



**A Minor Project Report**  
**On**  
**“E-COMMERCE WEBSITE”**  
**(FOR ONLINE SHOPPING)**  
**Bachelor of Technology**  
**in**  
**Computer Engineering**

Submitted By

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**Under the Guidance of**  
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**Department Of Computer Engineering**  
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**Aligarh Muslim University**  
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**Aligarh (India)-202002**  
**2022-2023**



Dated.....

## Declaration

The work presented in project entitled “**E-Commerce Website**” (For Online Shopping) submitted to the Department of Computer Engineering, Zakir Husain College of Engineering and Technology, Aligarh Muslim University Aligarh, in partial fulfilment for the award of the degree of Bachelor of Technology in Computer Engineering, during the session 2022-23, is my original work. I have neither plagiarized nor submitted the same work for the award of any degree.

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(Signature)



Date.....

## Certificate

This is to certify that the Project Report entitled “**E-Commerce Website**” (For Online Shopping), being submitted by “**Akmal Ahmad**” and “**Tanzeelur Rahman**”, in partial fulfilment of the requirements for the award of the degree of Bachelor of Technology in Computer Engineering, during the session 2022-23, in the Department of Computer Engineering, Zakir Husain College of Engineering and Technology, Aligarh Muslim University, Aligarh. As a part of the curriculum, is a record of candidate’s own work carried out by him under my supervision and guidance. They devoted themselves to complete the work with zeal and enthusiasm.

Guided and Supervised

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Aligarh, 202002.

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# ABSTRACT

The primary goal of our E-Commerce website is to sell goods and services online. This project is a web-based shopping system for an existing shop. Sellers want to sell their product at an affordable price without unnecessary taxes.

The primary objective of our B2C E-Commerce website is to reach maximum customers at the right time to increase sales and profitability of the business. The main advantage of e-commerce over traditional commerce is the user can browse online shops, compare prices and order merchandise sitting at home on their PC.

For the welfare of community in general Customer find better products during online shopping and save time. To spread the small scale retails into large level business. In simple to provide is a big opportunity for small vendors to huge traffic of customers.

For increasing the use of e-commerce in developing countries the B2B e-commerce is implemented for improving access to global markets for firms in developing countries. For a developing country advancement in the field of e-commerce is essential. The research strategy shows the importance of the e-commerce in developing countries for businesses.

# ACKNOWLEDGEMENTS

First of all, I would like to thank almighty **Allah** for everything. I would also like to express my gratitude and appreciation to all those who gave me the possibility to complete this report. Special thanks to my supervisor **Mr. Sayyed Usman Ahmad Sir**, Assistant Professor, Department of Computer Engineering, Zakir Hussain College of Engineering and Technology, AMU. whose help stimulating suggestions and encouragement helped us in all time of fabrication process and in doing this project. I also sincerely thanks for the time spent proofreading and correcting my many mistakes. I would also like to acknowledge with much appreciation the crucial role of all lecturer and supervisors who have given their full effort in guiding the team in achieving the goal as well as their encouragement to maintain our progress in track. My profound thanks go to all classmates, especially to my friends for spending their time in helping and giving support whenever I need it in fabricating my project.

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# Chapter 1 Introduction

E-Commerce is type of business transaction that involves buying and selling goods; and services online without using the hard currencies. It is also known as internet banking or electronic commerce. The online platforms which support E-Commerce are referred to as E-Commerce website. An e-commerce website is one that allows people to buy and sell physical goods, services, and digital products over the internet rather than at a brick-and-mortar location.

B2C business-to-consumer ecommerce, also called retail ecommerce, is a business model that involves sales between online businesses and consumers. Through an e-commerce website, a business can process orders, accept payments, manage shipping and logistics, and provide customer service. The primary objective of our B2C E-Commerce website is to reach maximum customers at the right time to increase sales and profitability of the business.

## 1.1 Motivation

The primary motivation of our B2C E-Commerce website is Easy to spread business across countries helps to increase our national income, reach maximum customers at the right time to increase sales and profitability of the business. for the welfare of our community in general Customer find better products during online shopping and save time, to spread the small scale retails into large level business in simple to provide is a big opportunity for small vendors to huge traffic of customers.

## 1.2 Objectives

Main objectives of E-Commerce are as follows.

### 1.2.1 Reducing the management cost:

Businesses aim at reducing the costs incurred for the betterment of their revenue. Automating the e-commerce business can help in reducing the management cost significantly. Right use of digital marketing can help in reducing the cost spent on driving customers to such an extent that businesses can bring customers for free of cost.

### 1.2.2 Developing business relations:

With ecommerce as the primary use, business development can be easily achieved. The direct communication between a company and the customer, the business relationship can be boosted. Eventually, the ecommerce market shall be expanded.

### **1.2.3 Increasing the number of loyal customers:**

Customers are the core of all business strategies. Therefore, ensuring the great customer experience is of prime importance for the growth of the business. You need to meet your customers where they spend their time. More than 60% of consumers look for purchasing goods and services online. If you meet your customers where they are already active, the chances of them, interacting with your business increases two folds. You can increase the number of loyal customers by giving the best experience to your already existing customers as well as bring in newer customers.

### **1.2.4 Making responsive E-Commerce website:**

With the increasing use of smart phones for shopping online, it has become more than mandatory for ecommerce businesses to go mobile. Apart from creating a native mobile app, we need to create a responsive ecommerce website. It is one of the major objectives of all leading ecommerce businesses. By responsive, it means to create a website that can be viewed from any devices of varying screen size, equally. Studies say that Google may next rank a website based on its mobile website. It means that any website that has a responsive design would be ranked on top of the website that does not have one. Making your ecommerce website responsive can help you optimize it. A mobile-friendly website earns more traffic than the rest.

### **1.2.5 Increasing sales:**

The objective of increasing sales will always remain continuous and constant for an E-Commerce business. In order to thrive in the ecommerce industry, we need to boost our sales, constantly. All other objectives are zeroed down to make this objective happen. However, you also need to look into our past store analytics and figure out the marketing tactics that have worked well for to increase sales. Although these objectives could help to gaining sales, nothing can beat the tried and tested marketing tactics for our business. For instance, the products that are sold the most, ideally the best seller can be used for remarketing and grab more attention. Any marketing strategy we used earlier including the email targeting and traffic boosting tactics must be revisited and worked upon to increase sales. Based on the above-mentioned objectives and the marketing tactics that actually worked for you, we need to design our marketing plan. Only we can decide what is perfect for our business and what is not. Every business is unique.

## 1.3 Scope

There is a high scope of E-commerce in each aspect of business. E-commerce would be the part of day to day activities of business firms. The scope of ecommerce is really good now and in the future also because of more number of online users on the internet, Our company is selling goods or services online to the general public typically through an E-Commerce website or mobile application, directly to consumers over the Internet. Another significant contributor to the future scope of E-Commerce website in India is the E-tailing industry which largely deals in providing jewellery apparel, and kitchen appliances online. Effective E-Commerce web development can give our potential customers a good impression of our brand which can encourage them to stay longer on our site.

## 1.4 Tool and Techniques

- **XAMPP Control Panel**
- **MySQL**
- **Php**
- **HTML**
- **CSS**
- **JAVA SCRIPT**



Figure 1.4.1 Tool and Techniques

## Chapter 2

# OUR PROJECT OVERVIEW

### 2.1 Function Block Diagram of E-Commerce website

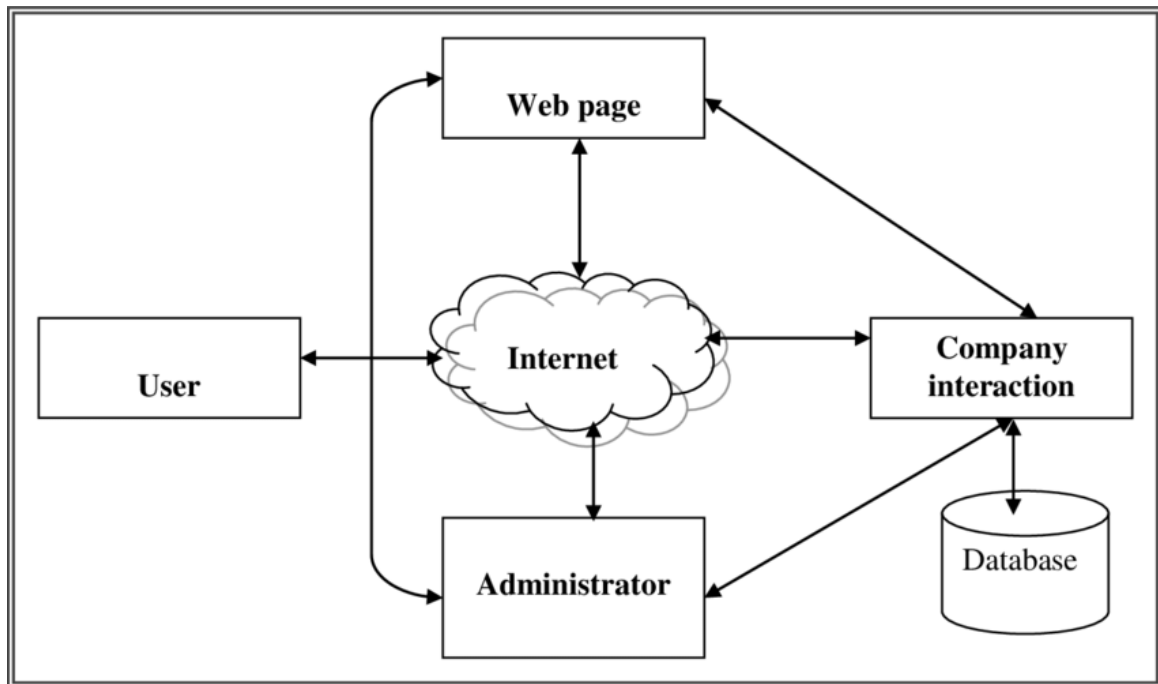


Fig 2.1.1 Function Block Diagram DFD

### 2.2 Pictorial View of E-Commerce



Fig 2.2.1 Pictorial View of E-Commerce

## 2.3 UML Class Diagram

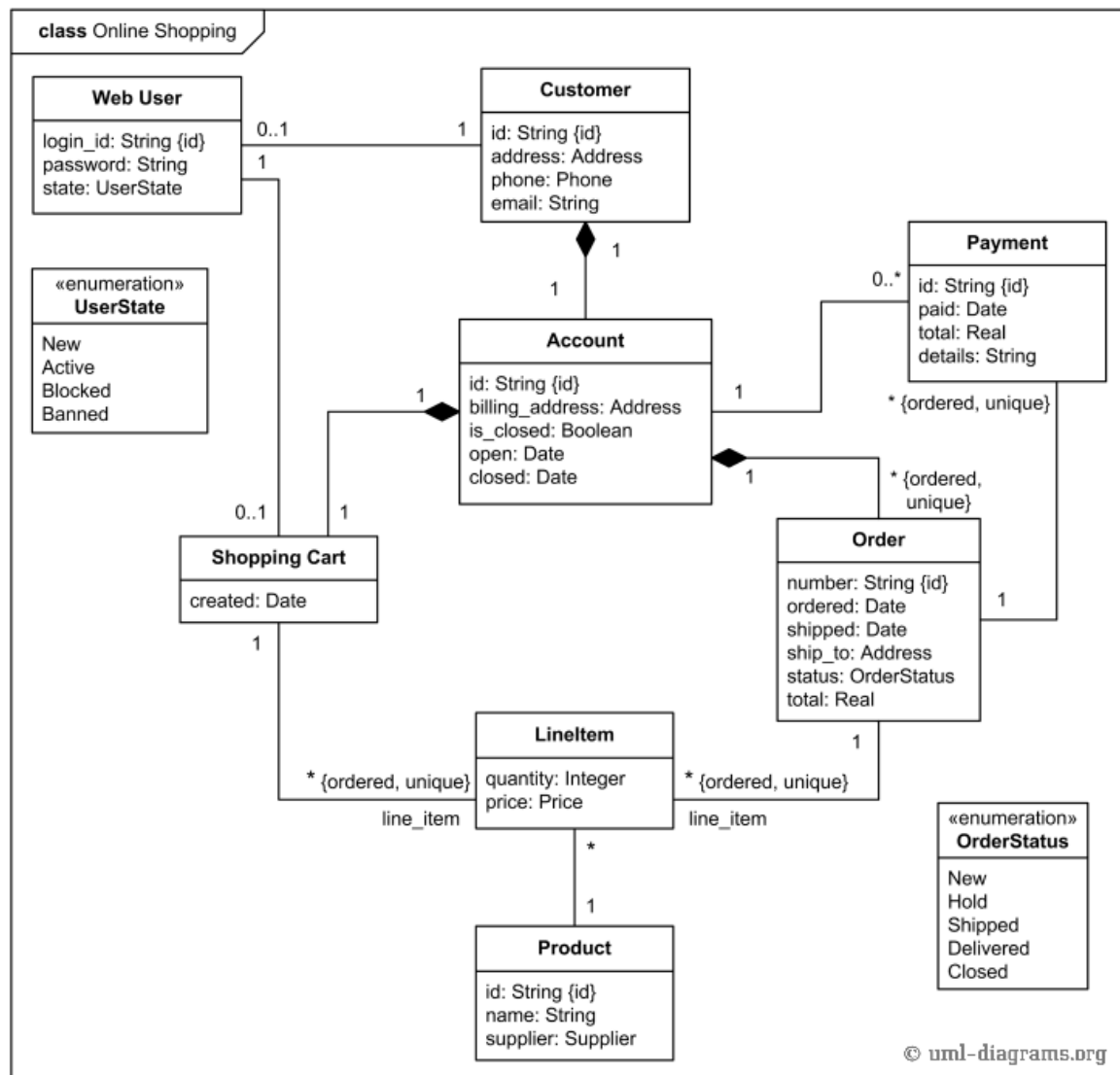


Fig 2.3.1 UML Class Diagram

## 2.4 UML Explanation

Here we have provided an example of UML class diagram which shows a domain model for online shopping. The purpose of the diagram is to introduce some common terms, "dictionary" for online shopping - Customer, Web User, Account, Shopping Cart, Product, Order, Payment, etc. and relationships between. It could be used as a common ground between business analysts and software developers.

Each customer has unique id and is linked to exactly one account. Account owns shopping cart and orders. Customer could register as a web user to be able to buy items online. Customer is not required to be a web user because purchases could also be made by phone or by ordering from catalogues.

## 2.5 DFD B2C Customer Service

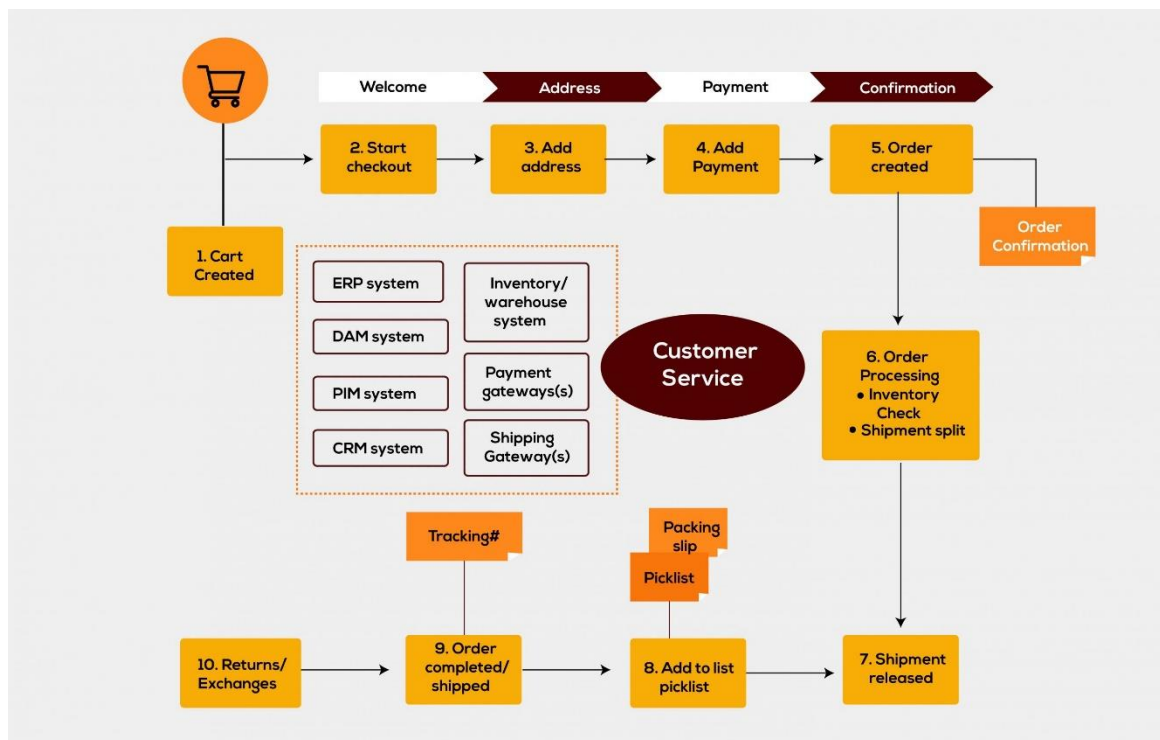


Figure 2.5.1 DFD B2C Customer Service

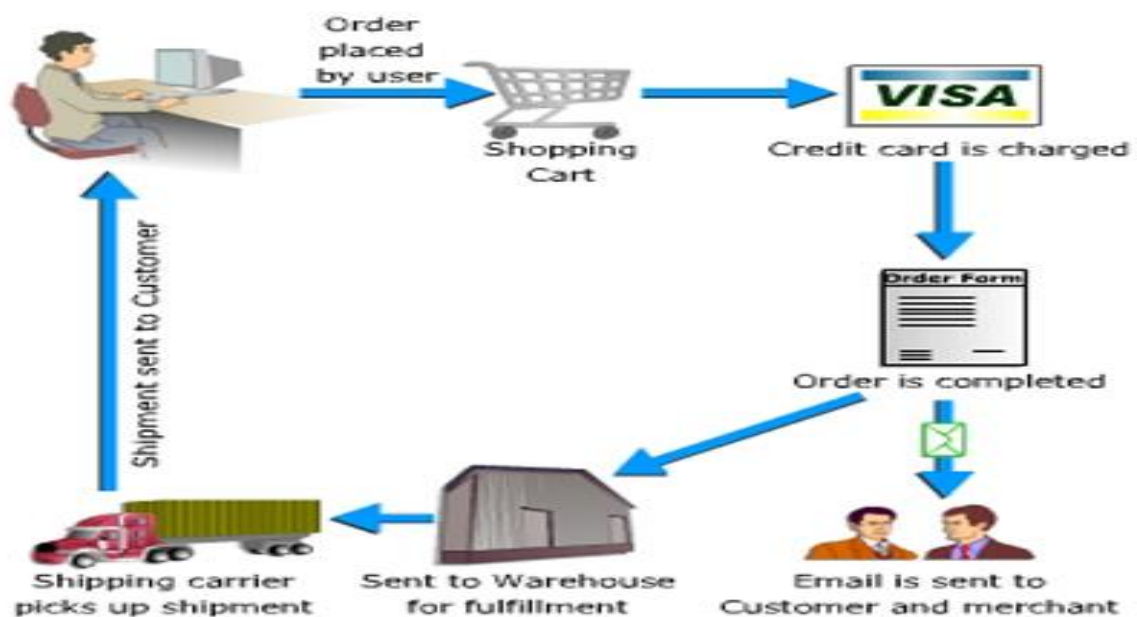


Figure 2.5.2 Flow diagram order place by user

# Chapter3

## Overall Website Description

### 3.1 Website Home Page

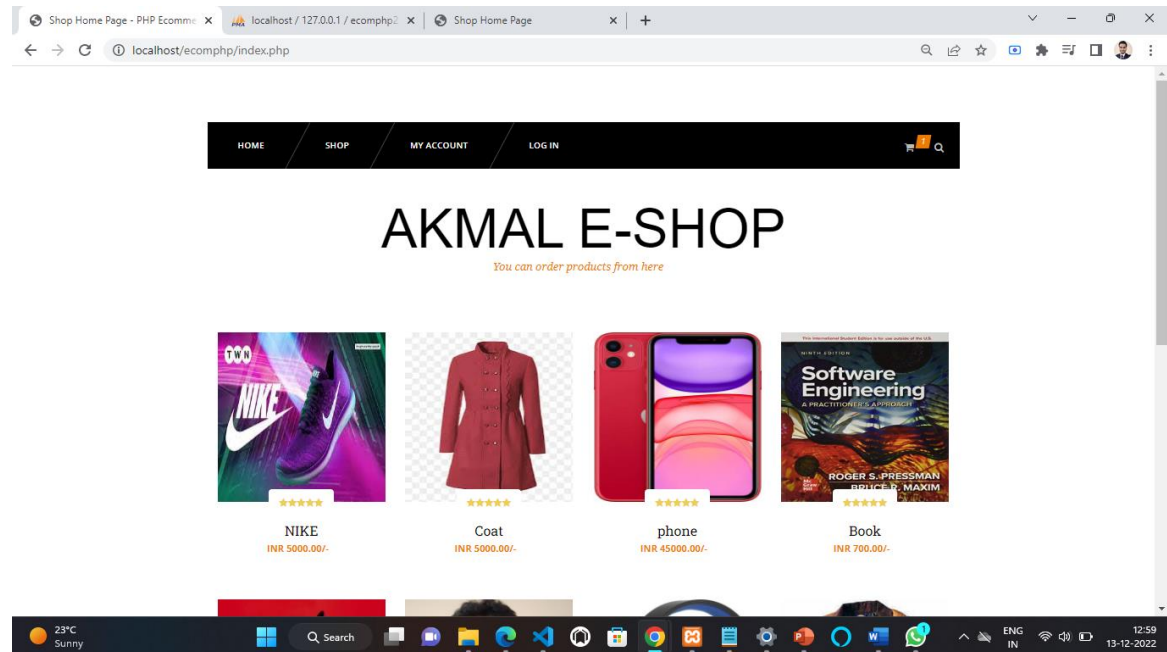


Figure 3.1.1 Website Home Page

### 3.2 Login Page

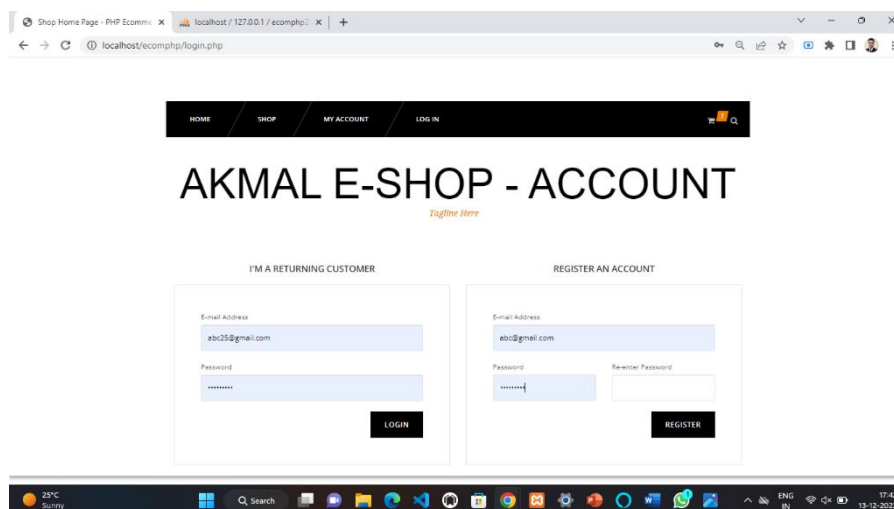


Figure 3.2.1 Login Page

### 3.3 Product Page

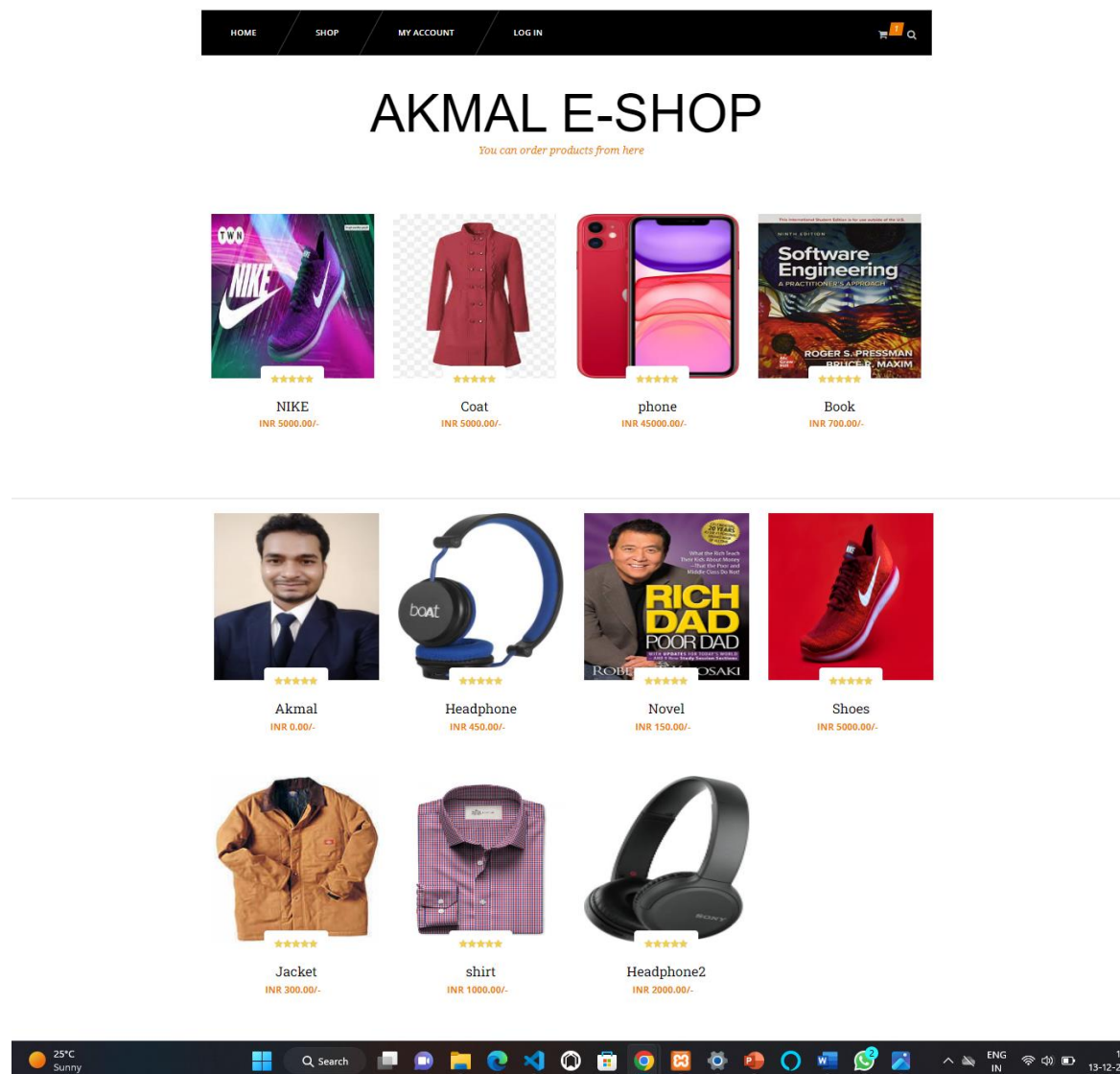
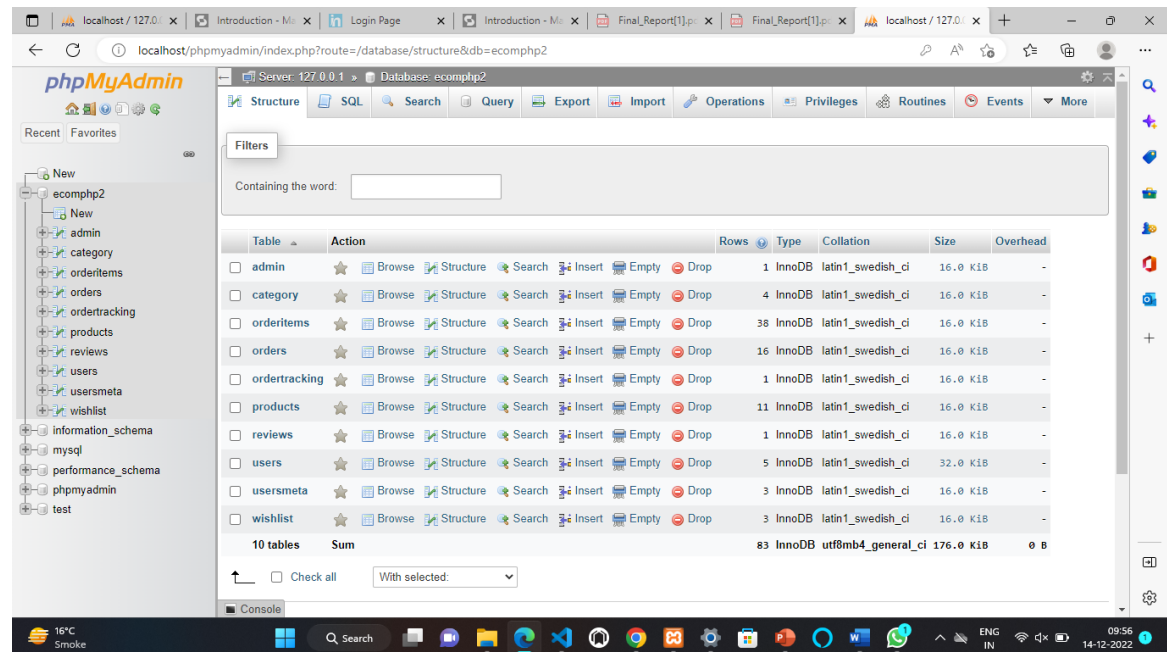


Figure 3.3.1 Product Page



## 3.4 Website Back-End Database

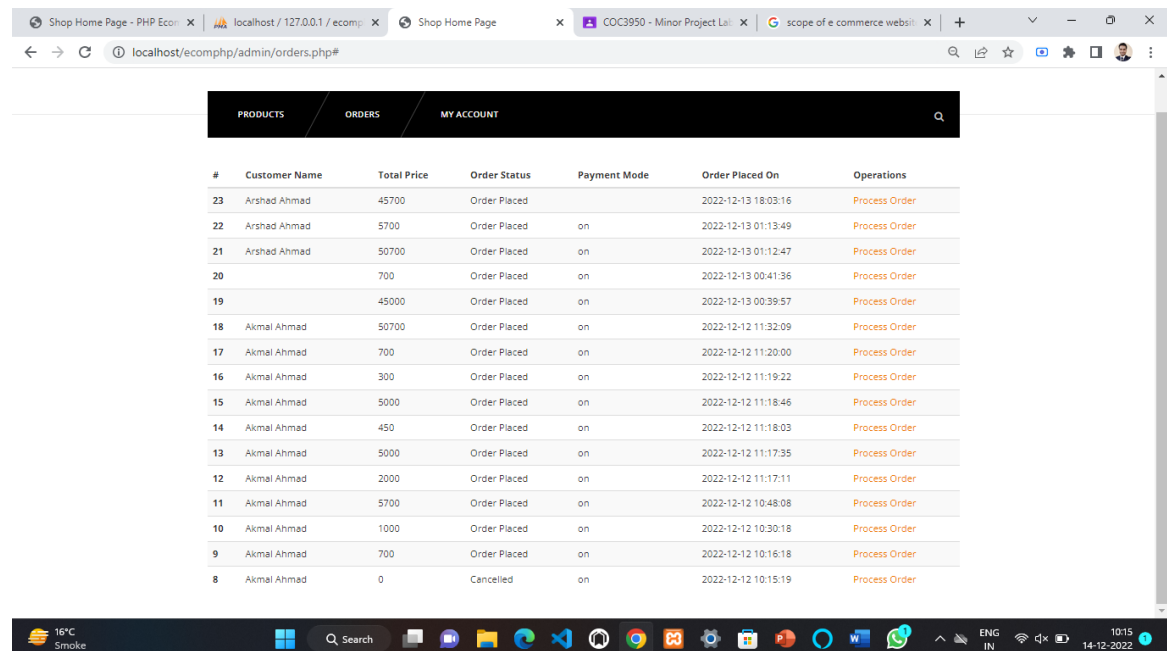


The screenshot shows the phpMyAdmin interface for a database named 'ecomphp2'. The left sidebar lists the database and its tables: admin, category, orderitems, orders, ordertracking, products, reviews, users, usersmeta, and wishlist. The main panel displays the 'Structure' tab for the 'ecomphp2' database. It shows a list of 10 tables with their respective actions (Browse, Structure, Search, Insert, Empty, Drop) and details (Rows, Type, Collation, Size, Overhead). The tables are: admin (1 row, InnoDB, latin1\_swedish\_ci, 16.0 KIB), category (4 rows, InnoDB, latin1\_swedish\_ci, 16.0 KIB), orderitems (38 rows, InnoDB, latin1\_swedish\_ci, 16.0 KIB), orders (16 rows, InnoDB, latin1\_swedish\_ci, 16.0 KIB), ordertracking (1 row, InnoDB, latin1\_swedish\_ci, 16.0 KIB), products (11 rows, InnoDB, latin1\_swedish\_ci, 16.0 KIB), reviews (1 row, InnoDB, latin1\_swedish\_ci, 16.0 KIB), users (5 rows, InnoDB, latin1\_swedish\_ci, 32.0 KIB), usersmeta (3 rows, InnoDB, latin1\_swedish\_ci, 16.0 KIB), and wishlist (3 rows, InnoDB, latin1\_swedish\_ci, 16.0 KIB). A summary row at the bottom indicates 10 tables with a total size of 176.0 KIB.

Table	Action	Rows	Type	Collation	Size	Overhead
admin	Browse Structure Search Insert Empty Drop	1	InnoDB	latin1_swedish_ci	16.0 KIB	-
category	Browse Structure Search Insert Empty Drop	4	InnoDB	latin1_swedish_ci	16.0 KIB	-
orderitems	Browse Structure Search Insert Empty Drop	38	InnoDB	latin1_swedish_ci	16.0 KIB	-
orders	Browse Structure Search Insert Empty Drop	16	InnoDB	latin1_swedish_ci	16.0 KIB	-
ordertracking	Browse Structure Search Insert Empty Drop	1	InnoDB	latin1_swedish_ci	16.0 KIB	-
products	Browse Structure Search Insert Empty Drop	11	InnoDB	latin1_swedish_ci	16.0 KIB	-
reviews	Browse Structure Search Insert Empty Drop	1	InnoDB	latin1_swedish_ci	16.0 KIB	-
users	Browse Structure Search Insert Empty Drop	5	InnoDB	latin1_swedish_ci	32.0 KIB	-
usersmeta	Browse Structure Search Insert Empty Drop	3	InnoDB	latin1_swedish_ci	16.0 KIB	-
wishlist	Browse Structure Search Insert Empty Drop	3	InnoDB	latin1_swedish_ci	16.0 KIB	-
10 tables Sum		83	InnoDB	utf8mb4_general_ci	176.0 KIB	0 B

Figure 3.4.1 Website Back-End Database

## 3.5 Admin Page

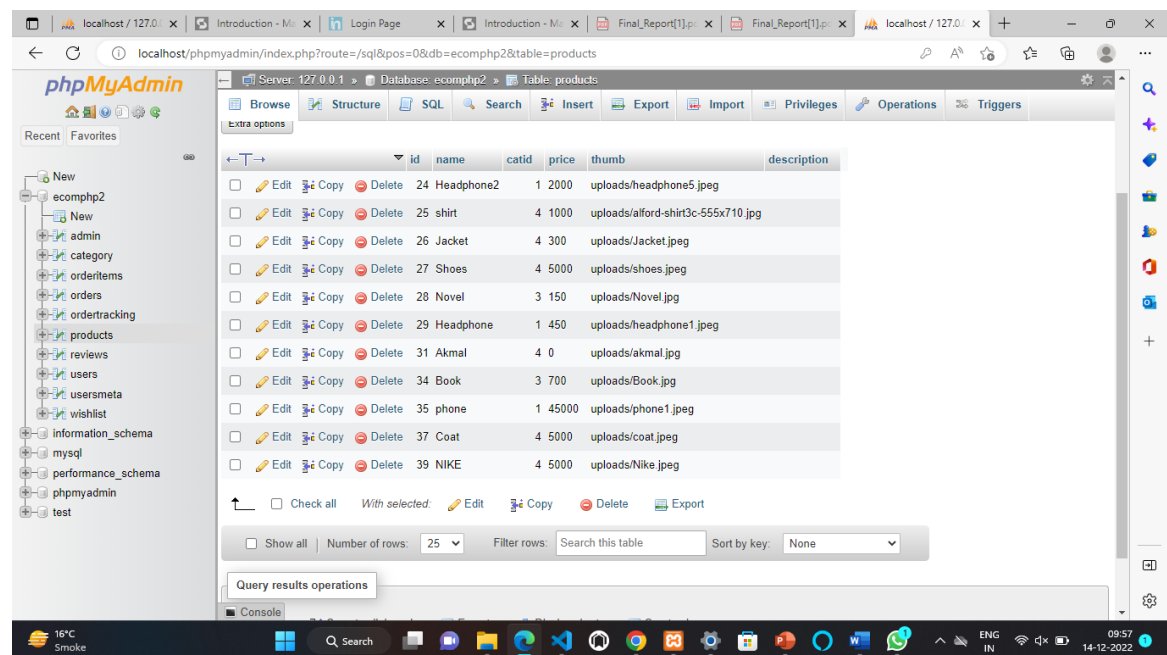


The screenshot shows the Admin Page of the website. The top navigation bar includes 'PRODUCTS', 'ORDERS', and 'MY ACCOUNT'. The 'ORDERS' tab is selected. The main content area displays a table of orders with columns: #, Customer Name, Total Price, Order Status, Payment Mode, Order Placed On, and Operations. The table lists 19 orders, with the first 18 being 'Order Placed' and the last one being 'Cancelled'. Each order has a 'Process Order' link in the 'Operations' column.

#	Customer Name	Total Price	Order Status	Payment Mode	Order Placed On	Operations
23	Arshad Ahmad	45700	Order Placed		2022-12-13 18:03:16	Process Order
22	Arshad Ahmad	5700	Order Placed	on	2022-12-13 01:13:49	Process Order
21	Arshad Ahmad	50700	Order Placed	on	2022-12-13 01:12:47	Process Order
20		700	Order Placed	on	2022-12-13 00:41:36	Process Order
19		45000	Order Placed	on	2022-12-13 00:39:57	Process Order
18	Akmal Ahmad	50700	Order Placed	on	2022-12-12 11:32:09	Process Order
17	Akmal Ahmad	700	Order Placed	on	2022-12-12 11:20:00	Process Order
16	Akmal Ahmad	300	Order Placed	on	2022-12-12 11:19:22	Process Order
15	Akmal Ahmad	5000	Order Placed	on	2022-12-12 11:18:46	Process Order
14	Akmal Ahmad	450	Order Placed	on	2022-12-12 11:18:03	Process Order
13	Akmal Ahmad	5000	Order Placed	on	2022-12-12 11:17:35	Process Order
12	Akmal Ahmad	2000	Order Placed	on	2022-12-12 11:17:11	Process Order
11	Akmal Ahmad	5700	Order Placed	on	2022-12-12 10:48:08	Process Order
10	Akmal Ahmad	1000	Order Placed	on	2022-12-12 10:30:18	Process Order
9	Akmal Ahmad	700	Order Placed	on	2022-12-12 10:16:18	Process Order
8	Akmal Ahmad	0	Cancelled	on	2022-12-12 10:15:19	Process Order

Figure 3.5.1 Admin Page

## 3.6 Product Database Page

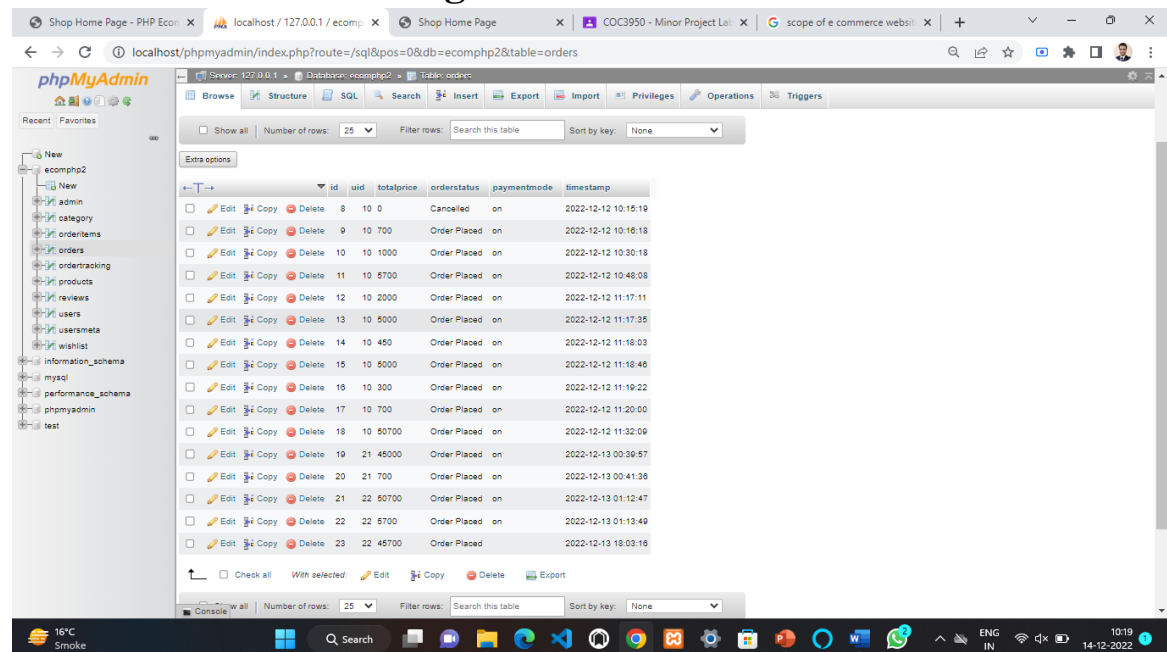


The screenshot shows the phpMyAdmin interface with the 'products' table selected in the 'ecomphp2' database. The table has columns: id, name, catid, price, thumb, and description. The table contains 12 rows of product data. The interface includes a sidebar with a database structure tree, a top navigation bar with various actions (Browse, Structure, SQL, etc.), and a bottom status bar showing system information.

id	name	catid	price	thumb	description
24	Headphone2	1	2000	uploads/headphone5.jpeg	
25	shirt	4	1000	uploads/alford-shirt3c-555x710.jpg	
26	Jacket	4	300	uploads/Jacket.jpeg	
27	Shoes	4	5000	uploads/shoes.jpeg	
28	Novel	3	150	uploads/Novel.jpg	
29	Headphone	1	450	uploads/headphone1.jpeg	
31	Akmal	4	0	uploads/akmal.jpg	
34	Book	3	700	uploads/Book.jpg	
35	phone	1	45000	uploads/phone1.jpeg	
37	Coat	4	5000	uploads/coat.jpeg	
39	NIKE	4	5000	uploads/Nike.jpeg	

Figure 3.6.1 Product Database Page

## 3.7 Orders Database Page



The screenshot shows the phpMyAdmin interface with the 'orders' table selected in the 'ecomphp2' database. The table has columns: id, uid, totalprice, orderstatus, paymentmode, and timestamp. The table contains 15 rows of order data. The interface includes a sidebar with a database structure tree, a top navigation bar with various actions (Browse, Structure, SQL, etc.), and a bottom status bar showing system information.

id	uid	totalprice	orderstatus	paymentmode	timestamp
8	10	0	Cancelled	on	2022-12-12 10:15:19
9	10	700	Order Placed	on	2022-12-12 10:16:18
10	10	1000	Order Placed	on	2022-12-12 10:30:18
11	10	5700	Order Placed	on	2022-12-12 10:48:08
12	10	2000	Order Placed	on	2022-12-12 11:17:11
13	10	5000	Order Placed	on	2022-12-12 11:17:35
14	10	450	Order Placed	on	2022-12-12 11:18:03
15	10	5000	Order Placed	on	2022-12-12 11:18:46
16	10	300	Order Placed	on	2022-12-12 11:19:22
17	10	700	Order Placed	on	2022-12-12 11:20:00
18	10	50700	Order Placed	on	2022-12-12 11:32:09
19	21	45000	Order Placed	on	2022-12-13 00:39:57
20	21	700	Order Placed	on	2022-12-13 00:41:38
21	22	50700	Order Placed	on	2022-12-13 01:12:47
22	22	5700	Order Placed	on	2022-12-13 01:13:49
23	22	45700	Order Placed	on	2022-12-13 18:03:18

Figure 3.7.1 Order Database Page

### 3.8 Shop Cart Page

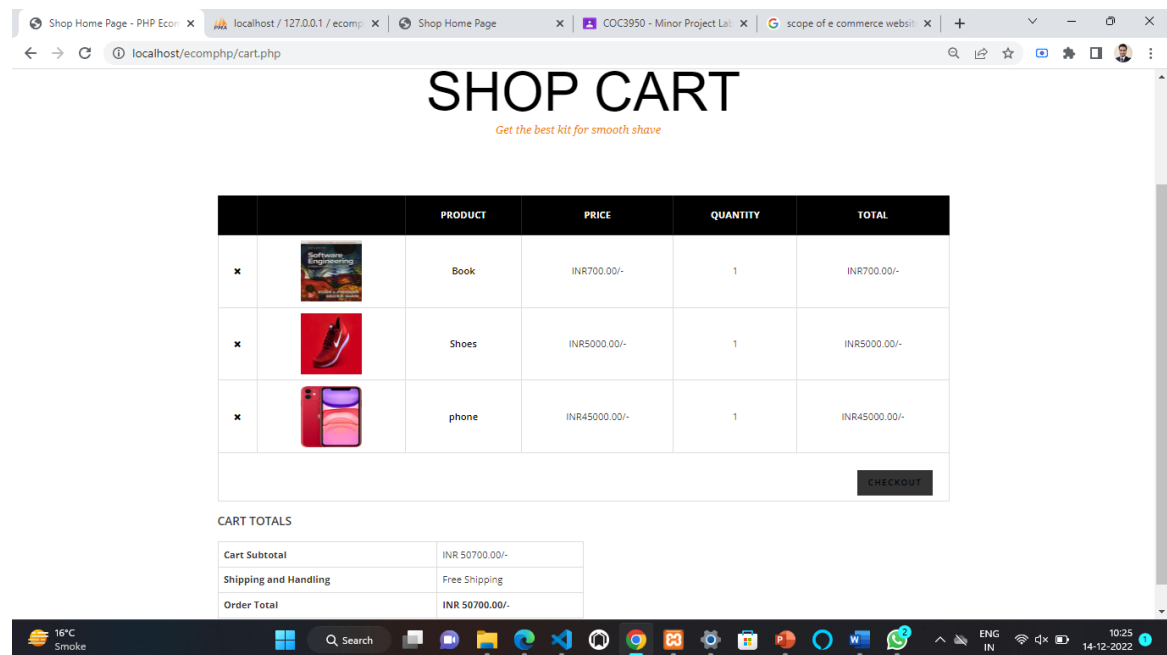


Figure 3.8.1 Shop Cart Page

### 3.9 Shop Checkout page

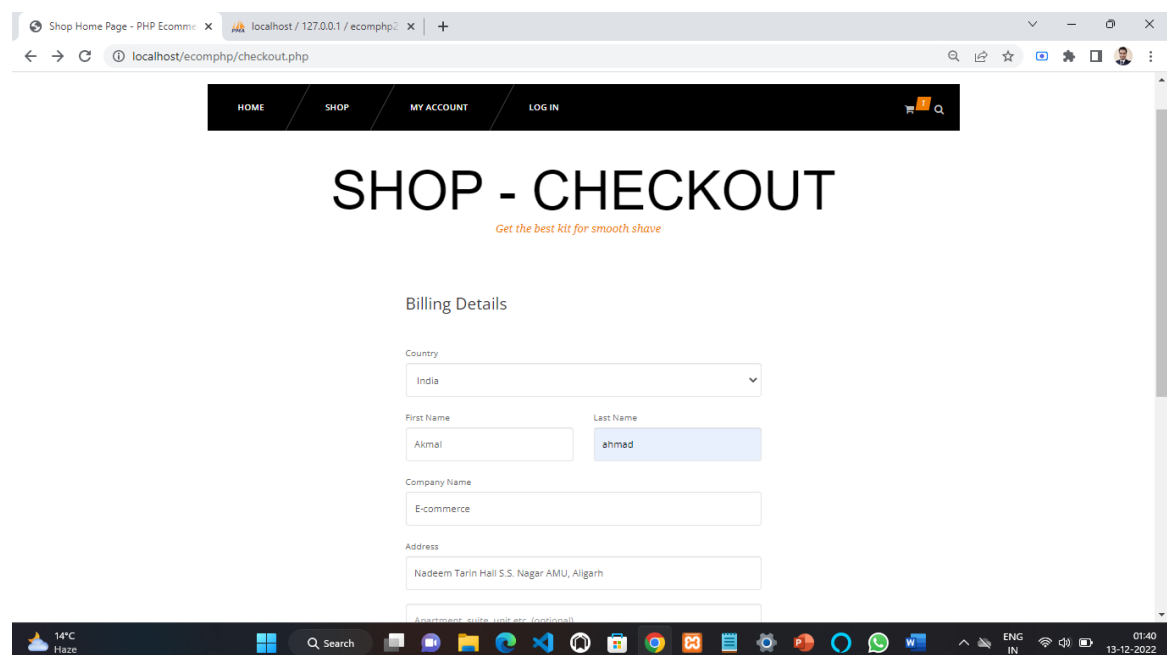


Figure 3.9.1 Shop Checkout Page

### 3.10 Payment E-Card

Payment Details

Checkout Amount  
INR 5450.00/-

Card Holder  
AKMAL AHMAD

Card Number  
5286 7752 4700 3925

Expiration Date  
12 / 25

Val Code  
892

5286 7752 4700 3925  
AKMAL AHMAD 12 / 25

Authorize

Successful Payment

Subscription Value  
INR 5450.00/-

Payment Status  
Successful

Continue to Account →

Payment system both domestic and international.

Figure 3.10.1 Payment E-Card

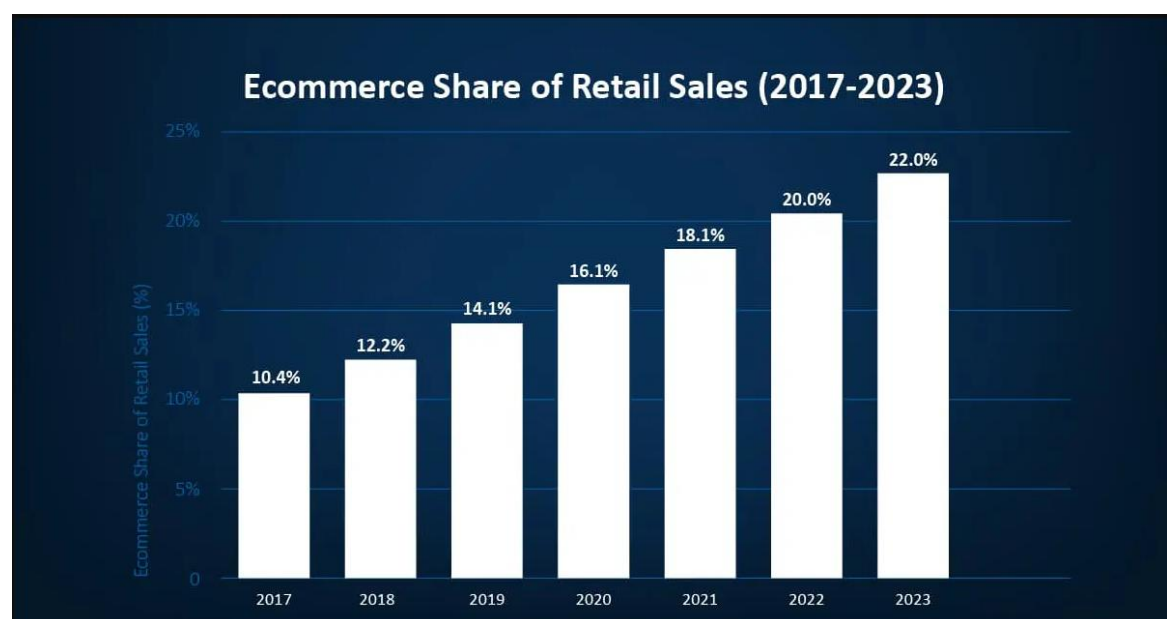


Fig 3.10.2 Ecommerce share of Retail Sales (2017-2023)

# Chapter 4

## Conclusion E-Commerce Website

### 4.1 Conclusion

E-Commerce has undeniably become an important part of our society. The successful companies of the future will be those that take E-Commerce seriously, dedicating sufficient resources to its development. E-Commerce is not an IT issue but a whole business undertaking. Companies that use it as a reason for completely re-designing their business processes are likely to reap the greatest benefits. Moreover, E-Commerce is a helpful technology that gives the consumer access to business and companies all over the world.

Technology has made significant progress over the years to provide consumers a better online shopping experience and will continue to do so for years to come. With the rapid growth of products and brands, people have speculated that online shopping will overtake in-store shopping. At the end, it has been a win-win situation for both consumer and sellers.

Use the extensive E-Commerce in the Internet world is actually much better to bring the goodness of the individual or the state.

### 4.2 Advantages of Online Shopping

- Online shopping is convenient and easy to use.
- Bigger variety of products are available and high levels of flexibility.
- Location-independent as long as there is an internet connection.
- You can order anytime what product you want.
- Easier price comparisons other local markets.
- You don't have to be in overcrowded stores.
- Avoidance of sales staff who wants to market products to you.
- You can read plenty of reviews before buying products.
- You might find better products during your online research.
- Shopping online can save you plenty of time.
- Higher chance for discounts and coupons.
- Online shopping provides privacy concern during online transition.

# Chapter 5

## References

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- <https://www.javatpoint.com/creating-mysql-database-with-xampp>
- <https://mailchimp.com/marketing-glossary/ecommerce-website/>
- Book An Introduction to Database system by C.J. DATE