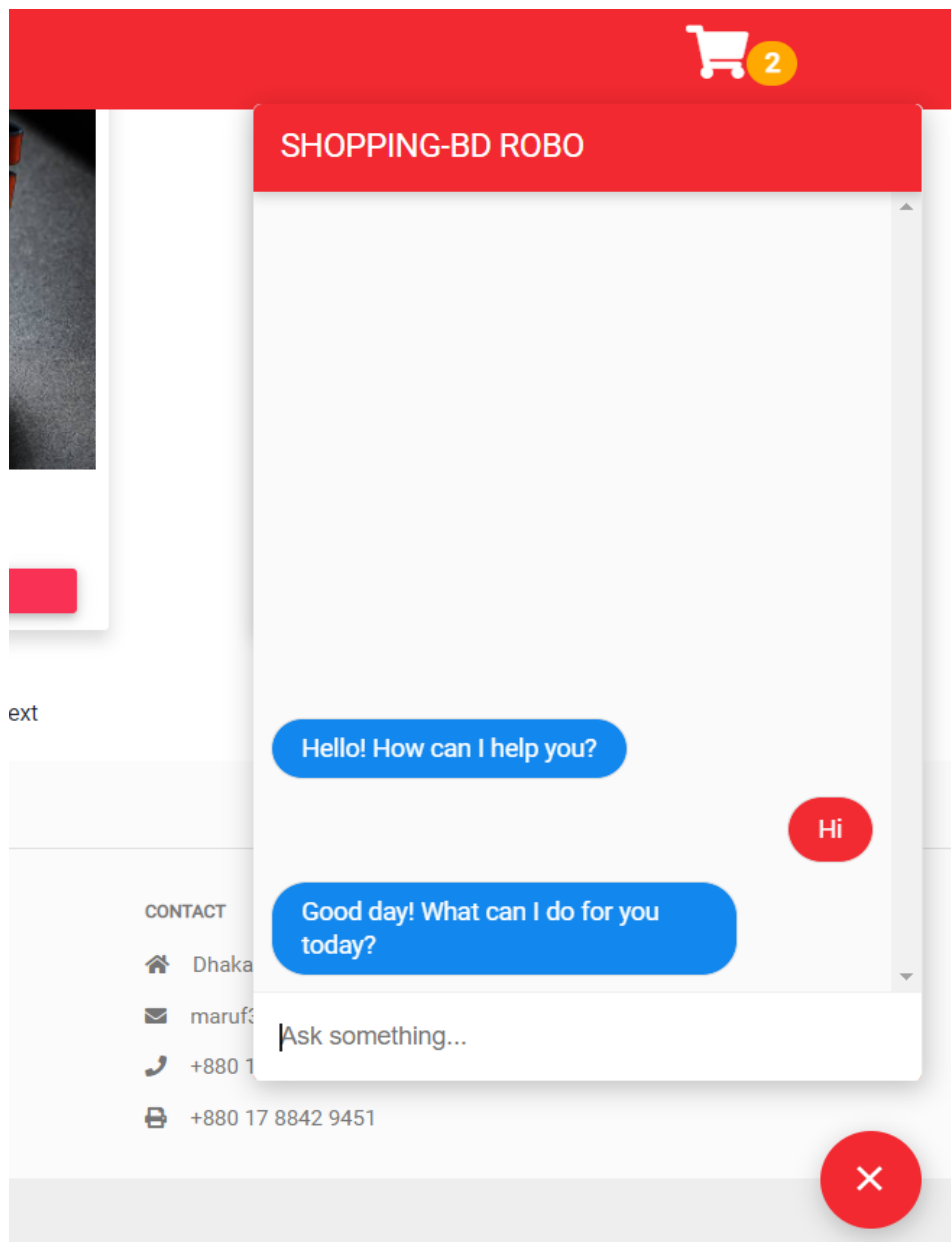
➤ From here Admin can get all payment information.



Picture: View of a Payment Model

5.12 Real Time communication

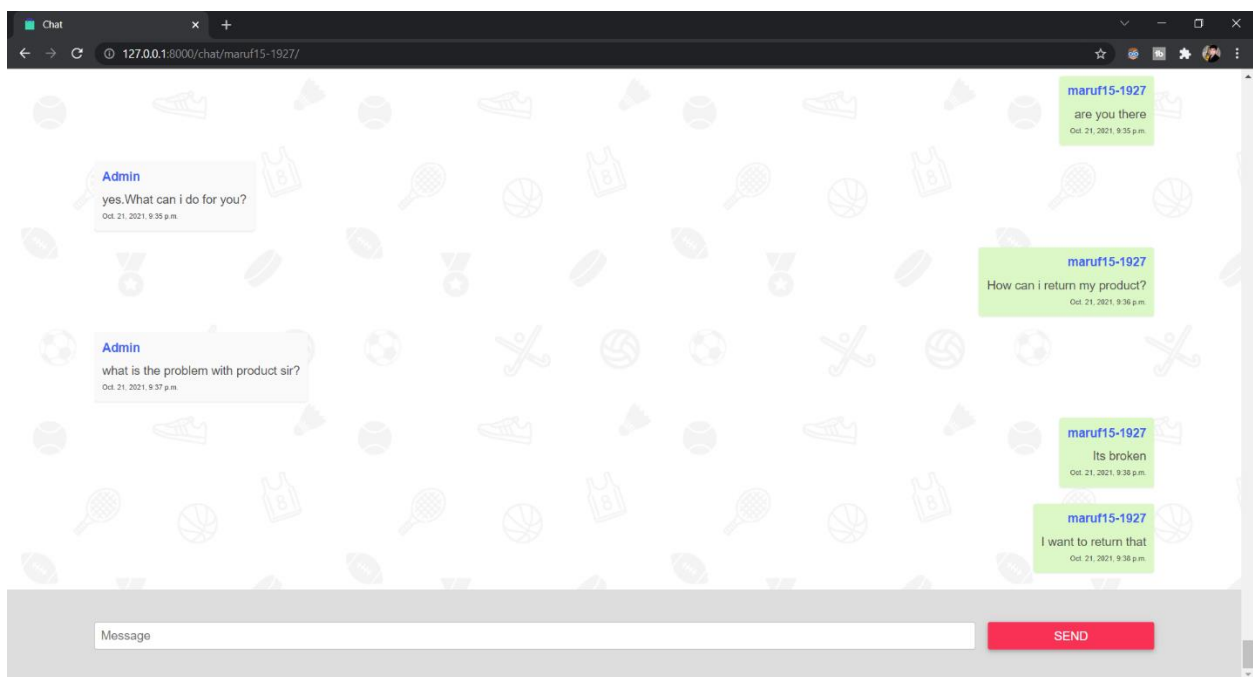
Helping Bot: This is a virtual assistant. It can help customers in real time, if they don't know anything or need help about this site.



Picture: Helping Bot

Real-time chatting messenger: It is an online chatting platform from where customers can take help from the admin directly.

Customers can also complain about any kind of problem to the admin in real-time.



Picture: Real-time chatting messenger

Chapter 6

Conclusion & Result Discussion

6.1 Result Discussion

E-commerce is growing very fast in Bangladesh. The growth of this sector over the last four years is about one hundred percent. In other words, this sector is nearly multiplying each year. According to the E-Commerce Association of Bangladesh, about Taka 700 crores is being transacted in this sector every month. In other words, the annual turnover is now more than eight thousand crore Taka. If the growth rate of one hundred percent continues, it will be a business of 16 thousand crore taka next year. At the moment in Bangladesh, about seven hundred and fifty companies are associated with e-commerce. All kinds of products are now bought and sold in Bangladesh. These include perishable goods - fruits and vegetables, as well as clothing and electronic goods.

However, contrasted with countries that are already developed Bangladesh's e-commerce business is as yet in its early stages. Despite the fact that orders can be placed online, the maximum of the transaction is in cash. This process is called cash on delivery. Even if the order can be placed online, it's far confirmed again through calling from the call center. The e-commerce corporation delivers the product to the client and brings the price in cash. consequently, full-fledged e-commerce has not launched yet in Bangladesh.

So, there are 3 main obstacles to the spread of e-commerce, first people still do not fully trust e-commerce companies. The second problem is that a reliable delivery system has not been developed in Bangladesh. The Bangladesh Postal Department has recently started trying, but so far they have not been able to set up e-commerce delivery systems across Bangladesh. Another big problem is that there is no reliable payment system. Although limited e-commerce can be introduced in big cities, 80 percent of the country's rural population is out of its reach.

Many small and medium entrepreneurs are now associating themselves with their own e-commerce platforms. Buyers are also building confidence in their products. Now we have to continue this trend. We have to continuously improve ourselves through effort and proper strategy. Internet users are growing across our country, the delivery capacity of e-commerce companies has

also increased and the digital payment infrastructure is growing in parallel. But these are working as the basis for the development of the e-commerce sector.

However, much will depend on technological transformation in the future. Now the days of 4G are going on, 5G will come in front, the amounts of internet-based services will increase. People will also become accustomed to taking advantage of more technology. The investment will increase. All this is an indicator of the future development of the e-commerce sector.

6.2 Conclusion

Since we are creating an e-commerce website, it will most likely be utilized to buy and sell goods and services over the internet. The primary goal was to create a website where users could buy any product from anywhere in Bangladesh. Aside from that, users can pay easily through sslcommerz. This will keep their transactions secure. We understand how difficult it is to come to the market from the countryside. So, our main goal is for individuals to be able to connect with the global market. Delivering the right product at the right price to those who are deprived of the amenities of the city. They will save time and effort as a result of this. In addition, we will implement a real-time chatting system so that users can easily contract with the admin also implement a chatbot for helping them to understand the functionalities of our website.

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