

# E-MART

CSD334-Mini Project 2022

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## **C E R T I F I C A T E**

This is to certify that, this report titled ***E-MART*** is a bonafide record of the work done by **20CSA34 MDL20CS060 Jaison Dennis** , **Fifth Semester** B. Tech. Computer Science & Engineering student, for the course work in **CSD334-Mini Project 2022** which is the Mini Project Work, under our guidance and supervision, in partial fulfillment of the requirements for the award of the degree, B. Tech. Computer Science and Engineering of **APJ Abdul Kalam University** .

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Jaison Dennis  
Jagannath E Shahi  
Christopher Roy

## **Abstract**

This project 'E-Mart' is an e-commerce platform which sells its goods and services online making it easier for the user to access a wide variety of items from a single platform. E-Mart allows customers to browse and purchase products from a variety of sellers through a web browser. The platform handles all aspects of the transaction, including payment processing, order fulfillment, and order tracking. The platform may also offer features such as personalized recommendations, wish lists, and reviews to help customers find the products they are looking for. Users can also add products to cart and buy them at a later time. Users can search and filter products based on price, brand and offers. Our platform is open for both end users and sellers. The goal of the platform is to create a convenient and easy-to-use shopping experience for customers, while also providing a means for sellers to reach a larger audience and grow their businesses.

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# Chapter 1

## Introduction

An online e-commerce platform is a digital marketplace that enables businesses and individuals to sell products and services to customers over the internet. The platform provides a central location for sellers to list their products, and for customers to browse and make purchases. With the increasing popularity of online shopping, the demand for convenient and reliable e-commerce platforms has grown significantly. Online shopping allows you to shop anytime, anywhere, as long as you have an internet connection. This is especially convenient for people with busy schedules or those who live in rural areas with limited access to physical stores.

It also have a much wider selection of products than traditional brick-and-mortar stores. This is because they do not have the same space constraints and can offer a larger inventory. In addition, online retailers often offer products from a variety of brands and manufacturers, giving you more options to choose from. Online retailers often have lower overhead costs, such as rent and utilities, which allows them to offer competitive prices. In addition, it is easy to compare prices from different online retailers to find the best deal. Online e-commerce platforms allow customers to leave reviews of products, which can be helpful in making informed purchasing decisions and provide valuable insights into the quality and functionality of a product, as well as any potential

issues. Online retailers often have more lenient return policies, making it easier to return or exchange items that are not satisfactory. Online e-commerce platforms can use your purchase history and browsing data to make personalized product recommendations, which can save you time and help you discover required products.

## **1.1 Proposed Project**

### **1.1.1 Problem Statement**

Many consumers still face challenges when using ecommerce platforms, particularly when accessing them through mobile apps. These challenges include a lack of user-friendliness, difficulty in finding products, high shipping costs, lengthy delivery times, and a lack of trust in the security of online payments. In addition, some consumers are hesitant to make purchases through mobile apps due to a lack of personalized recommendations or difficulty in returning or exchanging items.

### **1.1.2 Proposed Solution**

'E-Mart' aims to address these issues and provide a convenient, reliable, and secure shopping experience for customers. Our platform will feature a user-friendly interface that makes it easy to browse and search for products. We will offer a wide selection of products from various brands and manufacturers, as well as competitive prices. In addition, we will offer fast and reliable shipping options, as well as an easy returns policy. To address concerns about security, we will use industry-standard encryption techniques to protect users' personal and financial information. Finally, we will use personalized recommendations based on users' browsing and purchase history to help them discover new products and make informed purchasing decisions.

## Chapter 2

# Report of Preparatory Work

### 2.1 System Study Report

**FEASIBILITY STUDY:** System Analysis and Design Analysis involves the requirement determination and specification. First we have to analysis the obtained resources. In the E-Mart software, it includes the main module Admin. Feasibility is a test of system and proposed according to workability, impact on organization ability to meet user needs, ad effective use of resources. Following are the feasi- bility study In this regard, the following feasibility analysis was conducted.

**TECHNICAL FEASIBILITY:** This software is designed using Django (for backend) and React Js(for frontend) , this system is tech-nically feasible. Since proposed system is a web application it can be run on any system of any size and hardware the only requirement being a web browser to access the web app. All existing browsers support the proposed system.

**BEHAVIOURAL FEASIBILITY:** Some basic knowledge about the system will be given to the users. Technical knowledge is not required, moreover for the users to use the system. This system is easy to use, so it is operationally feasible.



**ECONOMICAL FEASIBILITY:** Economic analysis is the most frequently used method for evaluating the effectiveness of the system, most commonly known as cost/benefit analysis. Here, as the software is entirely online and free to use. Thus the users won't be charged for using the system and their only expenditure would be the products they buy from the platform. Hence proposed system is economical.

**PROPOSED SYSTEM:** The proposed system is better and more efficient than existing system by keeping in mind all the drawbacks of the present system to provide a permanent to them. The primary aim of the new system is to provide users a seamless ecommerce experience. This is user friendly. The main advantage of the proposed system is the user friendly and beautiful user Interface supported by fast and efficient backend server thus making it user-friendly as possible.

**EXISTING SYSTEM:** The effectiveness of the system depends on the way in which different components of the platform is organized and presented. In the existing system, the user-experience can be quite tiresome as the user flow for purchasing products is quite difficult. It is also difficult for the retailers to manage their products and services as the interface of the platform can be quite complex or even intimidating for some.

## Chapter 3

# Project Design

### 3.1 System Design

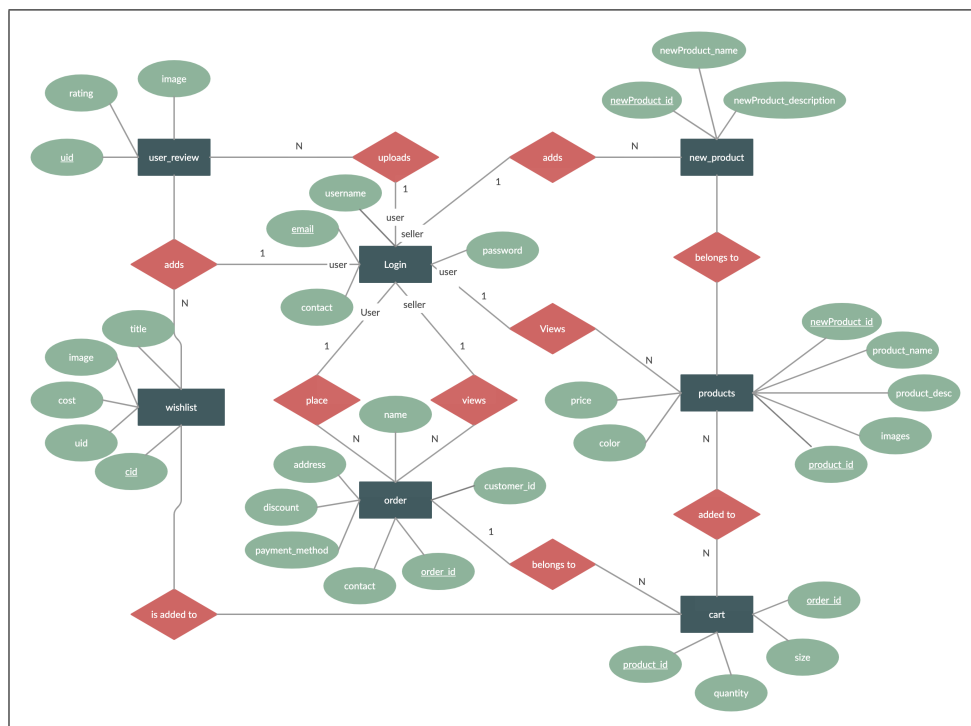


Figure 3.1: ER Diagram.

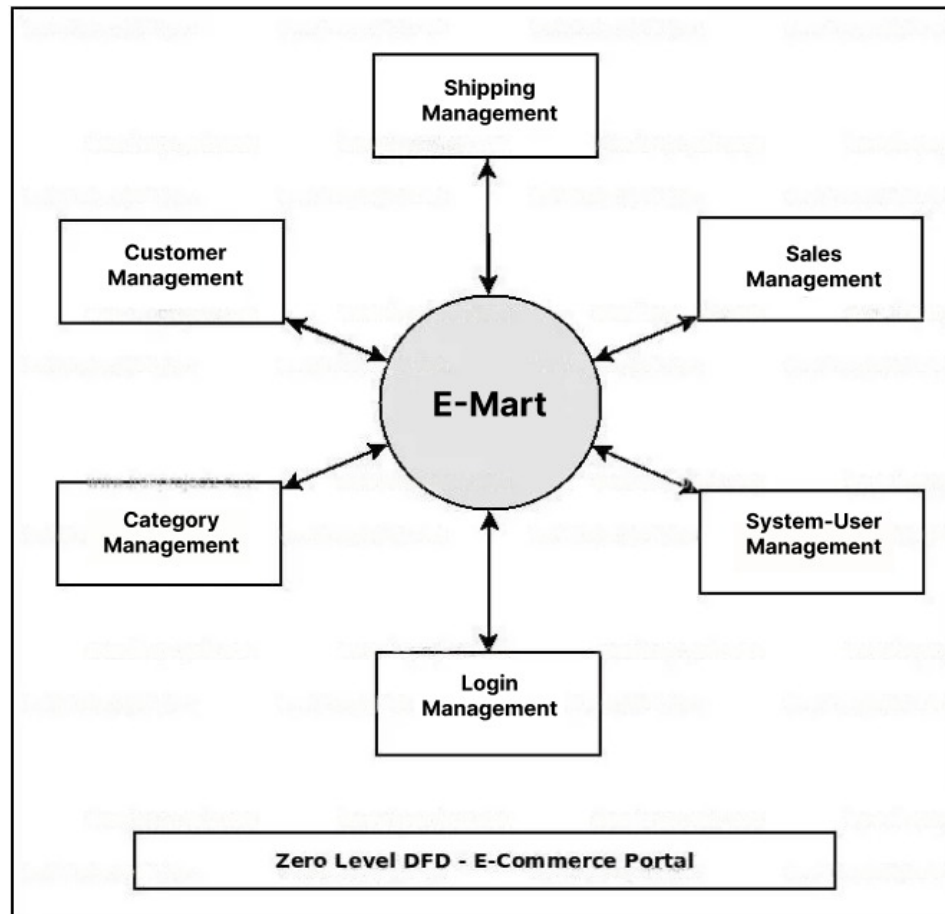


Figure 3.2: Data Flow Diagram Level 0.

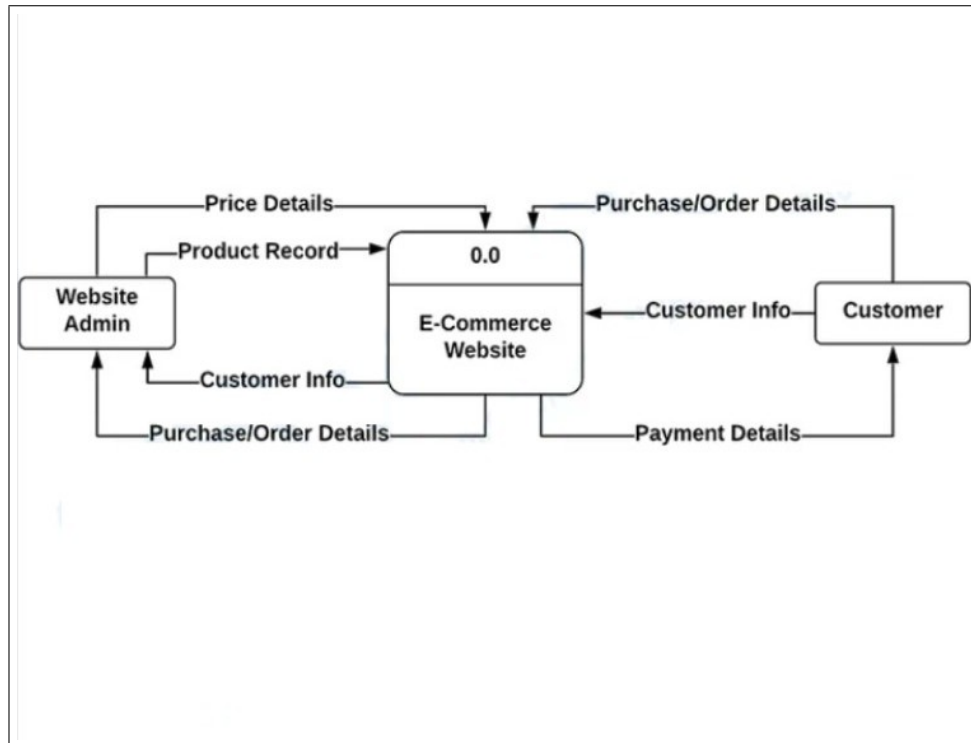


Figure 3.3: Data Flow Diagram Level 1.

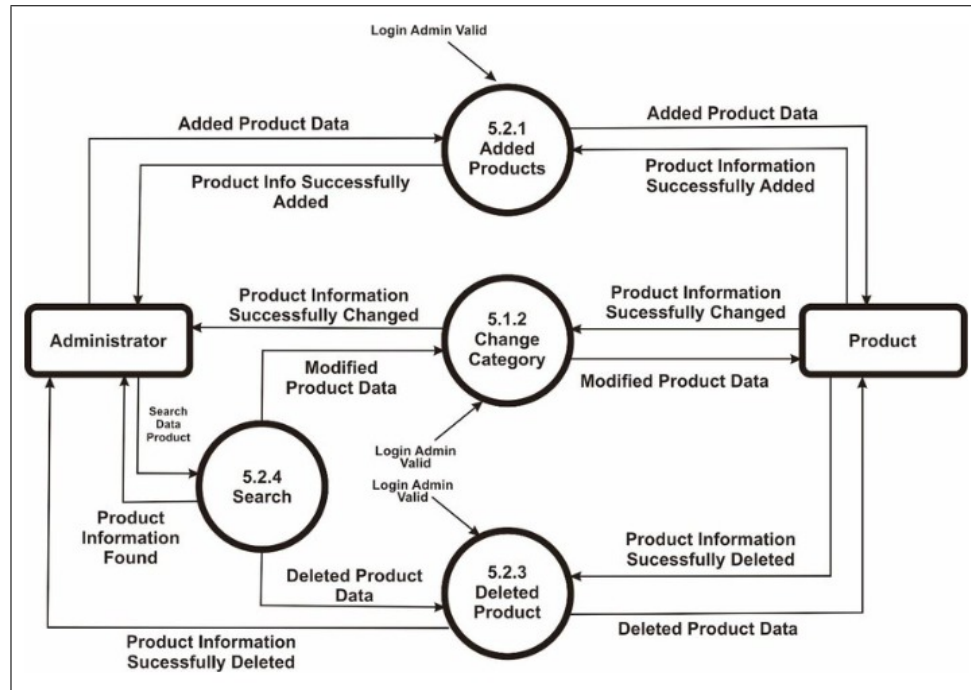


Figure 3.4: Data Flow Diagram Level 2 (Administrator).

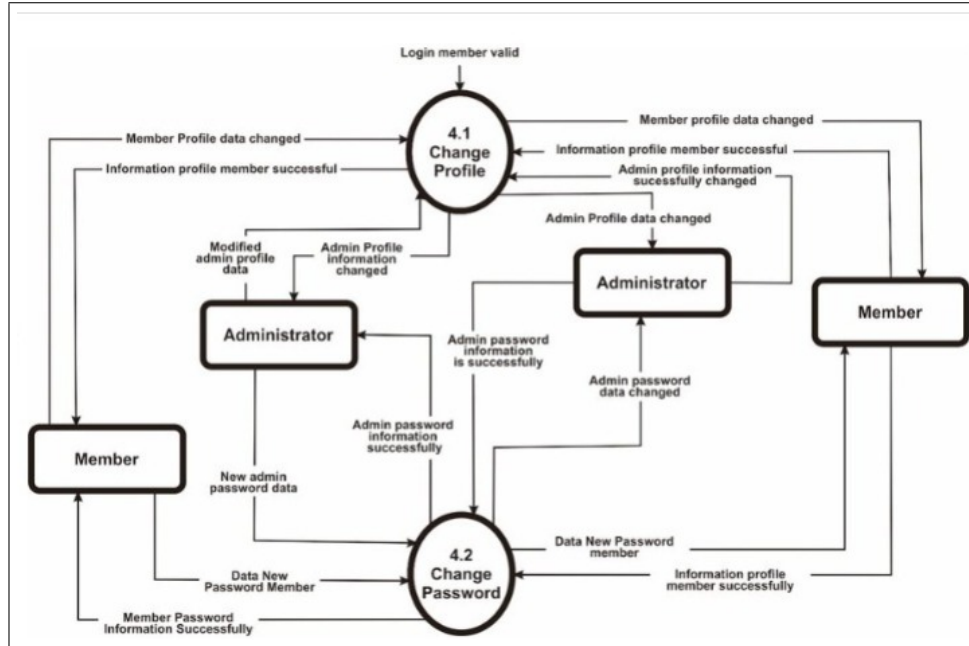


Figure 3.5: Data Flow Diagram Level 2 (Login).

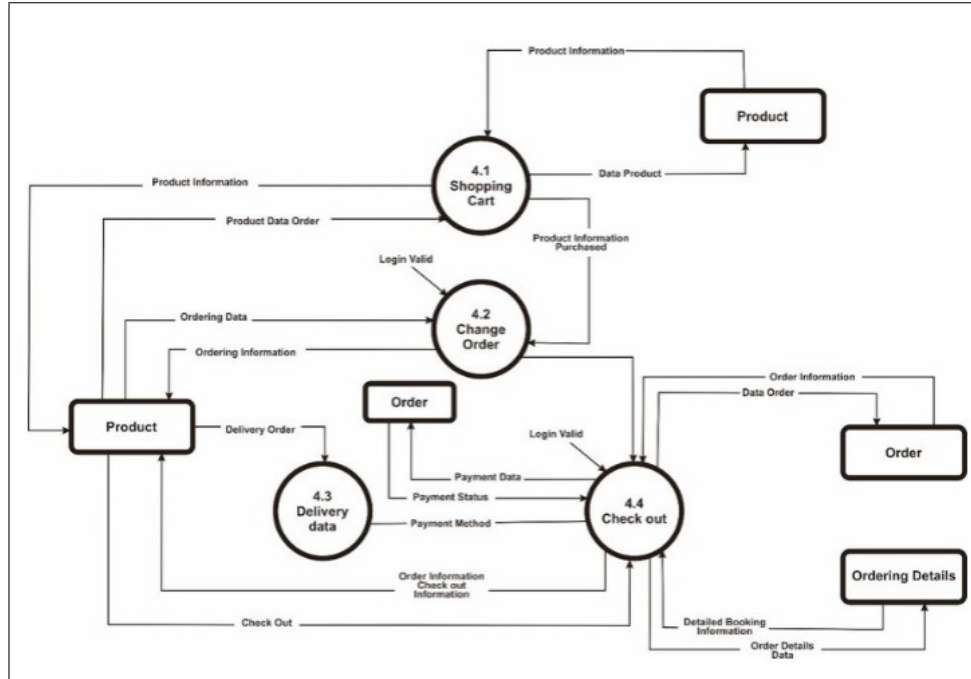


Figure 3.6: Data Flow Diagram Level 2 (User).

## 3.2 Module Description

The admin module deals with the login credentials of the administrator. The administrator has the power to and is the sole user that has the permissions to add and manage exchanges and users. The admin module includes authorization with a username and password. The add/edit exchange component through the admin module deals with the adding/editing of the exchange. In this component, the adding/editing of a particular exchange along with its requisite information can be done. The add user component lets the administrator add each user with their passkey.

The user module deals with various components that a user can perform without login or authorization. The add/edit holding component provides the user the power to add/edit a particular holding of a choice that can be both bitcoin and alt coin. The view status component helps

the user to view the status of the holdings along with the particular exchange that the holding was bought from. The edit holding component can allow the user to edit the details of the exchange that was previously added by the user.

P2P Module deals with the lending component. The lending component allows a user to borrow from another user various USD amounts that a particular user has for lending purposes.

### **3.3 Hardware & Software Requirements**

#### **HARDWARE REQUIREMENTS**

The hardware required for the development of this project is:

- RAM: 2GB
- Dual Core Processor
- Display

#### **SOFTWARE REQUIREMENTS**

- Python (Django)
- Javascript (React)
- MySQL and related services
- VS Code IDE
- Web Browser such as Chromium.

### **3.4 Work Schedule**

The work schedule was done in an organized manner. The project took a duration of 10 days. Initial days comprised of designing and visualizing the project concept. The tables and their descriptions were also produced. Later days comprised of developing the project. Further days consisted of testing the project. Fine tuning the project along with design modifications were done on the final days of the project.



# Chapter 4

## Screenshots

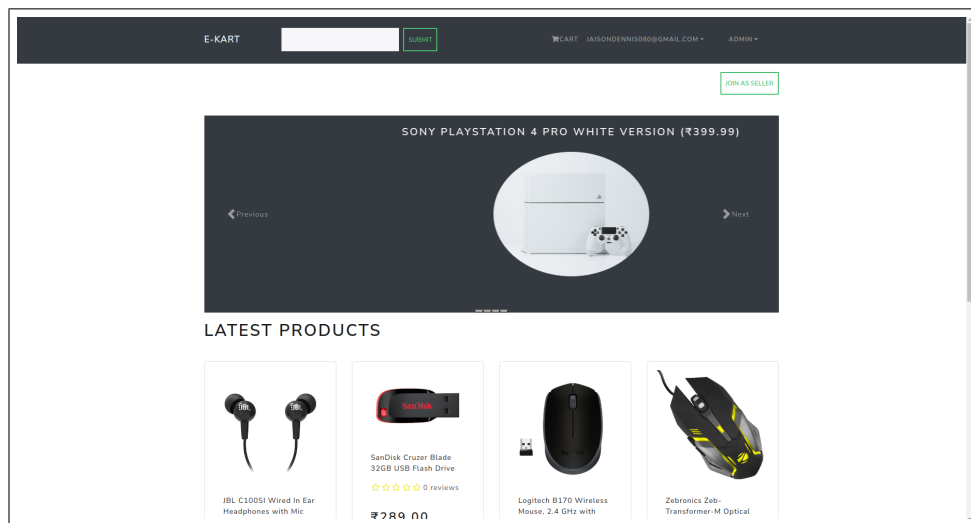


Figure 4.1: Home Screen

## 4. Screenshots

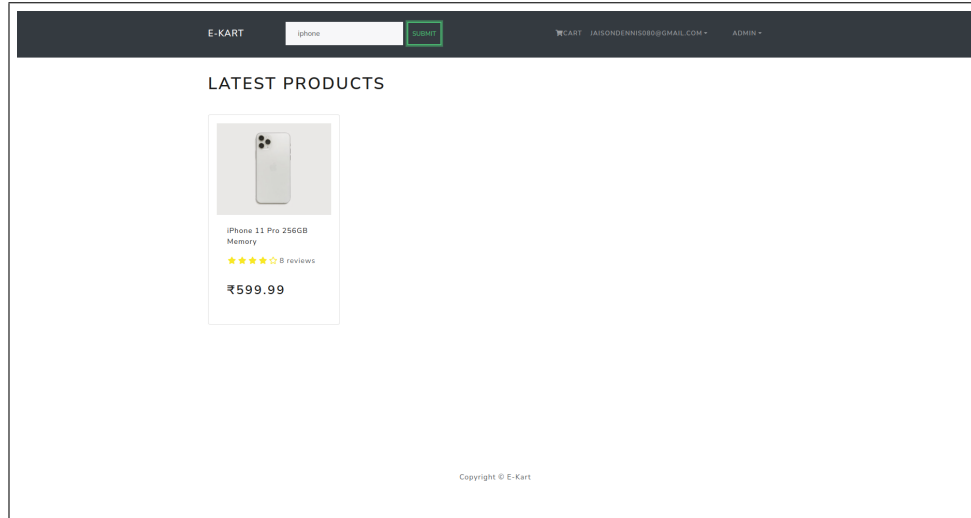


Figure 4.2: Search Products

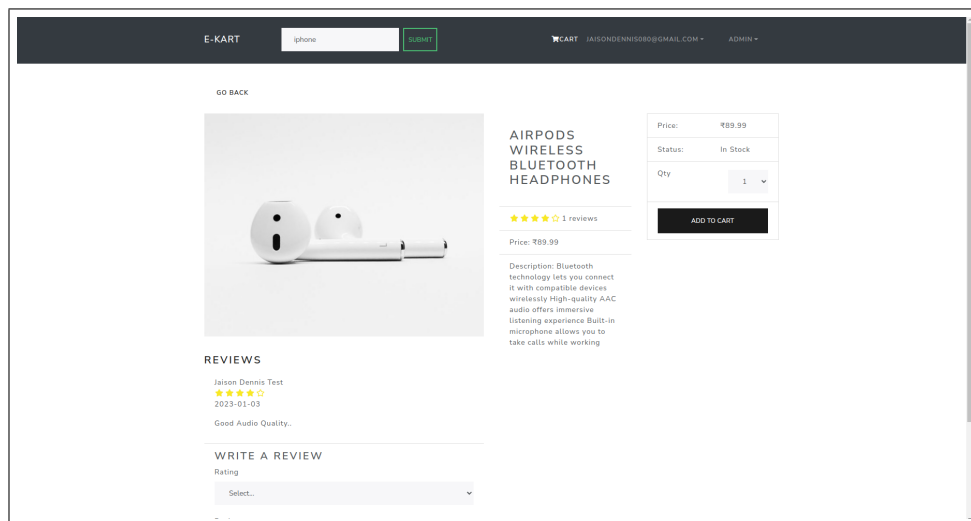


Figure 4.3: Product Description

## 4. Screenshots

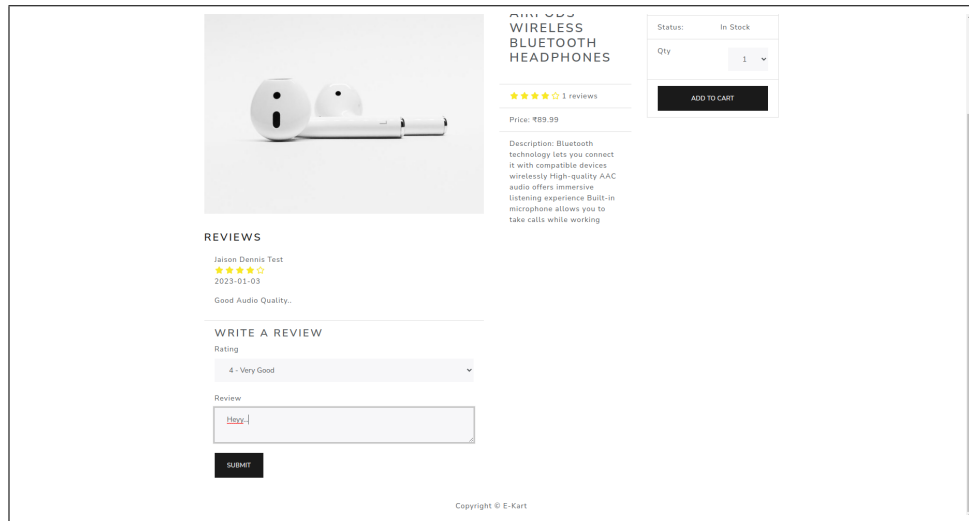


Figure 4.4: Reviews

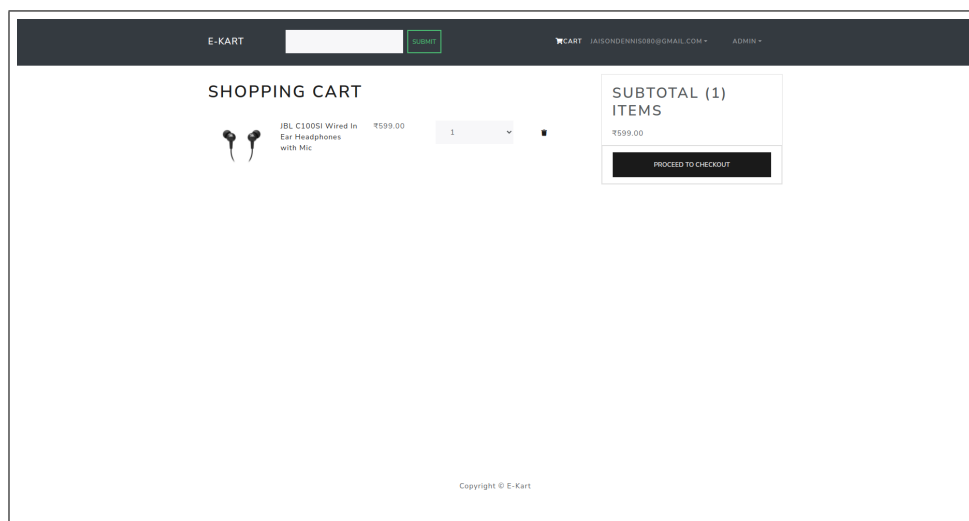


Figure 4.5: Shopping Cart

## 4. Screenshots

The screenshot shows the 'SHIPPING' page of the E-Kart application. The top navigation bar is dark blue with 'E-KART' on the left, a search bar with a 'SUBMIT' button, and user information 'JAISONDENNIS89@GMAIL.COM' and 'ADMIN' on the right. Below the navigation bar, there are links for 'Login', 'Shipping' (active), 'Payment', and 'Place Order'. The main heading is 'SHIPPING'. Below it, there are input fields for 'Address' (Erechath House Eryankudy P.O. Mambra), 'City' (Thiruvur), 'Postal Code' (680308), and 'Country' (India). A 'CONTINUE' button is at the bottom of the form. The footer says 'Copyright © E-Kart'.

Figure 4.6: Shipping Details

The screenshot shows the 'Select Method' page of the E-Kart application. The top navigation bar is dark blue with 'E-KART' on the left, a search bar with a 'SUBMIT' button, and user information 'JAISONDENNIS89@GMAIL.COM' and 'ADMIN' on the right. Below the navigation bar, there are links for 'Login', 'Shipping', 'Payment' (active), and 'Place Order'. The main heading is 'Select Method'. Below it, there is a radio button selected for 'PayPal or Credit Card'. A 'CONTINUE' button is at the bottom of the form. The footer says 'Copyright © E-Kart'.

Figure 4.7: Payment Method

## 4. Screenshots

**E-KART**

**Navigation:** Login Shipping Payment Place Order

**SHIPPING**  
Shipping: Erezhath House Eryankudy P.O. Mambra, Thrissur 680308, India

**PAYMENT METHOD**  
Method: PayPal

**ORDER ITEMS**

🔊 JBL C100SI Wired In Ear Headphones with Mic	1 X ₹599.00 = ₹599.00
---	-----------------------

**ORDER SUMMARY**

Items:	₹599.00
Shipping:	₹0.00
Tax:	₹49.12
Total:	₹648.12

Copyright © E-Kart

Figure 4.8: Confirm Order

**E-KART**

**Navigation:** Login Shipping Payment Place Order

**ORDER:**

**SHIPPING**  
Name: jaionsdennis080@gmail.com  
Email: jaionsdennis080@gmail.com  
Shipping: Erezhath House Eryankudy P.O. Mambra, Thrissur 680308, India  
**Not Delivered**

**PAYMENT METHOD**  
Method: PayPal  
**Not Paid**

**ORDER ITEMS**

🔊 JBL C100SI Wired In Ear Headphones with Mic	1 X ₹599.00 = ₹599.00
---	-----------------------

**ORDER SUMMARY**

Items:	₹599.00
Shipping:	₹0.00
Tax:	₹49.12
Total:	₹648.12

Powered by **PayPal**

Copyright © E-Kart

Figure 4.9: Order Status

## 4. Screenshots

**USER PROFILE**

Name: jaisondennis080@gmail.com

Email Address: jaisondennis080@gmail.com

Password: \*\*\*\*\*

Confirm Password: Confirm Password

**UPDATE**

**MY ORDERS**

ID	DATE	TOTAL	PAID	DELIVERED
31	2023-01-03	¥324.54	✗	<b>DETAILS</b>
32	2023-01-03	¥432.79	✗	<b>DETAILS</b>
33	2023-01-03	¥64.09	✗	<b>DETAILS</b>
36	2023-01-06	¥648.12	✗	<b>DETAILS</b>
38	2023-01-06	¥648.12	✗	<b>DETAILS</b>

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Figure 4.10: User Profile

**USERS**

ID	NAME	EMAIL	ADMIN	
10	jaisondennis080@gmail.com	jaisondennis080@gmail.com	✓	⌵ ✗
11	Jaison Dennis Test	jaisondennis090@gmail.com	✓	⌵ ✗

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Figure 4.11: View Users

## 4. Screenshots

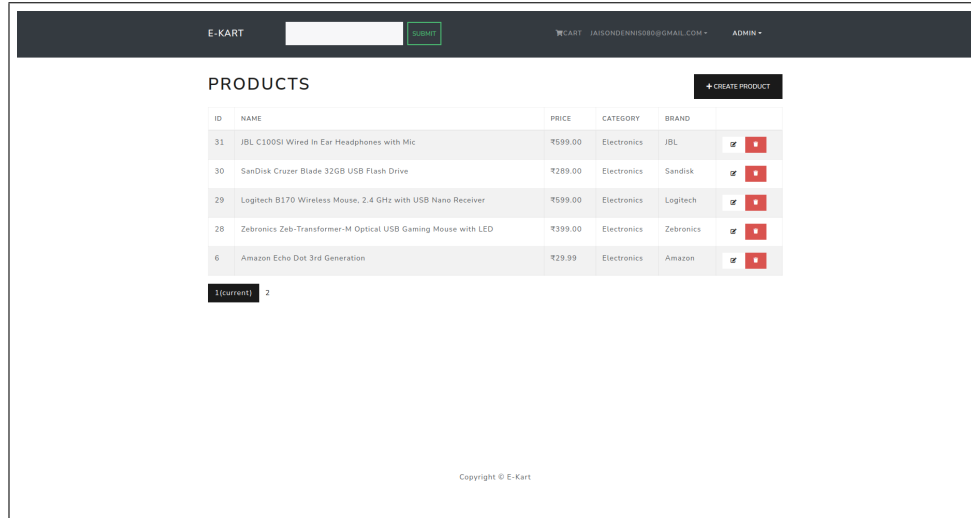


Figure 4.12: View Products

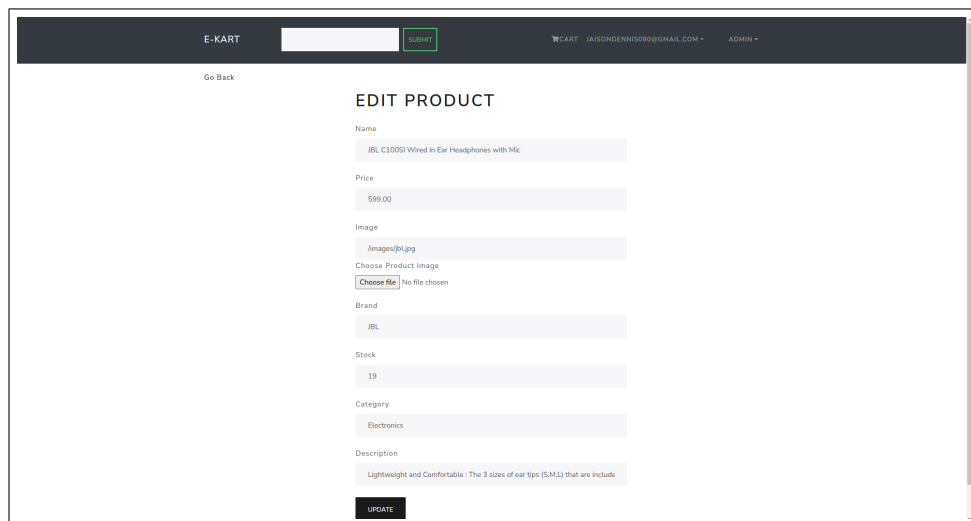


Figure 4.13: Edit Product

## 4. Screenshots

**ORDERS**

ID	USER	DATE	TOTAL	PAID	DELIVERED	
31	jaisondennis080@gmail.com	2023-01-03	324.54	✓	✓	DETAILS
32	jaisondennis080@gmail.com	2023-01-03	432.79	✓	✓	DETAILS
33	jaisondennis080@gmail.com	2023-01-03	64.09	✓	✓	DETAILS
34	Jaison Dennis Test	2023-01-06	2196.40	✓	✓	DETAILS
35	Jaison Dennis Test	2023-01-06	659.98	✓	✓	DETAILS
36	jaisondennis080@gmail.com	2023-01-06	648.12	✓	✓	DETAILS
37	Jaison Dennis Test	2023-01-06	42.45	✓	✓	DETAILS
38	jaisondennis080@gmail.com	2023-01-06	648.12	✓	✓	DETAILS

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Figure 4.14: View Orders



## Chapter 5

# Conclusion

E-Mart ecommerce software with the functional modules was successfully developed and a secured digitalized and user-friendly system for the easy add, delete and editing of ecommerce products also featuring provisions to order and purchase products by users. Manually maintained operations were computerized so that the user can rely on their memory less. Thus the system created to overcome the problems effectively without any corrupted data or information. It is found to be bug-free as per the testing standards that are implemented. And by specification, untraced errors will be concentrated in the coming versions, which is planned to be developed in the near future. The user finally has all that they need to have an purchase, add, track order and delete ecommerce products thus providing users a pleasant and seamless experience.

# References

- [1] <https://www.builder.ai/>
- [2] <https://amazon.in/>
- [3]