

CLICK TO CART A WEB BASED APPLICATION

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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/internship titled “**Click to Cart : A Web Based Application**”, submitted by Faruk Rahman Jihad, ID No: 201-15-13628 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 19-01-2023.

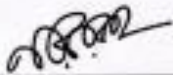
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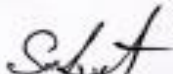
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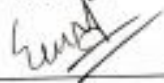
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DECLARAITON


We hereby declare that, this project has been done by us under the supervision of **Md. SazzadurAhamed, Assistant Professor, and Department of CSE** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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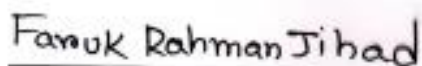
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ABSTRACT

This project is very important for all conscious people. This system will help all kinds of people. It will create a smooth environment to ensure better service. This is a web-based project, where a user browse this website and show all types of product list and user can purchase any product in online. This web project deploy online payment method system and user will get home delivery service from this shop. User can purchase product and payment online. This project is provides the help of online shopping to the customers of a physical store. Online shopping system can implemented to local supermarket. A supermarket have all types of product so there are providing a online shopping portal and their customers can shopping product and customer can enjoy easy shopping. Recent times have seen the rise of e-commerce platforms, whose operations are a subset of e-business operations. The purpose of this article is to establish a dependable website based on e-commerce theory and produce web pages that are functionally created. This website will sell a wide variety of goods. It must make advantage of modern technologies to develop the sales online website in order to do this. This straightforward approach to building an e-commerce website can be easily copied and followed in developing and underdeveloped countries where computing resources are expensive and scarce due to their socio-economic conditions.

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CHAPTER 1

INTRODUCTION

1.1 Motivation

E-commerce means electronic commerce. Even now, a while after the so-called ".com/internet Revolution," electronic commerce (e-commerce), the developing and constantly evolving field of business management, and information technology are all relatively young. E-commerce has been and is still the subject of much hype and discussion. The term e-business refers to a set of structures that includes both transactions that support revenue creation and those that are centered on the purchase and selling of products and services. Creating demand is one of these tasks, as is offering goods and services, aiding in sales and giving customer service, or offering facilities for partner communications. Computers' flexibility, the availability of networks and the internet, and e-commerce builds on conventional trading. Establishes e-commerce online opportunity to engage in new, profitable activities. It encourages simple cooperation between various Group: Information is shared to strengthen company relationships with customers; businesses collaborate to invent and develop new goods and services; or a multinational corporation sharing data for a significant marketing campaign.

We focus on digitally commercial transaction and individuals. This business applications becomes e-commerce, when the implementation of value. E-commerce transaction enable digital transaction and transaction process by digital platform and technologies. Through e-commerce, also known as electronic data interchange, a business has access to both the Internet and IT. E-commerce describes the purchase of a product, service, or website from an online vendor. directly from the platform to the user. Gateway for using a shopping basket or wireless shopping cart to make payments Electronic Funds Transfer, a credit or debit card, etc. Transaction are done through internet and web. E-telling is a subset of e-commerce so which includes all commerce conducted over the internet. It refers o that part of e-commerce which includes sales of goods and it does not exclude the

sale of service like train, airline and job portal tickets. All kinds of business-related interactions, including both individuals and organizations. Which includes text, sound and visual pictures and is based on digital processing and transmission. In this viewpoint, using the Internet is not necessary for conducting business online.

These are some examples of how businesses use the Internet. A successful e-commerce program relies heavily on this service and efficiency. either as an auxiliary activity or as a link in a value chain, they are included:

- Purchase and sell products and services.
- Internal communication within the company.
- Collaborating with others.
- Information disclosure and distribution.
- Releasing software patches and updates.

An overview of electronic commerce is given in this review article, with a particular emphasis on what it is and why it occurs. essential for contemporary marketplaces. It covers internet commerce and its different sorts of facilitators. Along with the benefits that e-commerce provides, there are some drawbacks as well. as outlined in the following section. The trends and future of electronic commerce in Bangladesh will be covered in the last sections.

1.2 Motivation

Use E-commerce to expand your company across borders. Yes, despite the fact that the online market has been around for a while, it is never too late to improve, and thanks to a variety of online solutions, starting an online company or engaging in e-commerce is much simpler now than it was a few years ago. Staying current with the market is crucial and even more so for any company striving to dominate the industry in these era of

mobile and cell phones, where any technological advancement is merely a temporary milestone.

I considered building a fully functional web application for this project for two main reasons:

- Due to the widespread accessibility of the internet and microcomputers, e-commerce has recently taken over the corporate sector. In addition to being simple to use, electronics have been a sector where more and more people are interacting daily. We were interested in learning more about current events and problems in this industry.
- My intention was to produce a project that met professional standards and would further our cause. An understanding of how things function in reality. We have been able to become somewhat familiar with one of these approaches thanks to working with React.

In short, the project had significant motivation because it combined and explored the two major sectors, which are not only rapidly expanding in other areas of the world but also have a bright future in Bangladesh.

1.3 Objective

An e-commerce website's main objective is to sell goods or services. Providing product details, reviews, and comparison options to customers is one of the secondary goals. Expanding consumer reach, lowering cost-to-serve, and developing unique customer experiences are three ways that eCommerce fosters profitable growth. It is now crucial for business-to-business (B2B) enterprises to use this potent instrument strategically. eCommerce has demonstrated to be a disruptive force in the present B2B environment. A significant portion of the buying process is increasingly being moved online by B2B companies, and these buyers are expecting an eCommerce experience that is comparable to that of consumers.

Our main goal is to seamlessly collaborate with teams while managing and overseeing projects. They are effective for helping individuals, teams, and organizations finish projects quickly and without missing any deadlines.

What makes e-commerce special are the following:

- It basically means that it occurs everywhere.
- Global reach, E-commerce, as I previously stated, is everything.
- Richness of Information.
- Information density.
- Personalization.
- Social technologies.
- Interactivity.
- Different functionalities should be offered to single and multiple users.
- Easily track the progress of employee work.
- To ensure the system's proper security.

These are the main goals that we want to achieve.

1.4 Expected Outcome

The percentage of purchases made online has significantly increased recently. Over time, as there are more customers, this percentage rises. E-commerce has several advantages for consumers, businesses, and society as a whole. To give an example, in the past, when traditional marketing strategies were dominant, consumers wasted a lot of time and energy traveling to traditional retail locations to make their purchases. Customers no longer need to make the tiresome trip to the supermarket to purchase their preferred goods thanks to the arrival of e-marketing.

Online shopping is becoming more popular for a variety of reasons. The most typical one is that reality. Both the customer and the retailer find this shopping experience to be enjoyable. where it is alleged to be a win-win circumstance, Both parties gain.

1.5 Project Management and Finance

A division of conventional project management with its own specialty is e-commerce project management. In essence, it is the practice of carrying out a variety of tasks as well as a variety of abilities, tools, strategies, and procedures intended for the successful growth of an e-commerce project. The application of traditional project management concepts and techniques in e-commerce is more difficult than in any other industry, but it still heavily relies on them.

While attempting to draw in new clients and hold onto existing ones, businesses must react swiftly to changes in the social, economic, and global environments. While attempting to draw in new clients and hold onto existing ones, businesses must react swiftly to changes in the social, economic, and global environments.

By using actual instances, we can more clearly show how these theoretical viewpoints on the distinction between conventional and e-commerce project execution operate. E-commerce are terminology used. In the area of IT, there are several definitions. One of them entails the Internet-based integration of an e-business company's operations, including its goods, processes, and services. When a company integrates marketing, sales, accounting, production, and operations web site activities, that company typically and in practice transforms its business into an e-business. using the internet as a resource for all commercial endeavors. using the internet as a resource for all commercial endeavors.

The perspective of design in relation to time, which is arguably the most important motivation to take into account, is measured by this amazing assessment. This project

depends heavily on timing because the framework will be introduced on schedule. This building is not very large, so it ought to be feasible during the shellfish season.

This evaluation is based on the materials needed to build the structure. The materials needed for this framework are very obvious and doable; the crucial materials for this system are vital gears and a useful movement structure. With the help of this comprehensive evaluation, we can decide whether to proceed with the project and confirm the framework's suitability for use.

1.6 Report Layout

A kind of summary of each section is provided by the report's layout. Given all factors, the following is a sort of summary.

Chapter 1: Introduction, motivation, objective, expect outcome, project management and finance a reliable purchase to expect report management results.

Chapter 2: Describe background , perliminaries/terminologies, related works, Comparative Analysis and Summary, scope of the problem ,challenges,

Chapter 3: Describes the design specification, font-end, back-end, java-scripts, css authentication and development tools and technology.

Chapter 4: Implementation of site, all process of block diagram, homepage, login page, add to cart page, checkout page.

Chapter 5: Stop speculating about potential outcomes and extending discussions.

CHAPTER 2

BACKGROND

2.1 Preliminaries/Terminologies

In Bangladesh, there are many website for shopping product or item delivery that are active and effectively serve their product for client. These site are used to handle a lot of representatives. According to their needs, consumers choose and buy the things they need. And online stores arrange to ship the products to the customer. Therefore, my project will be a user-friendly web application that allows people to access their necessities from home.

2.2 Related Works

Plans and associated studies that have been assessed in this area are described in this section.

Daraz : E-commerce is the buying, selling, and exchanging of goods and services online as well as the transmission of funds or data. E-commerce businesses are already part in our daily life. Daraz is most user friendly web site in Bangladesh. Daraz has enabled people to shop online from the comfort of their homes without having to travel to a store. Daraz have Two key modules vendor and guest/user are astronomically separated in the design. Sellers include store employees and managers. They will be able to add, edit, review, or remove products, making it possible to change brand names, prices, or even to add or remove products. Daraz customers can browse the product selection, visit the store, change the layout of the aisle, and add or remove items from it. So visit daraz website and Sit back and shop. Bangladesh will see the rest.

Amazon: The corporation Amazon is known as the largest everything store.

To get to its current position as the biggest online retailer in the world, it has seen enormous development throughout time. Jeff Bezos, who founded the company, is the brains behind it.

Invent concepts that led to the creation of Amazon in the early 1990s. Bezos was doing Internet research for Shaw & Co.5 for D.E.

Amazon was working for a major international investment and technology development firm when he realized the book was ideal. Americans have been insane ever since the United States was founded.

Obsessive consumerism, which is defined as the Preoccupation and Propensity to Purchase Consumer Goods, was developed by acquisition. Amazon's market consolidation is hardly a secret to its rivals or customers.

The future success of businesses operating in Amazon's target markets is significantly influenced by these spheres of influence.

2.3 Comparative Analysis and Summary

The most important resources at the disposal of marketers are data and market research. They are necessary for developing development strategy, planning advertising budgets, and market position analyses. Accessing market-wide data, which is necessary for comparative analysis, is difficult, though. This is how you may make informed selections and receive a genuine view of the market position.

I have been to the headquarters of some well-known internet retailers to learn why they sell their goods online. Exceptional and well-known for transportation. Additionally, I examined the shop's most well-known vendor.

2.4 Scope of the Problem

Security breaches are one of the most difficult issues with e-commerce. When dealing with e-commerce, a lot of information/data is involved, and a technical issue with the data can substantially harm the retailer's ongoing business operations and brand reputation.

One of the most difficult aspects of shopping online is resisting the urge to physically touch a product. Online retail customers must go the extra mile and check out just one product to combat this.

Technical difficulties, erroneous shipment addresses, payment mistakes, and fraud are just a few of the difficulties that online customers frequently encounter when making purchases. For both businesses and consumers, these problems may result in lost revenues.

In the event that the administrator gains access to that portion, it must also be better maintained.

2.5 Challenges

E-commerce wasn't even a familiar idea to Bangladeshis ten years ago. Few people were aware of it, and even fewer were actively engaged in e-commerce. The sector has expanded over the years as a result of changes in character, the adoption of the internet, improvements in logistics and communication, and the explosive growth of online banking and mobile finance.

The most typical ecommerce difficulties faced by online business:

It is necessary to verify your identity online.

- Offering a multi-channel client experience.
- Superior to fierce rivalry.

- Don't use the shopping cart.
- Uphold your clients' loyalty.

Another significant barrier is the general lack of digital access and literacy, particularly among rural residents.

The lack of a reliable delivery channel is the last but not least issue. There aren't many traditional courier delivery services, and in recent years, modern app-based delivery service providers have been able to offer same-day or expedited delivery facilities, but these services are primarily unavailable outside of Dhaka and a few other major cities.

To ensure that Bangladesh's e-commerce business picks up steam and can see sustained growth in the years to come, it is imperative to take significant and comprehensive action right away.

CHAPTER 3

DESIGN SPECIFICATION

Below is a sample design. It outlines all of the technology that we have used to finish this website. After showing our application, go on to show how our system is tested.

3.1 Front End

The area of an e-commerce website that online users see and interact with is called the frontend. It's also known as a digital storefront. The section of an e-commerce website that handles all the data, including prices, promotions, product images, order details, and fulfillment is called the backend. The difficulty of front end development is the tools and techniques used to modify the website's front end on a regular basis, thus the developer must continuously be informed of how the industry is changing.

Additionally, JavaScript was used in the design of my website's front end. Due to the abundance of resources available for web development and the fact that JavaScript is a full stack language, it is currently the language most developers use and prefer.

3.2 Java-Script

JavaScript is without a doubt something you've heard of if you are studying web development right now.

Being familiar with this widely used programming language is crucial if you're thinking about a career in web development because it originally developed for web browsers but has since expanded to do much more. I'll give you a brief overview of JavaScript's backend functionality in addition to an introduction to it in this manual.

Front-end requirements are:

- Google Material Design expertise is required.
- Must be able to make the proper corrections.

- HTML and CSS knowledge is required.
- JavaScript programming expertise is required.

3.3 CSS

The appearance and layout of a page written in a markup language are described using CSS, a style sheet language. The languages can be used to create any sort of XML document, including plain XML, SVG, and XUL. Despite the fact that HTML and XHTML are frequently used to style web pages and user interfaces. In addition to HTML and JavaScript, CSS is a foundational technology that is utilized by the majority of websites to build aesthetically pleasing webpages, web application user interfaces, and user interfaces for many mobile applications.

3.4 Back-end Design

The website that users cannot see is the focus of back end development. It's what gives a website its interactivity. The server side of a website can also be used to describe the back end. Take control of a social networking platform, for instance. To store all of your users information, you need a convenient location. Users access backend designers' components and features through a front-end application. Additionally, the backend contains exercises that require you to create APIs, libraries, and work with framework elements without the aid of a user interface or even a logical programming framework.

And the React language and Node JS were used to build the backend of my website. If we use javascript on the front end, we are more accustomed to the backend node.

3.5 Authentication And Database

In today's world, websites and apps must prioritize security. Basically, this is done to make sure that no one acts on your behalf and that no personal information is disclosed to the public.

Developers will occasionally create their own backends with unique security features. Many platforms are used by other developers so they don't have to worry about security-related details, and these platforms assist developers with the most secure method of user authentication.

I utilize Firebase, which supports us with a number of services including cloud storage and database authentication.

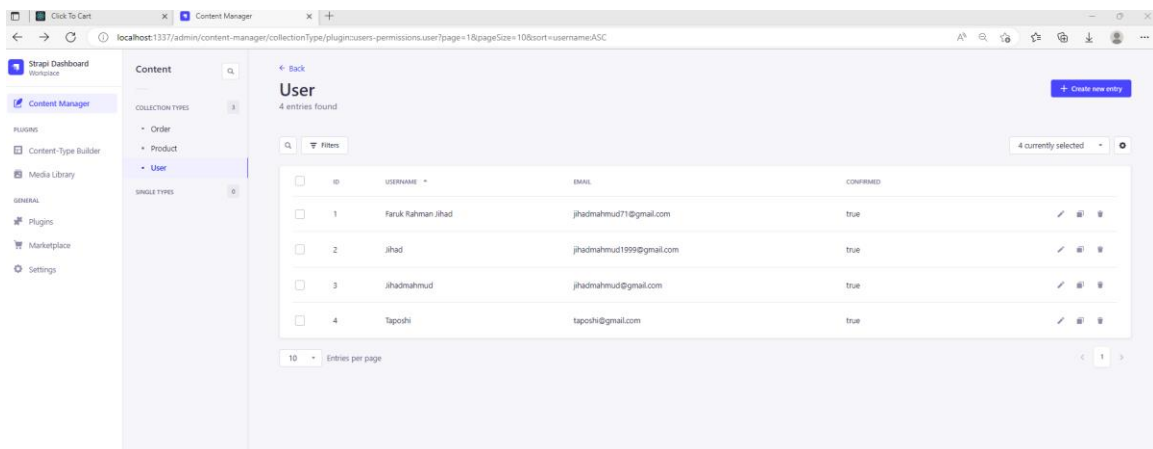


Figure 3.1: Authentication Database

3.6 Development of tools And Technology

User interface technology:

- Java-Scripts
- Css
- React
- Node.Js library

Implementation tools:

- Visual Studio (Editor).
- Server Strapi.

CHAPTER 4

OVERALL IMPLEMENTATION

4.1 All Process Block-Diagram

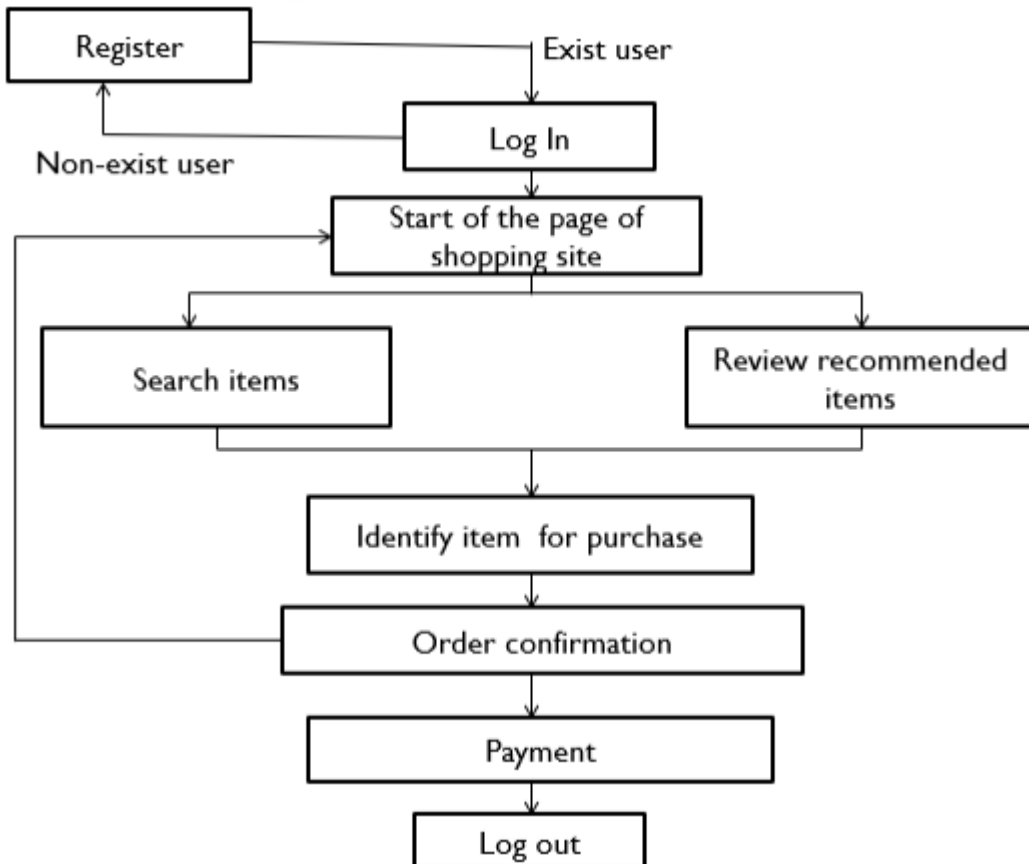


Fig 4.1 : All process block diagram

4.2 Home Page

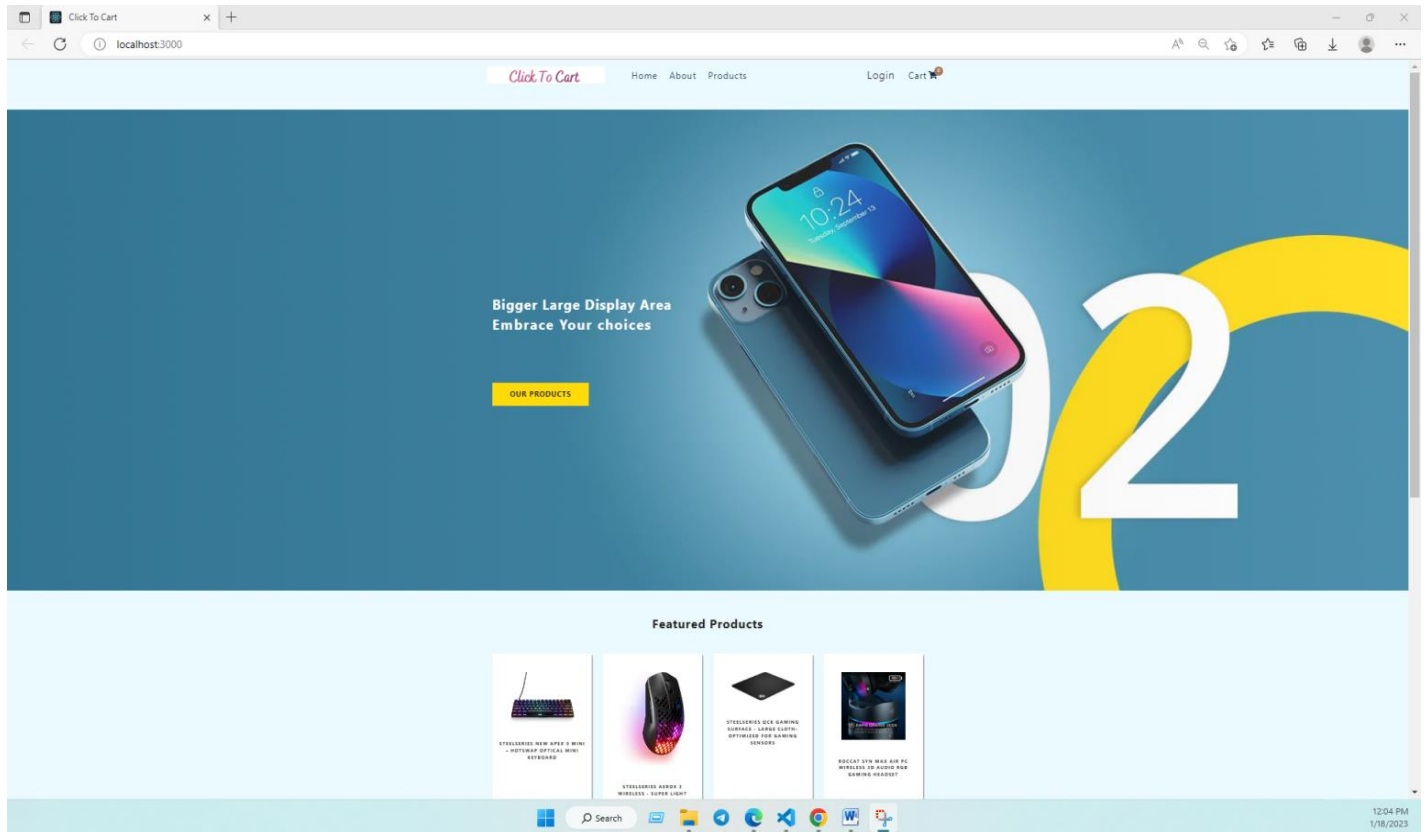


Fig 4.2 : Home Page

4.3 Products Page

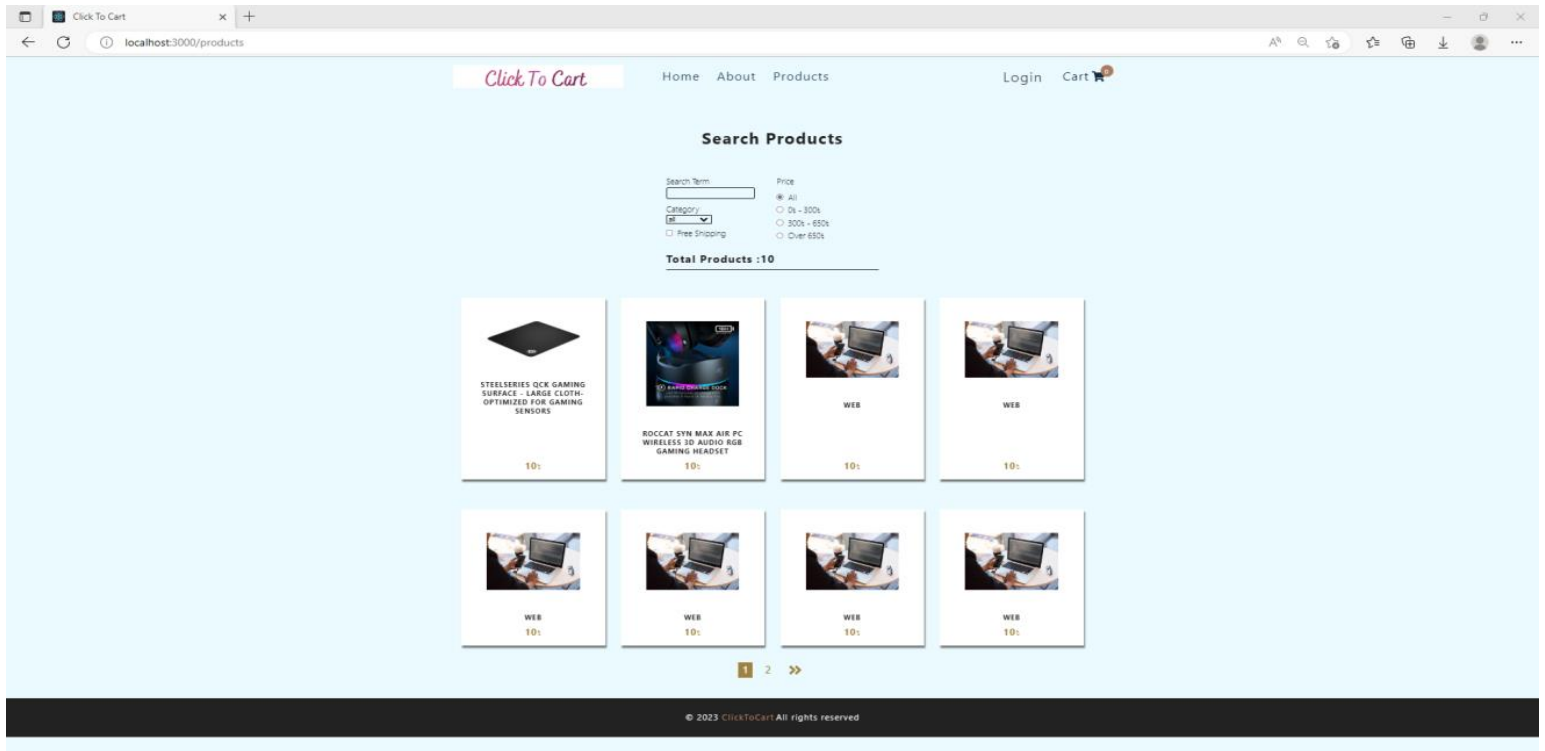



Fig 4.3 : Products Page

4.4 Register Page

Click To Cart

Home About Products

Login Cart  0

Register

Email

Password

Username

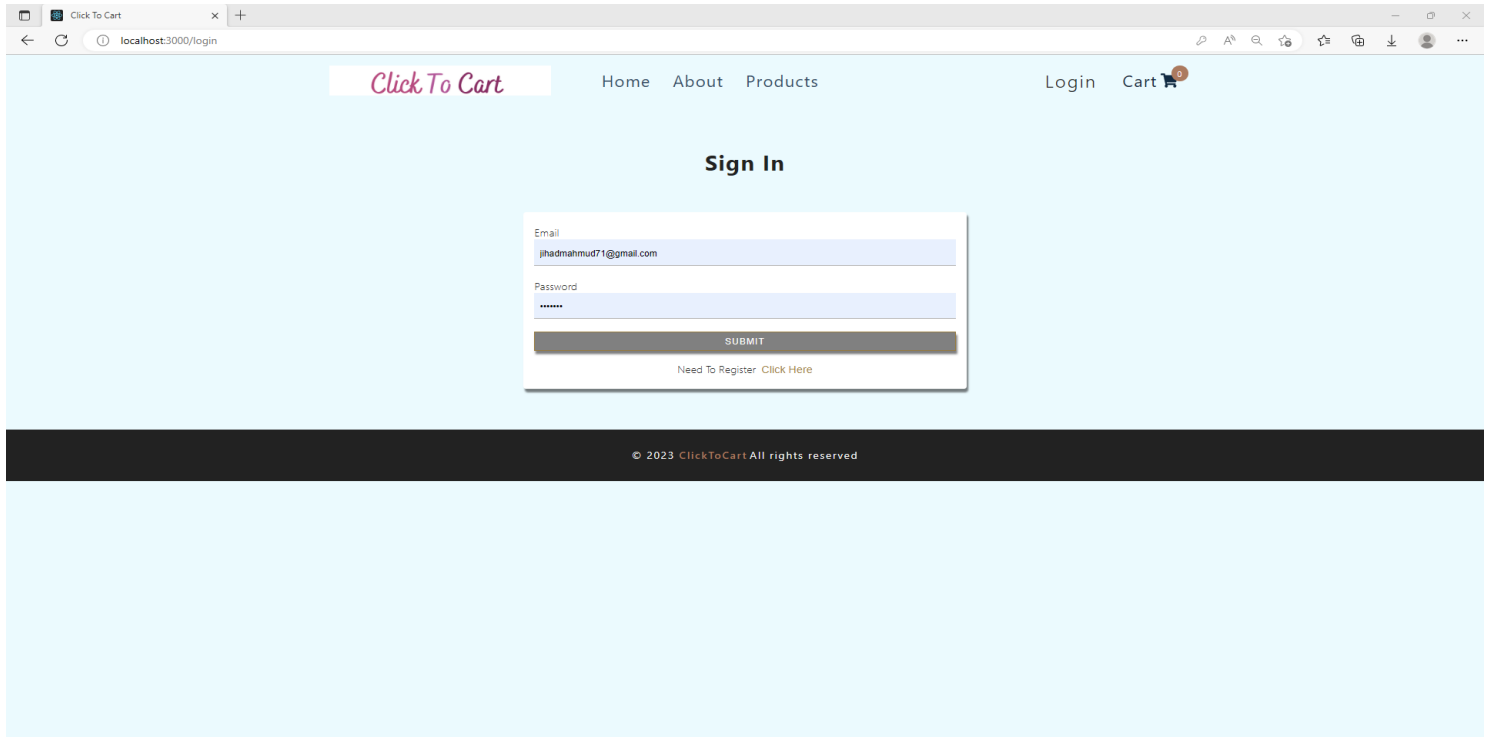
Please Fill Out All Form Fields

Already A Member [Click Here](#)

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4.4 Register Page


4.5 Login Page




4.5 Login Page

4.6 Cart Page

Click To Cart

Home About Products Login Cart  2

Your Cart

	ROCCAT Syn Max Air PC Wireless 3D Audio RGB Gaming Headset	2
	10 \$	
	remove	

Total : 20 \$

[LOGIN](#)

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4.6 Cart Page

CHAPTER 5

CONCLUSION AND FUTURE SCOPE

5.1 Conclusion

In general, businesses nowadays must constantly work to produce what customers want because they expect their goods and services to get better, faster, and more affordable over time. Businesses must adjust to new consumer trends and wants in this age of technology if they want to succeed and remain in operation. As technology advances, e-commerce is advancing and growing in significance for businesses; it should be utilized and put into practice.

There are now countless opportunities available to both businesses and consumers thanks to the Internet and e-commerce expanding the window of opportunity for companies to flourish and make a profit, while giving consumers more choices. E-commerce does, however, have some drawbacks, such as consumer uncertainty, like everything else. Nevertheless, these drawbacks can all be resolved or avoided with wise business decisions.

When launching an e-commerce business, several factors and variables need to be taken into account and chosen. Types of e-commerce, marketing techniques, and a host of other things are a few of these. A company will flourish with great success and profitability in an e-commerce environment if the appropriate procedures and practices are followed.

5.2 Future Scope

When launching an e-commerce business, several factors and variables need to be taken into account and chosen. Types of e-commerce, marketing techniques, and a host of other things are a few of these. A company will flourish with great success and profitability in an e-commerce environment if the appropriate procedures and practices are followed. To give customers a clear notion, online stores now include thorough product descriptions.

There are a lot of websites that provide customer reviews. This encourages additional prospective clients. Due to it being simple to pay online, this makes it simpler. E-commerce's reach appears to continue expanding indefinitely. Since globalization made it easier to ship goods around the world, we have witnessed the growth of online commerce. The expansion of online businesses today appears to have been further aided by Covid.

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