A
PROJECT REPORT ON

Online Cloths Shopping System

SUBMITTED IN
PARTIAL FULFILLMENT OF

DIPLOMA IN MOBLIE COMPUTING (PG-DMC)

BY

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UNDER THE GUIDENCE OF

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SUNBEAM INSTITUTE OF INFORMATION TECHNOLOGY, PUNE.

CERTIFICATE

This is to certify that the project

Online Cloths Shopping System

Has been submitted by

Labhesh Mohod

In partial fulfillment of the requirement for the Course of **PG Diploma in Mobile Computing (PG-DMC Mar 2023)** as prescribed by The **CDAC** ACTS, PUNE.

Place: Pune

Date: 26-AUG-2023

MANJUSHA NIKAM
Project Guide

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Labhesh Mohod

ABSTRACT

Multi-Platform Application that will track user’s daily life stats and let the user see how well he/she doing. Application will get data from sensor and user can also put data manually all this data is supposed to be synced with server and stored in data base. A website of same application will allow user to see details in very informatic manner

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INTRODUCTION

Currently, the online market is a large and promising platform for retail businesses. Meanwhile, consumers are trending towards "online shopping" to save time and effort. Therefore, retail businesses are increasingly venturing into this online market with the aim of improving efficiency and sales revenue.

It is known that traditional methods of selling have significant drawbacks when it comes to advertising products and tracking revenue. Revenue reporting is entirely dependent on Excel software, which leads to several challenging issues. Generating a report takes a long time and consumes a lot of time and resources. If there are errors in data entry, they may not be detected and corrected, such as attempting to sell a product that is not in stock or is out of stock without notifying the customer. Employees are also not prompted to restock certain items. Furthermore, customers cannot actively engage in pre-ordering and purchasing products from the shop; all sales and purchases must occur simultaneously between the buyer and the seller.

The goal of this project: Building an online store is indeed crucial for various reasons. It helps the store manage its inventory better, generate fast and accurate revenue reports, reduce labor, cut costs, and save time. Advertising products and the brand also become more straightforward. From the customer's perspective, an online shop saves them time while shopping and allows them

to "reserve" their favorite products without worrying about them being sold out when they visit the store. Customers can also be proactive in browsing and placing orders.

Given the issues you've mentioned, your choice of the topic "Building a Fashion E-commerce Website" is well-suited to help fashion stores improve their inventory management and product advertising. It aligns with the current global development trends. This document will comprehensively describe such an application’s research, design, testing, and development.

Product Overview and Summary

| Purpose: building a fashion e-commerce website not only helps optimize store management but also provides a convenient and trustworthy shopping experience for customers.

- Ensuring that transactions between the store and customers take place quickly and accurately.
- Helps employees manage the store's operations, oversee categories, view reports, and statistics.
- Ensures customers have accurate information about products, can place orders, and make payments easily.

| Scope: Building a fashion e-commerce website can help ensure the following important factors:

- Swift and Accurate Transactions: Through an online interface, customers can easily browse products, add them to their shopping carts, and make payments without the need to visit a physical store. This ensures that transactions take place quickly and accurately.
- Store Management: The system can provide employees and store managers with information about inventory status,

pending orders, and revenue reports in an easy-to-access manner. This helps them make better management decisions and optimize the store's operations.

- Accurate Product Information: Each product on the website can be presented with detailed information, high-quality images, and clear pricing. This helps customers have an accurate understanding of the product before making a purchase, ordering, and making payments conveniently through the website.
- Simplified Payments: The system can integrate various online payment methods, making it easy and secure for customers to complete their payments. This also ensures that payment information is processed accurately and securely.

User Classes and Characteristics:

- Since it is based on many platforms there are many classes and their usage but most importantly the app uses a Model for the user to be able to buy the product first they will put the product in the cart and actually have to do it login function when you want to checkout products
- Android platform as well as Reactjs has a Data persistence implementation. With the functionality of a good front-end. Both Android and Reactjs work well when retrieving data from the database access API.
- Regarding database management, the MySQL platform is sufficient for managing products and customers of the online sales system.

| Design and Implementation Constraints

- User Interface

To achieve the efficiency of the purchase process on the online sales system, using Reactjs and Android to create a very effective

user interface. For Reactjs is a front-end known as Single Page Application which is very effective. The interface created from Reactij makes it more user-friendly. Besides, Android also creates a convenient interface that is not inferior to help users easily make effective shopping on handheld devices..

- **Multi-platform**: A web application product is created with many different platforms that make it highly effective when providing many tools to consumers. Consumers can make purchases right on both web browsers as well as on mobile devices. The purchase is served easily anytime, anywhere as long as the customer can connect to the internet.

Functional Requirements

1. Admin - The person with the highest responsibility for the system, has all the rights of the system including (user management, category management, message management, banner management, brand management, owner management).

2. User - Ordinary users, who have registered an account with the system, have the right to view order history, manage personal information, add products to the cart, manage personal addresses, comment on posts, rate products.

3. User management - User management function, allowing administrators to search, delete users, view .

4. Catalog - All categories management function allows administrator to search, add, edit, delete, view

5. Order Management - Order management function, allowing sales staff to search, view detailed information, update order status, export excel.

6. Product Management - All products management function allows administrator to search, add, edit, delete, view all products in the system.

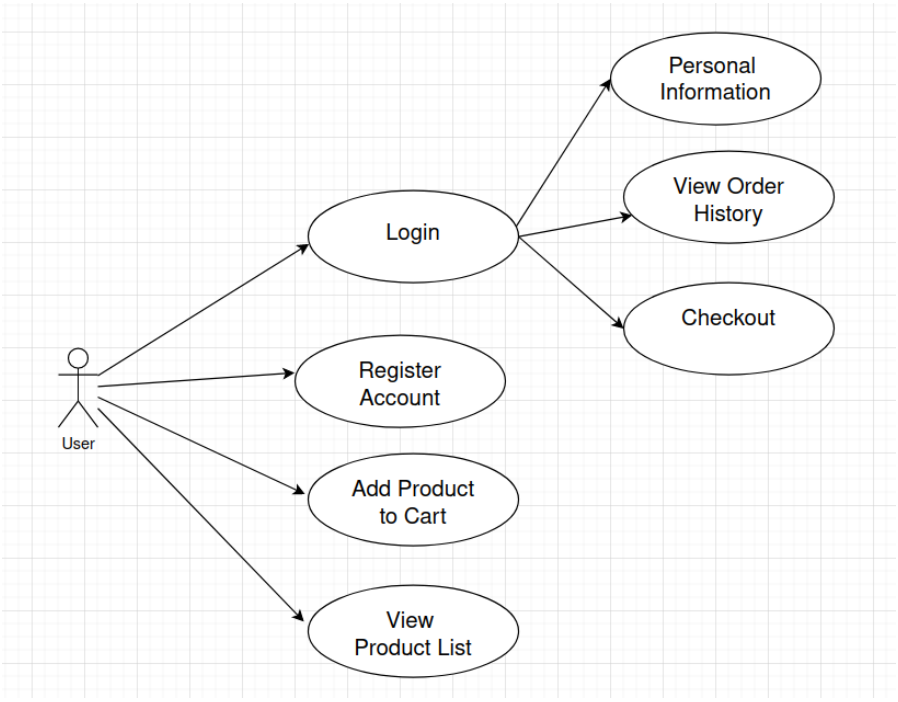
7. Personal Information - Personal information management function allows members to edit and view their personal information in the system.

8. View Order History - Personal order management function allows members to review information about orders

9. Add Product to Cart - The function of adding products to the cart allows members to add products, update quantities, and delete products in the system's cart.

10. View Product List - Product information view function allows visitors to view full details of each product in the system.

| Use Case for User:



| Use Case for Admin:

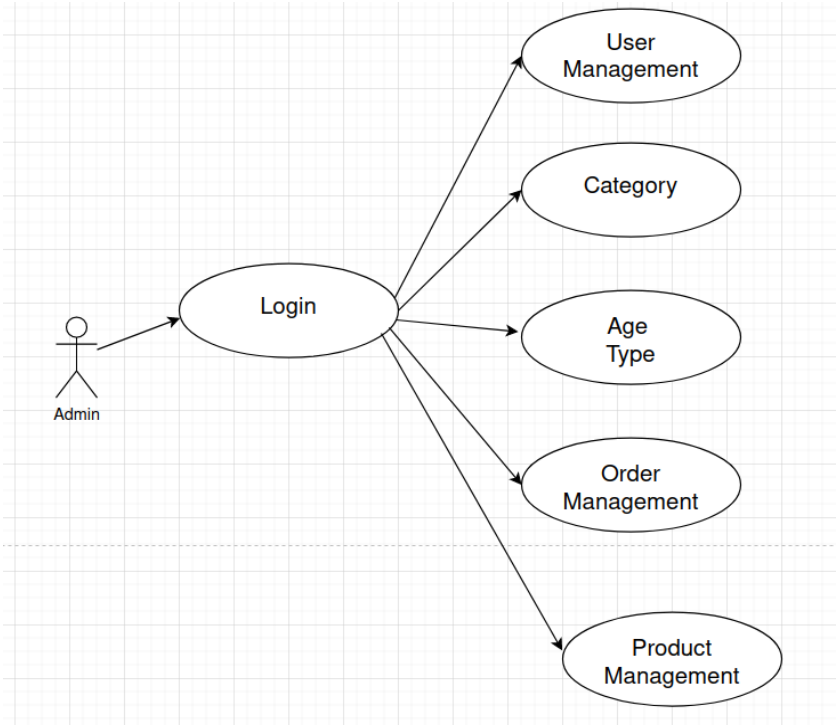


Fig. 2

| API:

```
app.use(cors("*"));
app.use(express.json());
app.use(express.static("uploads"));
app.use("/images", express.static("uploads"));
app.use("/api/users", userRouter);
app.use("/api/products", productRouter);
app.use("/api/productDetail", productDetailRouter);
app.use("/api/productDetailSize", productDetailSizeRouter);
app.use("/api/productImages", productImagesRouter);
app.use("/api/addressUsers", addressUsersRouter);
app.use("/api/orderProducts", orderProductsRouter);
app.use("/api/orderProductDetails", orderProductsDetailsRouter);

app.use("/api/receiptdetails", receiptDetailsRouter);
app.use("/api/shopcarts", shopcartsRouter);
app.use("/api/wishlists", wishlistsRouter);
app.use("/api/agetypes", agetypesRouter);
app.use("/api/categorys", categorysRouter);
```

| Database:

```
mysql> show tables;
+--------------------+
| Tables_in_mysql_db |
+--------------------+
| addressUser        |
| agetypes           |
| brand              |
| category           |
| orderDetail        |
| orderProducts      |
| productDetailSize  |
| productImages      |
| products           |
| productsDetail     |
| receipt            |
| receiptDetail      |
| shopCarts          |
| supplier           |
| users              |
| wishList           |
+--------------------+
16 rows in set (0,00 sec)
```

Fig. 1

Non - Functional Requirements

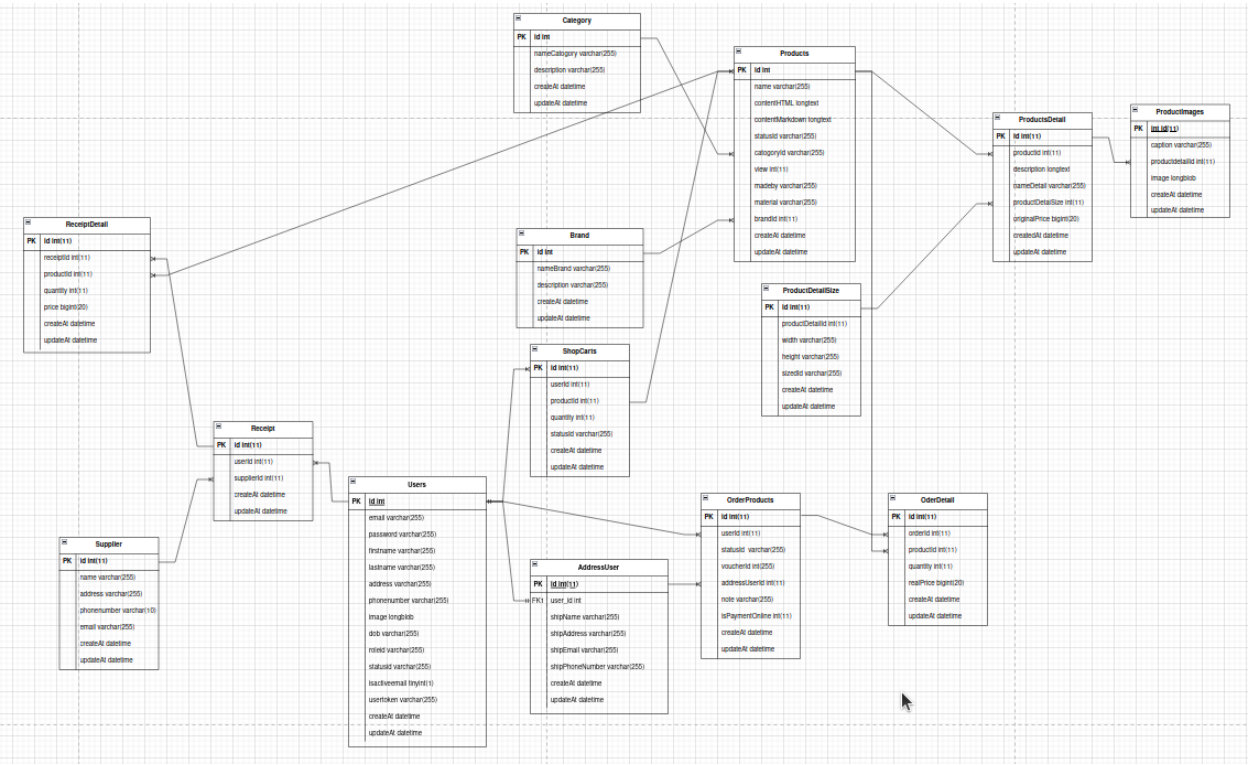
Usability Requirement: Application should be easy to use and provide basic user interface that can be used without any tutorial.

Multiple views must be used for modularity in this concept, I will be referring to the ease of use of a mobile application. The aim of the use of the mobile application is to get some features and functionality and the application would be difficult to use without the usability being considered. Every application is expected to be effective, sophisticated, and satisfactory and the color and contrast should be intact and follow some other principles that are considered the standard to be followed by developers. The design of the application should be done in such a way that users of all abilities would be able to use the UI efficiently.

Also, those with different disabilities such as hearing impairment, low vision, or blindness should be able to engage themselves in using the apps. Users of all apps should be able to appreciate the color and contrast of the mobile applications. Developers should also take into consideration the sound implementation of the app, which is an alternative to the visual implementation. Unnecessary sounds should always be avoided and the sounds that interpret screen elements or content should be designed for a correct or almost correct efficiency.

Data Model

Database In order to effectively store the buying and selling process of the online sales system, to help users and managers use it effectively, we choose the MySQL database management system to perform the function. store entities like cart, product order, users, ... In which:



Screen Shots

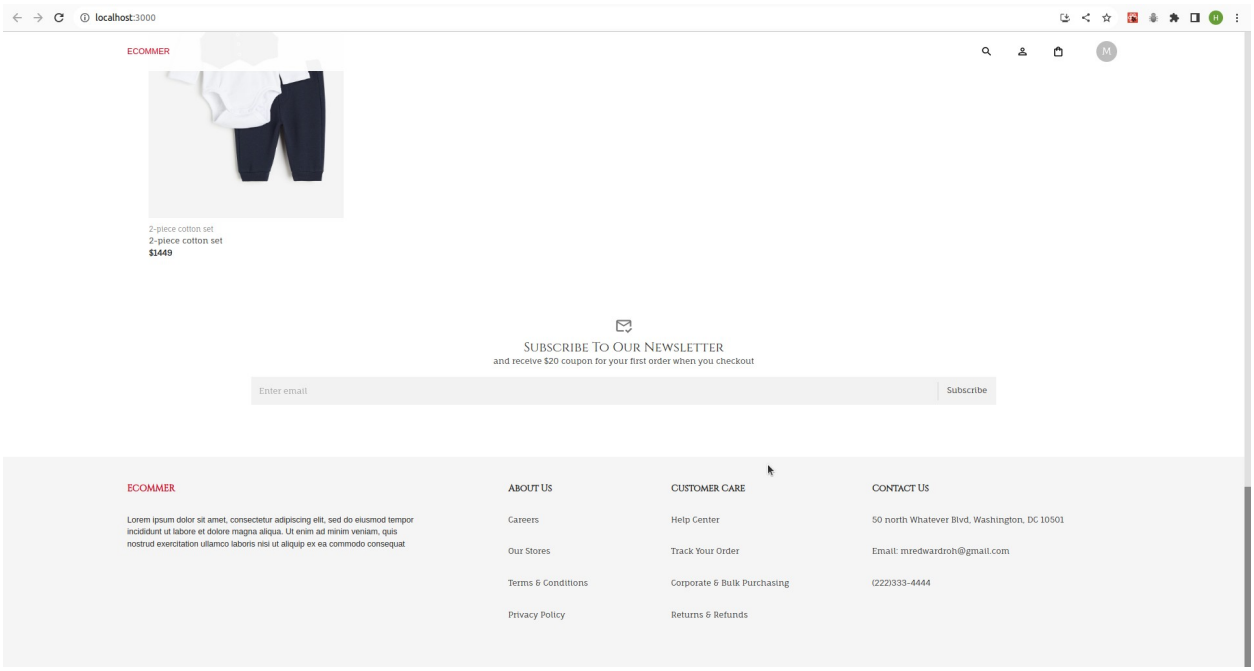
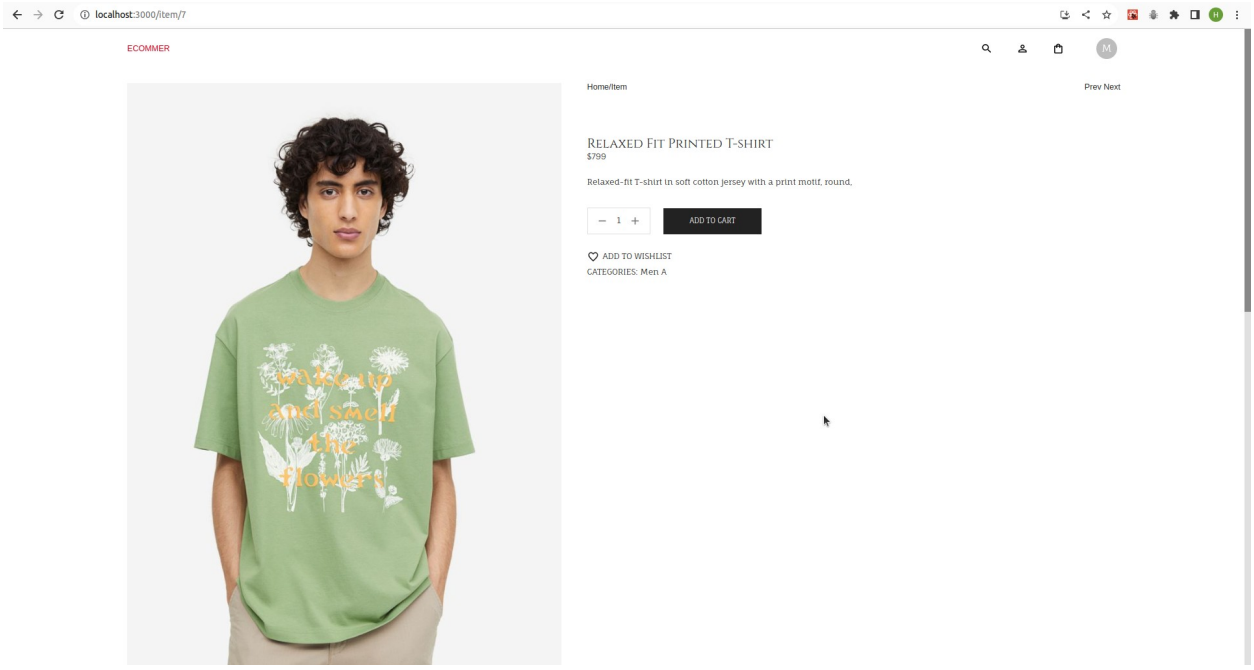


Fig. 4


localhost:3000/item/7
ECOMMER
Home/Item
Prev Next
RELAXED FIT PRINTED T-SHIRT
$799
Relaxed-fit T-shirt in soft cotton jersey with a print motif, round,
1
ADD TO CART
ADD TO WISHLIST
CATEGORIES: Men A

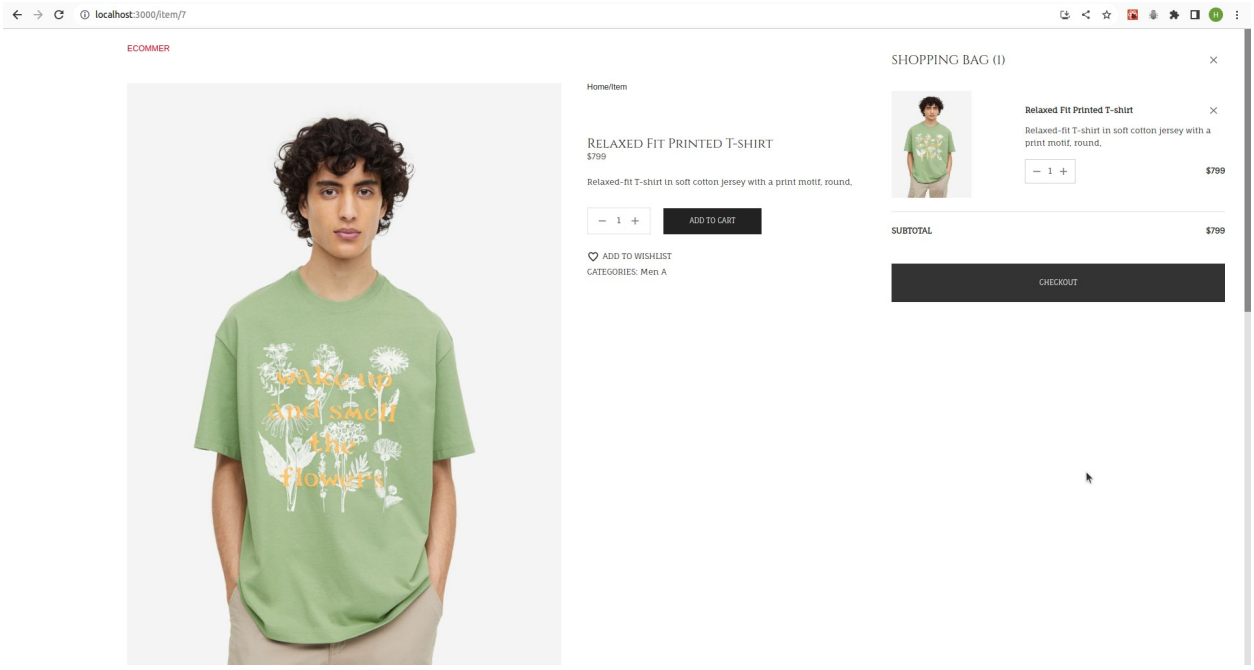
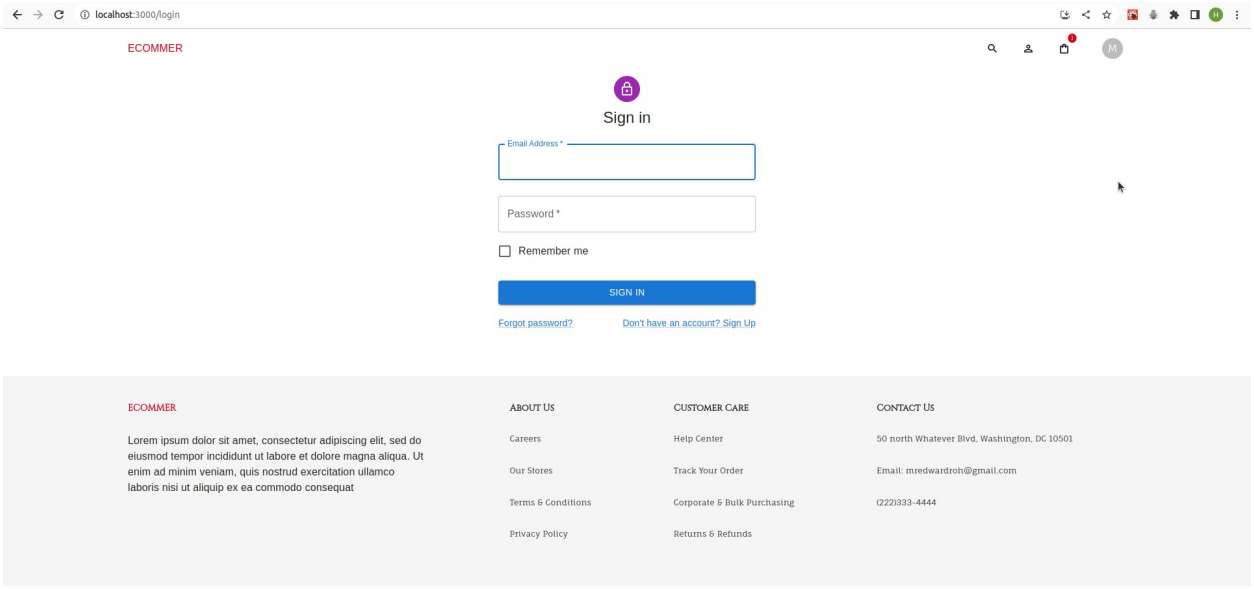

localhost:3000/item/7
ECOMMER
Home/Item
RELAXED FIT PRINTED T-SHIRT
$799
Relaxed-fit T-shirt in soft cotton jersey with a print motif, round,
1
ADD TO CART
ADD TO WISHLIST
CATEGORIES: Men A
SHOPPING BAG (1)
Relaxed Fit Printed T-shirt
Relaxed-fit T-shirt in soft cotton jersey with a print motif, round,
1
$799
SUBTOTAL
$799
CHECKOUT

Fig. 5


localhost:3000/login
ECOMMER
Sign in
Email Address *
Password *
Remember me
SIGN IN
Forgot password?
Don't have an account? Sign Up
ECOMMER
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat
ABOUT US
Careers
Our Stores
Terms & Conditions
Privacy Policy
CUSTOMER CARE
Help Center
Track Your Order
Corporate & Bulk Purchasing
Returns & Refunds
CONTACT US
50 north Whatever Blvd, Washington, DC 10501
Email: mredwardroh@gmail.com
(222)333-4444

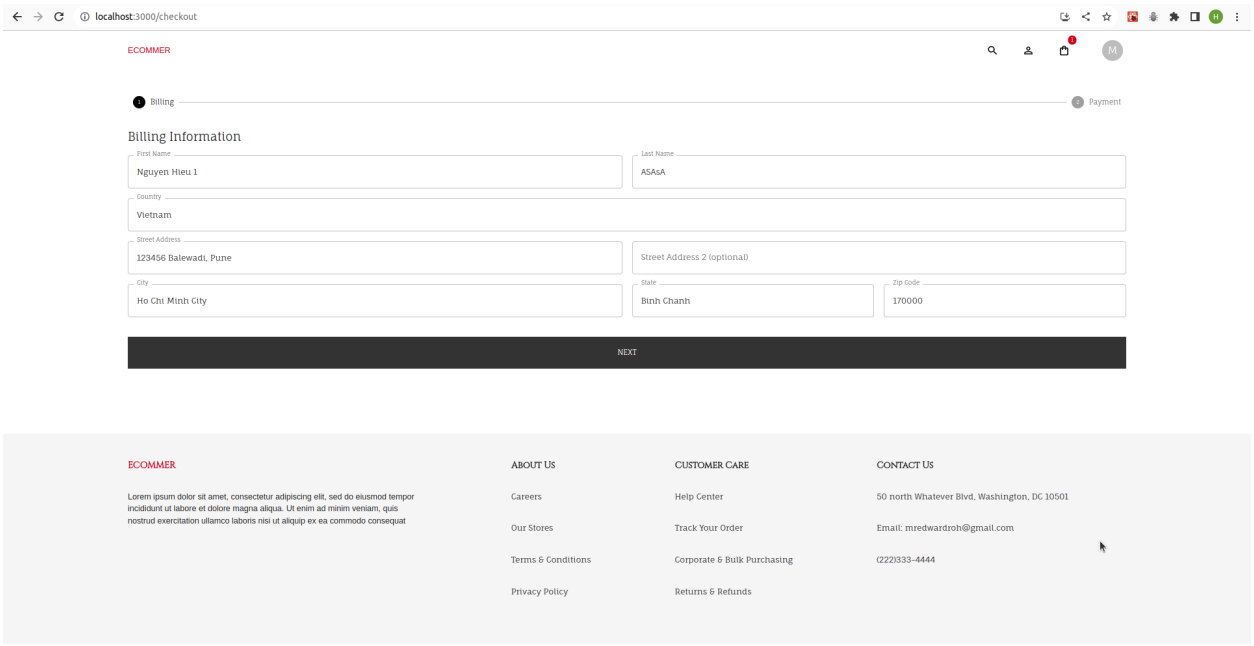

localhost:3000/checkout
ECOMMER
Billing
Payment
Billing Information
First Name
Nguyen Hieu 1
Last Name
ASAsA
Country
Vietnam
Street Address
123456 Balewadi, Pune
Street Address 2 (optional)
City
Ho Chi Minh City
State
Binh Chanh
Zip Code
170000
NEXT
ECOMMER
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat
ABOUT US
Careers
Our Stores
Terms & Conditions
Privacy Policy
CUSTOMER CARE
Help Center
Track Your Order
Corporate & Bulk Purchasing
Returns & Refunds
CONTACT US
50 north Whatever Blvd, Washington, DC 10501
Email: mredwardroh@gmail.com
(222)333-4444

Fig. 6

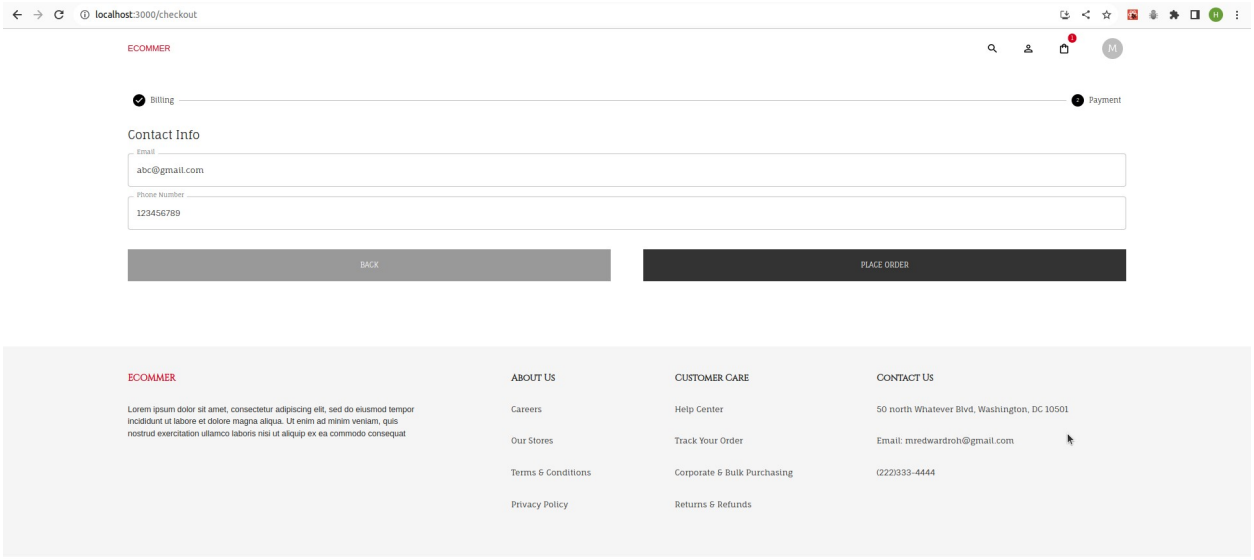

localhost:3000/checkout
ECOMMER
Billing
Payment
Contact Info
Email
abc@gmail.com
Phone Number
123456789
BACK
PLACE ORDER
ECOMMER
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat
ABOUT US
Careers
Our Stores
Terms & Conditions
Privacy Policy
CUSTOMER CARE
Help Center
Track Your Order
Corporate & Bulk Purchasing
Returns & Refunds
CONTACT US
50 north Whatever Blvd, Washington, DC 10501
Email: mredwardroh@gmail.com
(222)333-4444

Fig. 7

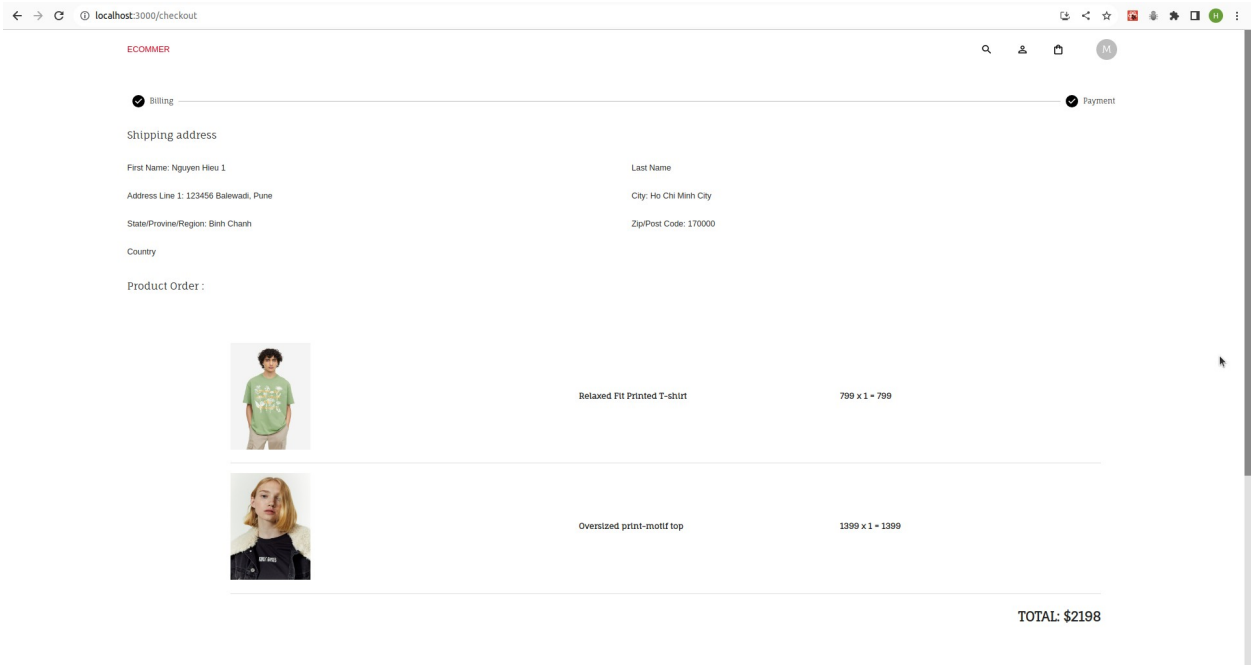

localhost:3000/checkout
ECOMMER
Billing
Payment
Shipping address
First Name: Nguyen Hieu 1
Last Name
Address Line 1: 123456 Balewadi, Pune
City: Ho Chi Minh City
State/Provine/Region: Binh Chanh
Zip/Post Code: 170000
Country
Product Order :
Relaxed Fit Printed T-shirt
799 x 1 = 799
Oversized print-motif top
1399 x 1 = 1399
TOTAL: $2198

Fig. 8

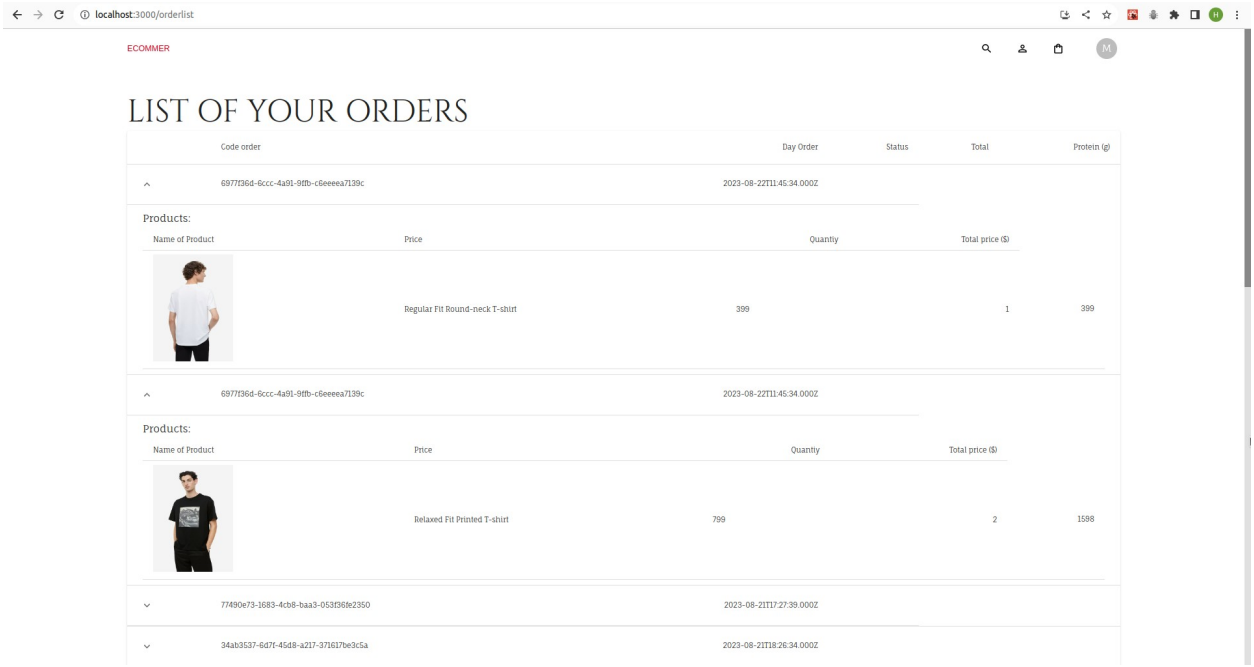

localhost:3000/orderlist
ECOMMER
LIST OF YOUR ORDERS
Code order
Day Order
Status
Total
Protein (g)
6977f36d-6ccc-4a91-9ffb-c6eeeea7139c
2023-08-22T11:45:34.000Z
Products:
Name of Product
Price
Quantity
Total price ($)
Regular Fit Round-neck T-shirt
399
1
399
6977f36d-6ccc-4a91-9ffb-c6eeeea7139c
2023-08-22T11:45:34.000Z
Products:
Name of Product
Price
Quantity
Total price ($)
Relaxed Fit Printed T-shirt
799
2
1598
77490e73-1683-4cb8-baa3-053f36fe2350
2023-08-21T17:27:39.000Z
34ab3537-6d7f-45d8-a217-371617be3c5a
2023-08-21T18:26:34.000Z

Fig. 9


localhost:3000/admin
ADMINIS
Search
DASHBOARD
Welcome to your dashboard
DOWNLOAD REPORTS
Ed Roh
VP Fancy Admin
Dashboard
Data
Manage Team
Contacts Information
Invoices Balances
Pages
Ages Type
Catelogy
Products
Calendar
FAQ Page
Charts
Bar Chart
Pie Chart
Line Chart
Geography Chart
12,361
Emails Sent
+14%
431,225
Sales Obtained
+21%
32,441
New Clients
+5%
1,325,134
Traffic Received
+43%
Revenue Generated
$59,342.32
plane
helicopter
boat
train
subway
bus
car
moto
bicycle
horse
skateboard
others
us
france
japan
Recent Transactions
01e4dsa
johndoe
2021-09-01
$43.95
0315dsaa
jackdower
2022-04-01
$133.45
01e4dsa
aberdohnny
2021-09-01
$43.95
Campaign
$48,352 revenue generated
Includes extra misc expenditures and costs
Sales Quantity
donut
kebab
burger
hot dog
Geography Based Traffic

Fig. 10

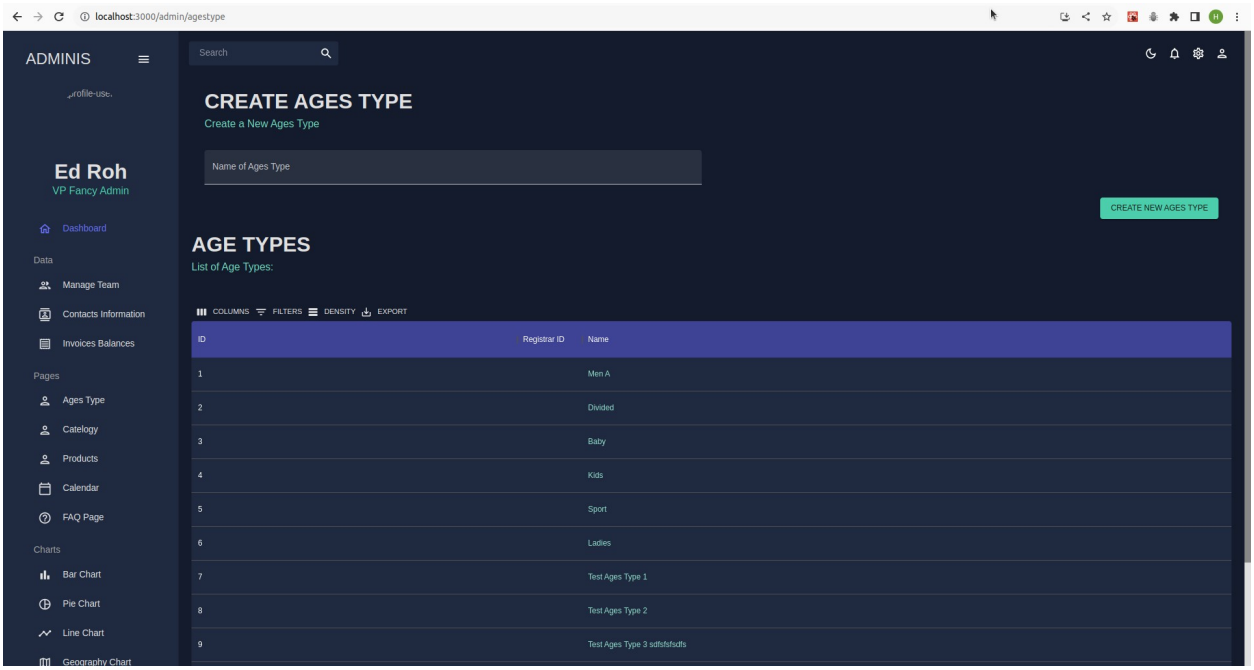


Fig. 11

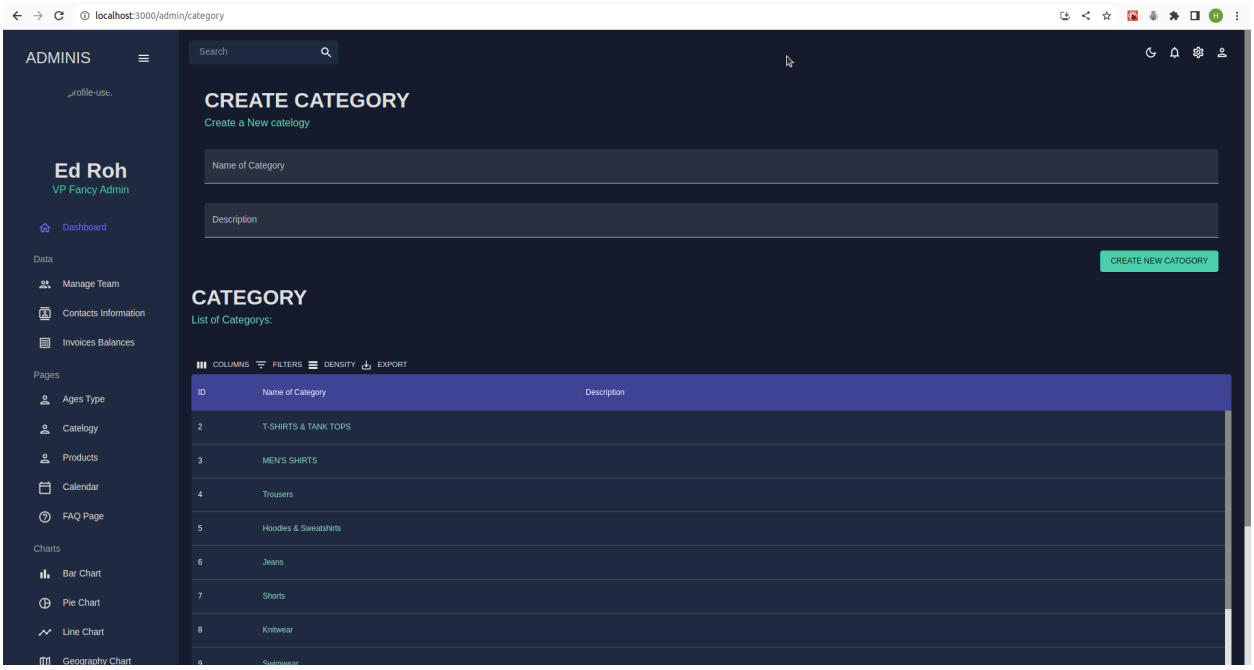


Fig. 12

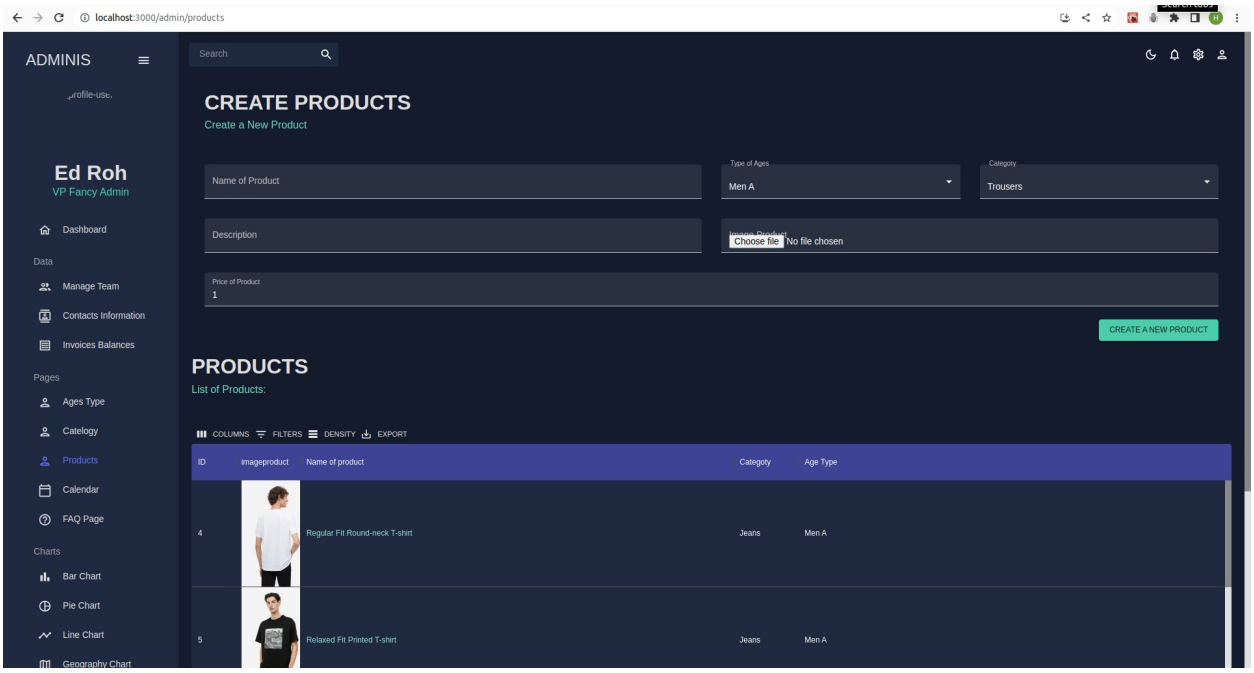
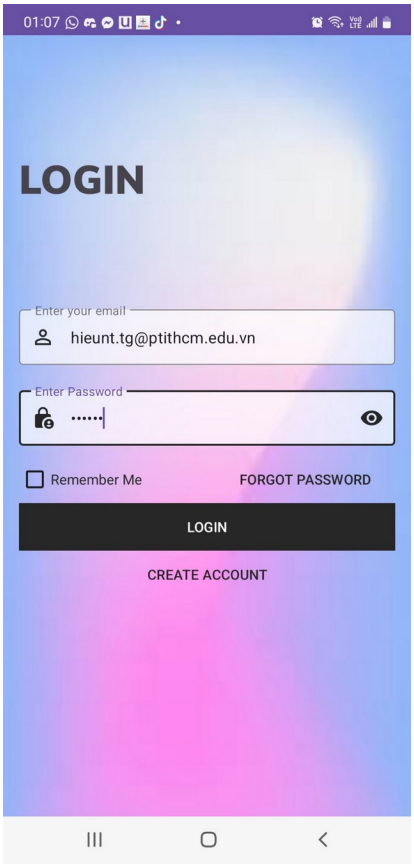
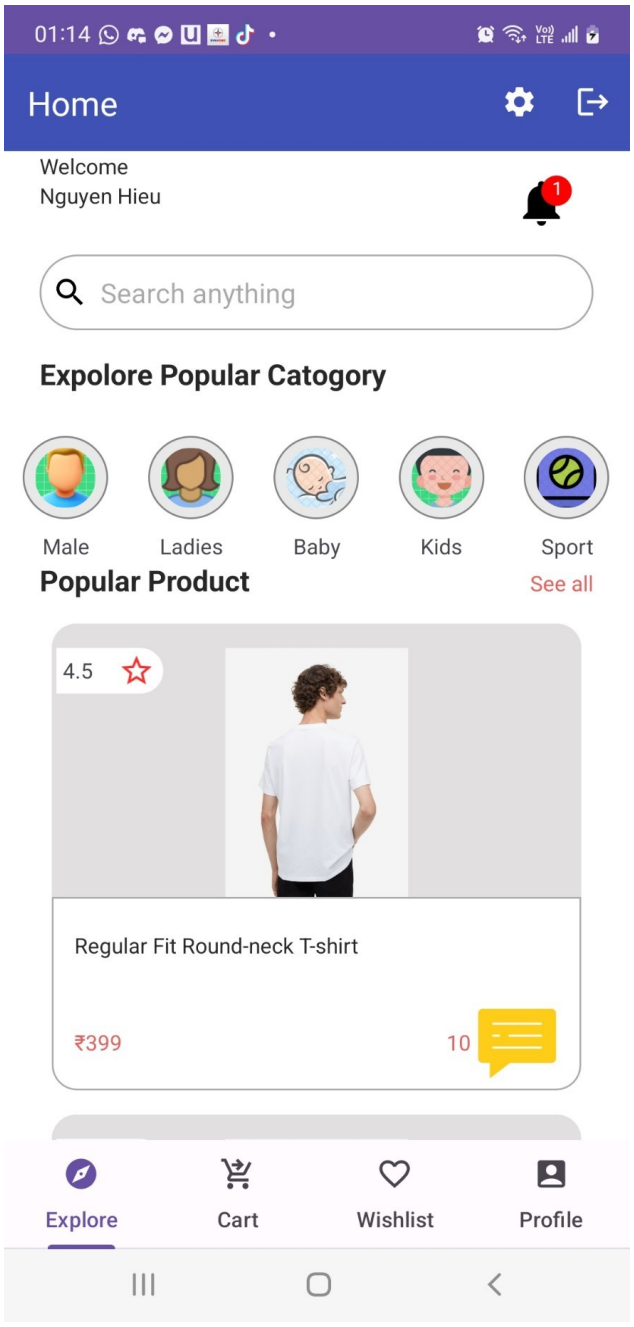
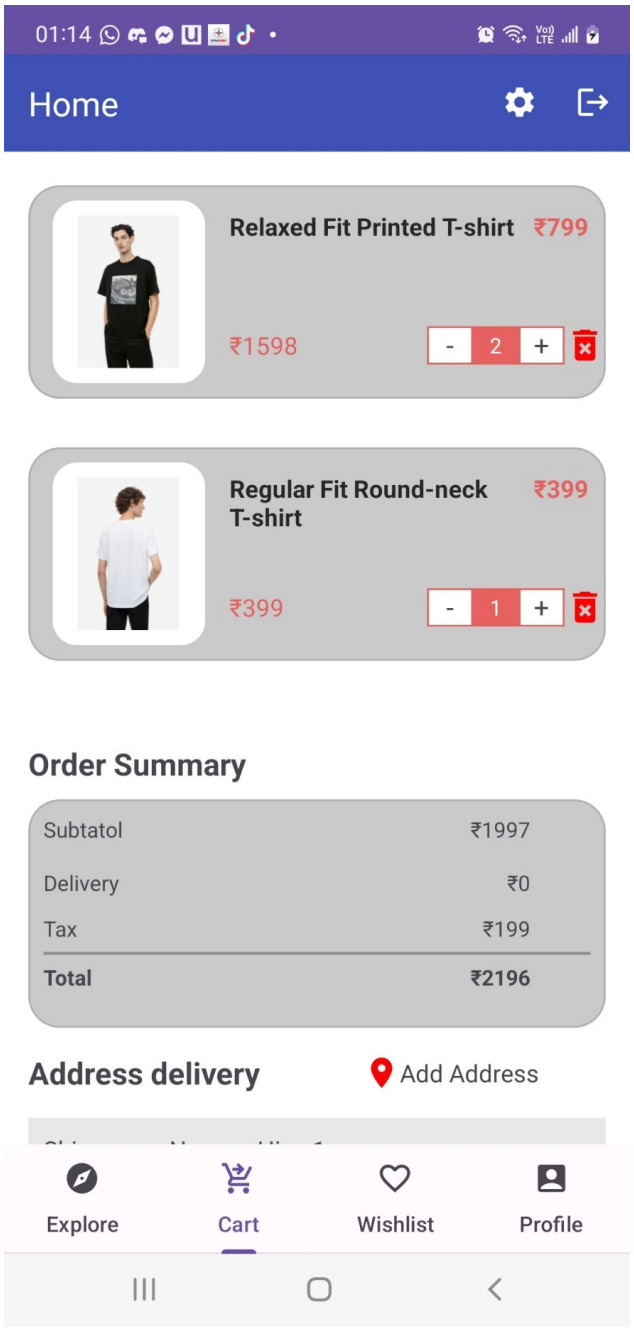
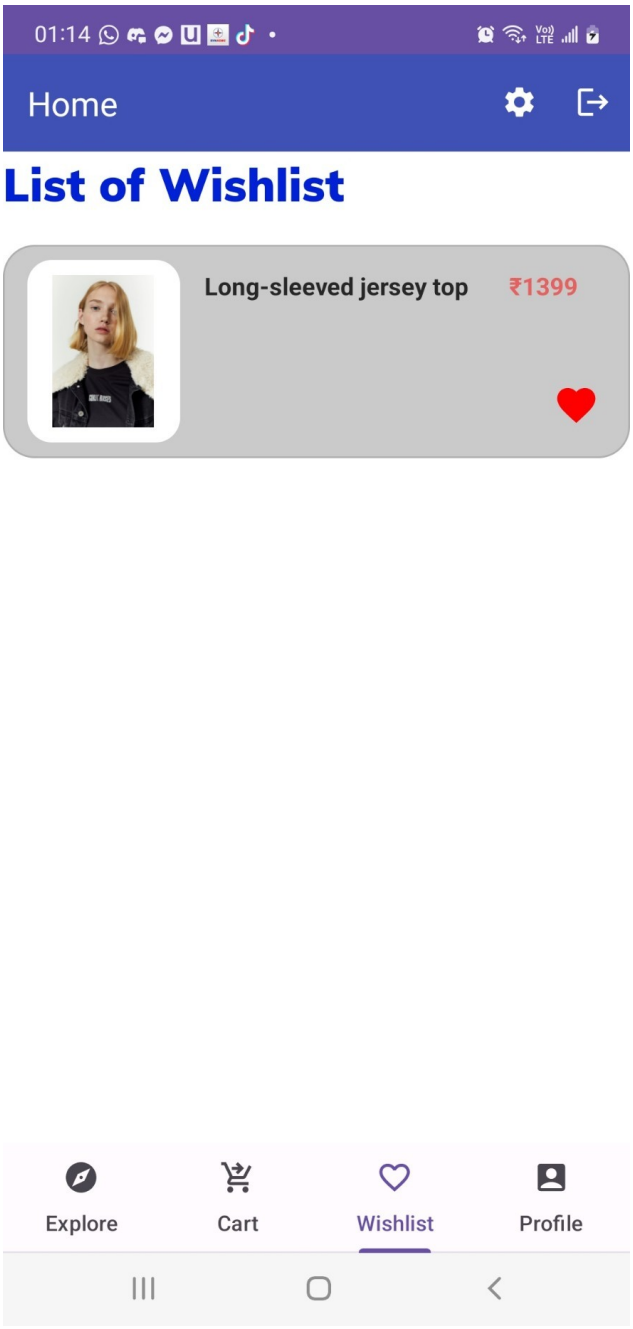

localhost:3000/admin/products
ADMINIS
Search
CREATE PRODUCTS
Create a New Product
Ed Roh
VP Fancy Admin
Name of Product
Type of Ages
Men A
Category
Trousers
Description
Choose file
No file chosen
Price of Product
1
CREATE A NEW PRODUCT
Dashboard
Data
Manage Team
Contacts Information
Invoices Balances
Pages
Ages Type
Catelogy
Products
Calendar
FAQ Page
Charts
Bar Chart
Pie Chart
Line Chart
Geography Chart
PRODUCTS
List of Products:
COLUMNS
FILTERS
DENSITY
EXPORT
ID
imageproduct
Name of product
Categoty
Age Type
4
Regular Fit Round-neck T-shirt
Jeans
Men A
5
Relaxed Fit Printed T-shirt
Jeans
Men A

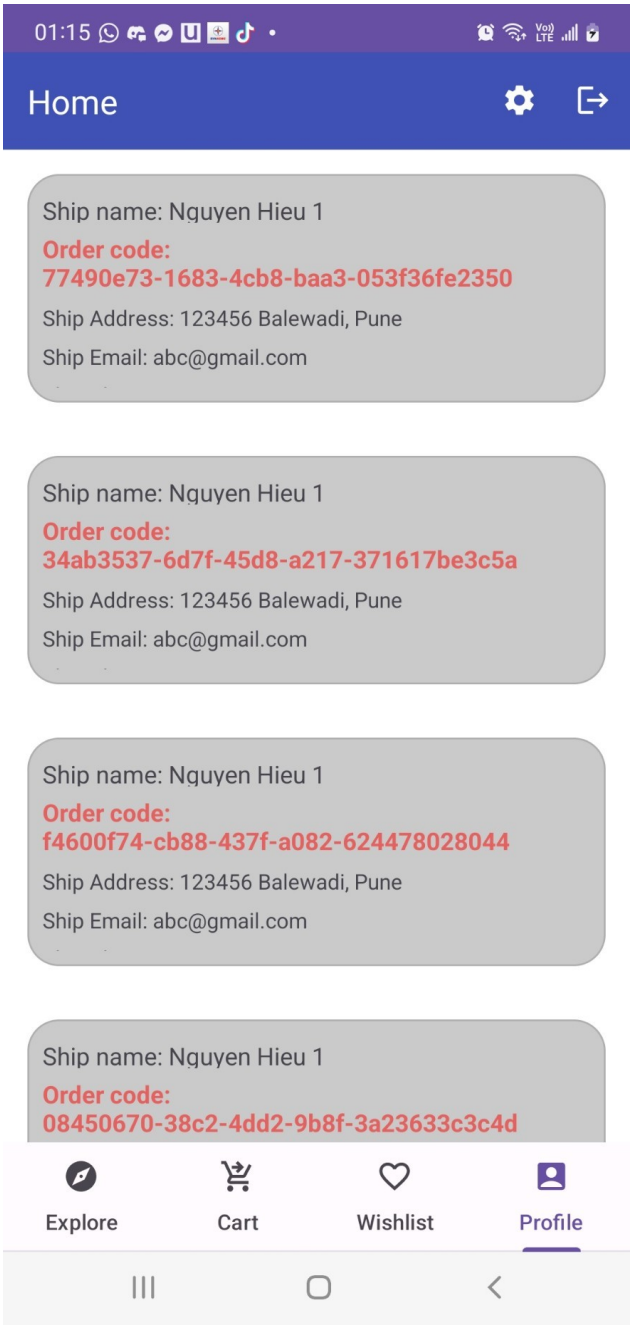
Fig. 13


01:07
LOGIN
Enter your email
hieunt.tg@ptithcm.edu.vn
Enter Password
Remember Me
FORGOT PASSWORD
LOGIN
CREATE ACCOUNT


01:14
Home
Welcome
Nguyen Hieu
1
Search anything
Expolore Popular Catogory
Male
Ladies
Baby
Kids
Sport
Popular Product
See all
4.5
Regular Fit Round-neck T-shirt
₹399
10
Explore
Cart
Wishlist
Profile


01:14
Home
Relaxed Fit Printed T-shirt
₹799
₹1598
-
2
+
Regular Fit Round-neck T-shirt
₹399
₹399
-
1
+
Order Summary
Subtatol
₹1997
Delivery
₹0
Tax
₹199
Total
₹2196
Address delivery
Add Address
Explore
Cart
Wishlist
Profile


01:14
Home
List of Wishlist
Long-sleeved jersey top
₹1399
Explore
Cart
Wishlist
Profile


01:15
Home
Ship name: Nguyen Hieu 1
Order code:
77490e73-1683-4cb8-baa3-053f36fe2350
Ship Address: 123456 Balewadi, Pune
Ship Email: abc@gmail.com
Ship name: Nguyen Hieu 1
Order code:
34ab3537-6d7f-45d8-a217-371617be3c5a
Ship Address: 123456 Balewadi, Pune
Ship Email: abc@gmail.com
Ship name: Nguyen Hieu 1
Order code:
f4600f74-cb88-437f-a082-624478028044
Ship Address: 123456 Balewadi, Pune
Ship Email: abc@gmail.com
Ship name: Nguyen Hieu 1
Order code:
08450670-38c2-4dd2-9b8f-3a23633c3c4d
Explore
Cart
Wishlist
Profile

01:15

Receipt

Receipt

Code:77490e73-1683-4cb8-baa3-053f36fe2350

Personal Information

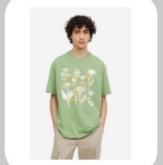
Ship name: Nguyen Hieu 1

Ship Address: 123456 Balewadi, Pune

Ship Email: abc@gmail.com

Ship Phone Name: 123456789

List Products:



Relaxed Fit Printed T-shirt ₹799

Totoal ₹799 Quantity 1

Summary :

Subtotal:	₹799
Delivery:	₹0
Tax:	₹79
Total:	**₹878**

01:15

Regular Fit Round-neck T-shirt

Regular Fit Round-neck T-shirt ₹399

4.6 Rating 12 Reviews

Regular-fit T-shirt in soft cotton jersey with a round, rib-trimmed neckline and a straight hem.

Quantity: - 1 + Add Cart

| Conclusion: Achievement Although development was a challenge, our project team has successfully created an online sales business application. Our whole team learned:

- Learn the business related to the sales website (Cart, order,)
- Learn the Restfull API model.
- Front end: Html, css, ReactJs, Redux
- Mobile: Andoid platform.
- Backend: Nodejs, ExpressJs.
- In particular, we have completed an online shopping project for both web and mobile app

| Future Work :

- Expand statistics with a variety of graphs and statistics.
- Integrate many credit cards and e-wallets for convenient payment.
- Handles the ability to save photos so that messages can be sent with photos and videos..

| References:

https://developer.android.com/get-started/

Introduce about ReactJs - https://react.dev/reference/react

Introduce about ExpressJS - https://expressjs.com/en/4x/api.html