

# **Summer Internship Report (PC649)**

**A report submitted in fulfillment of the requirements for the Award of Degree of**

**MASTER OF SCIENCE**

**IN**

**INFORMATION TECHNOLOGY**

**By**

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**Under the Subject of**

**E-Commerce Website**

**(Duration: 18<sup>th</sup> May, 2022 to 18<sup>th</sup> July, 2022)**



**Dhirubhai Ambani Institute of Information and Communication Technology,  
Gandhinagar, Gujarat, 382007.**

**Batch :- 2021-2023**

# Internship Completion Certificate

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## Introduction

E-Commerce is one of the most common word that we listen everyday in today's life. It is one of the most buzzing word in today's era. From small kirana shop to big business house everyone wants to sell their products online. Everyone wants to be part of online selling of goods. E-commerce gives business to grow next level that is not possible to grow at local market. E-commerce is the future of the business it decides the business leadership. The company who is not in online business will not be able to survive in the business. From small products to large lakh rupees car everything can be sold on an e-commerce platform. Every company wants their presence online specially in India. In India e-commerce growth rate is around 10% increase every year. So it is an opportunity for us to be part and get familiar with this new generation business in summer internship.

## Scope

This Document Lays out a project plan for the development of the "E-Commerce Website". The aim of this project is to provide the complete platform to the user to be able to start their business online. It enables user to list particular their products for their individual business and start their journey as the individual seller.

## Functional and Non-Functional Requirements

A Functional Requirements defines a system or its component. It describes the functions a software must perform. A function is nothing but inputs, its behaviour, and outputs. It can be a calculation, data manipulation, business process, user interaction, or any other specific functionality which defines what function a system is likely to perform.

### Functional Requirements of E-Commerce Website

#### Customer:-

- **Register new user:** Customer should be able to register as new Customer so that Customer can be able to purchase product.
- **Login as existing user:** Customer should be able to login as existing user if Customer registered in past so that Customer can resume and continue shopping.
- **Add Products to cart:-** Customer should able to add products on the cart.
- **Remove Products from cart:-** Customer should able to remove products form the cart.

#### • Admin:-

- **Add Product Category:-** Admin can be able to Add new products category to the website.

- **Manage Product Category:-** Admin can be able to update and delete Product Category from the website.
- **Add Products:-** Admin can be able to add products to the website.
- **Manage Products:-** Admin can be able to update and delete products from the website.

## Non-Functional Requirements

A non-Functional Requirements defines the quality attribute of a software system. They represent a set of standards used to judge the specific operation of a system. Example, how fast does the website load?

A non-functional requirement is essential to ensure the usability and effectiveness of the entire software system. Failing to meet non-functional requirements can result in systems that fail to satisfy user needs. Non-Functional requirements ensure the reliability, availability, and performance of the software system.

## Non- Functional Requirements of E-Commerce Website

- **Availability:-** Our Website support for 24/7 time so that customer able access the website whenever customer want and complete the shopping without any issue.

- **Reliability:** Technology that is highly reliable functions with the same or similar efficiency after extensive use. This quality attribute specifies how likely the system or its element would run without a failure for a given period of time under predefined conditions.
- **Percentage of the probability of failure:** -You can check the percentage of the probability of failure, or failure rate, to determine the reliability of a system. If the percentage is higher, the system is likely to function normally after substantial use.
- **Number of critical features:-** Consider recording the amount of critical failures a system experiences during testing to check its reliability. If the number of failures is low, it means that the system operates properly.
- **Time between critical features:-** Tracking the time between critical failures can help you understand the reliability of a system. When critical failures occur rarely, it means that a system functions normally most of the time.
- **Maintainability:-**

Maintainability defines the time required for a solution or its component to be fixed, changed to increase performance or other qualities, or adapted to a changing environment. Like reliability, it can be expressed as a probability of repair during some time.

We are able to solve 75% maintainability in 48 hours , this means that there's a 75 percent chance the component can be fixed in 48 hours.

- **Security:-**

To protect sensitive data, consider to develop Non-functional security features is very important. For example, professionals at healthcare facilities use secure databases to store patients' medical records. The security on their databases may include firewalls to prevent unauthorized access. Here are examples of typical security measures on E-Commerce :

- **Account creation:-** Systems may require users to create accounts to access applications first time that store information and display profiles. A security system typically grants access to accounts when users enter the correct username and password whenever user write to login again.
- **Password generation :-** An application may not grant access until the user creates a strong password. For example, a strong password might contain a certain number of characters and a capital letter.
- **Data Integrity:-**

Integrity Constraints are the protocols that a table's data columns must follow. These are used to restrict the types of information that can be entered into a table. This means that the data in the Database is accurate and reliable. Data integrity Constraints apply at the column or table level.

The following are some types of constraints that we are applied in our database of online eBook Maker project:

- When no value is defined for a column, the DEFAULT Constraint provides a default value.
- A UNIQUE Constraint ensures that any value in a column is unique.
- Each row/record in a database table is uniquely identified by the PRIMARY Key.



- A FOREIGN KEY recognizes a row/record in any database table uniquely.

- **Usability:-**

Usability refers to the ability to use a particular product, including elements such as:

- Purpose of Features:- With high usability, Customer can easily determine what a feature is and what it can do.
- Navigation:- Customer can easily navigate for one feature to the other feature.

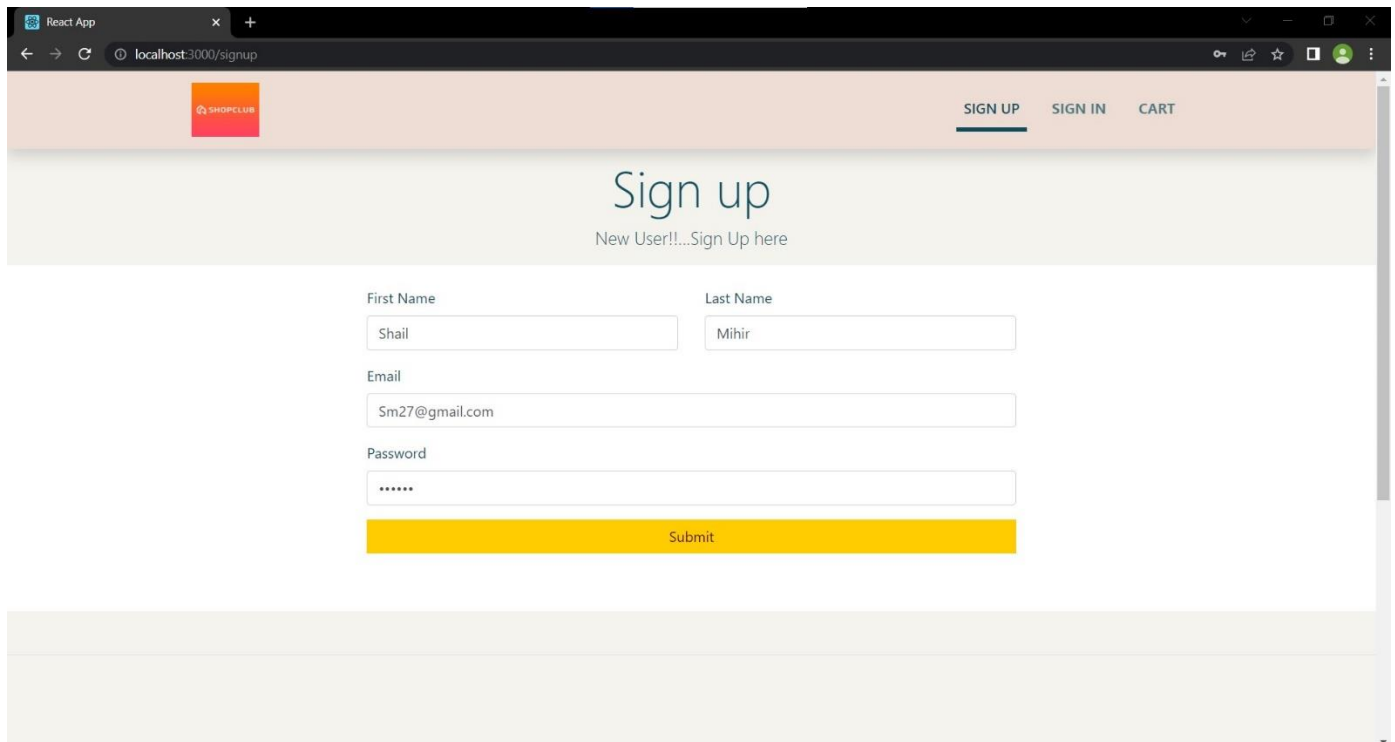
## Technology/Coding

**Frontend /Backend Technology Stack :-** HTML, CSS, JavaScript, MongoDB, Nodejs, ReactJs .

- In Frontend we have separated both admin and customer profile individual. In admin we have give functionality like add category , add product, manage product , update category, manage category , update product . we have also used API call like get, post, update,put and delete to do different operations .
- We have also used authentication of admin if it role is 1 than it is admin other than that is customer to separate admin and customer profile.
- We have also used react hook like use state and use effect functionality .
- We have also used catch to handle error . we have also used fetch, set values , div , class , onclick event handler, match , Preload .

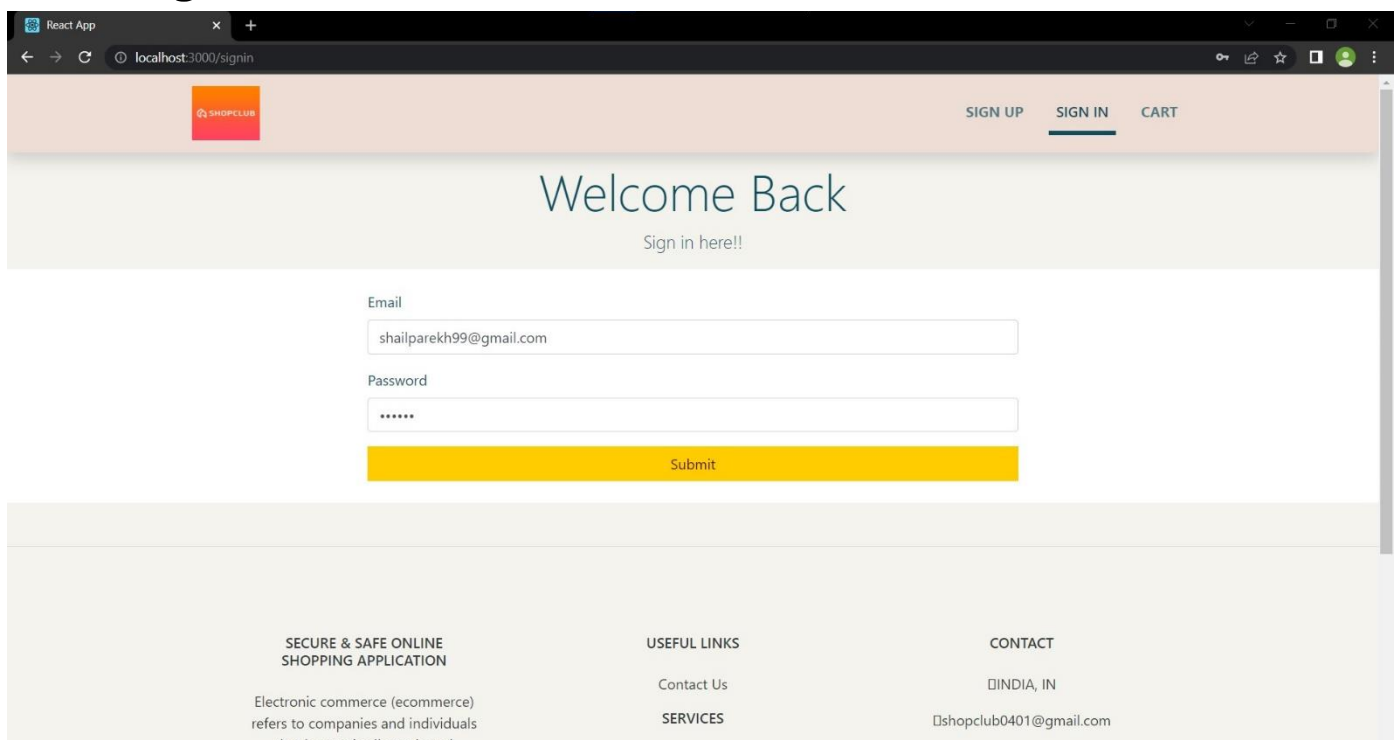
## ScreenShots of Important Functionality

### User Registration Form:-



A screenshot of a web browser showing the 'Sign up' page of a shopping application. The browser's address bar shows 'localhost:3000/signup'. The page has a light orange header with a 'SHOPCLUB' logo on the left and navigation links 'SIGN UP', 'SIGN IN', and 'CART' on the right. The 'SIGN UP' link is underlined. The main content area has a light beige background with the text 'Sign up' in a large font, followed by 'New User!!...Sign Up here' in a smaller font. Below this, there are four input fields: 'First Name' (containing 'Shail'), 'Last Name' (containing 'Mihir'), 'Email' (containing 'Sm27@gmail.com'), and 'Password' (containing six asterisks). A yellow 'Submit' button is positioned below the password field.

### User Login Form:-

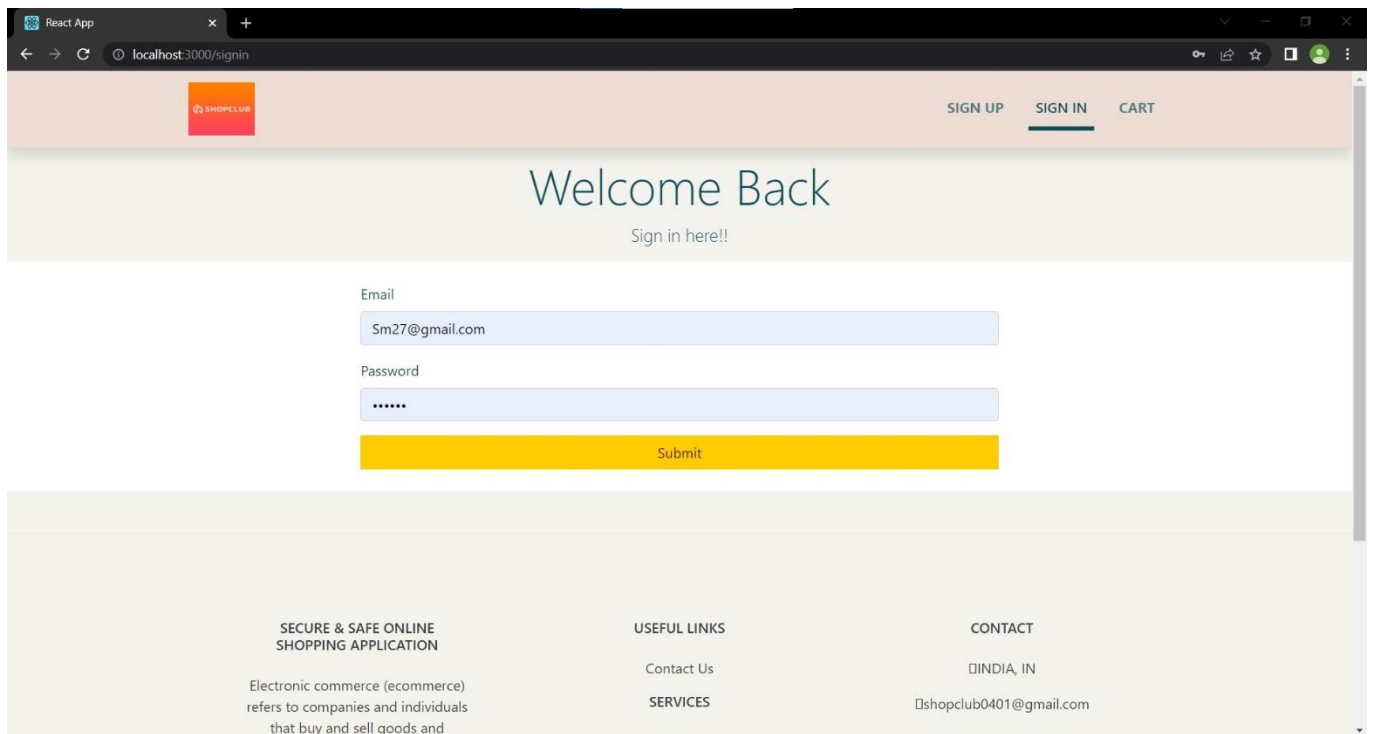


A screenshot of a web browser showing the 'Sign in' page of the same shopping application. The browser's address bar shows 'localhost:3000/signin'. The page has a light orange header with the 'SHOPCLUB' logo on the left and navigation links 'SIGN UP', 'SIGN IN', and 'CART' on the right. The 'SIGN IN' link is underlined. The main content area has a light beige background with the text 'Welcome Back' in a large font, followed by 'Sign in here!!' in a smaller font. Below this, there are two input fields: 'Email' (containing 'shailparekh99@gmail.com') and 'Password' (containing six asterisks). A yellow 'Submit' button is positioned below the password field.

At the bottom of the page, there is a footer with three columns of text:

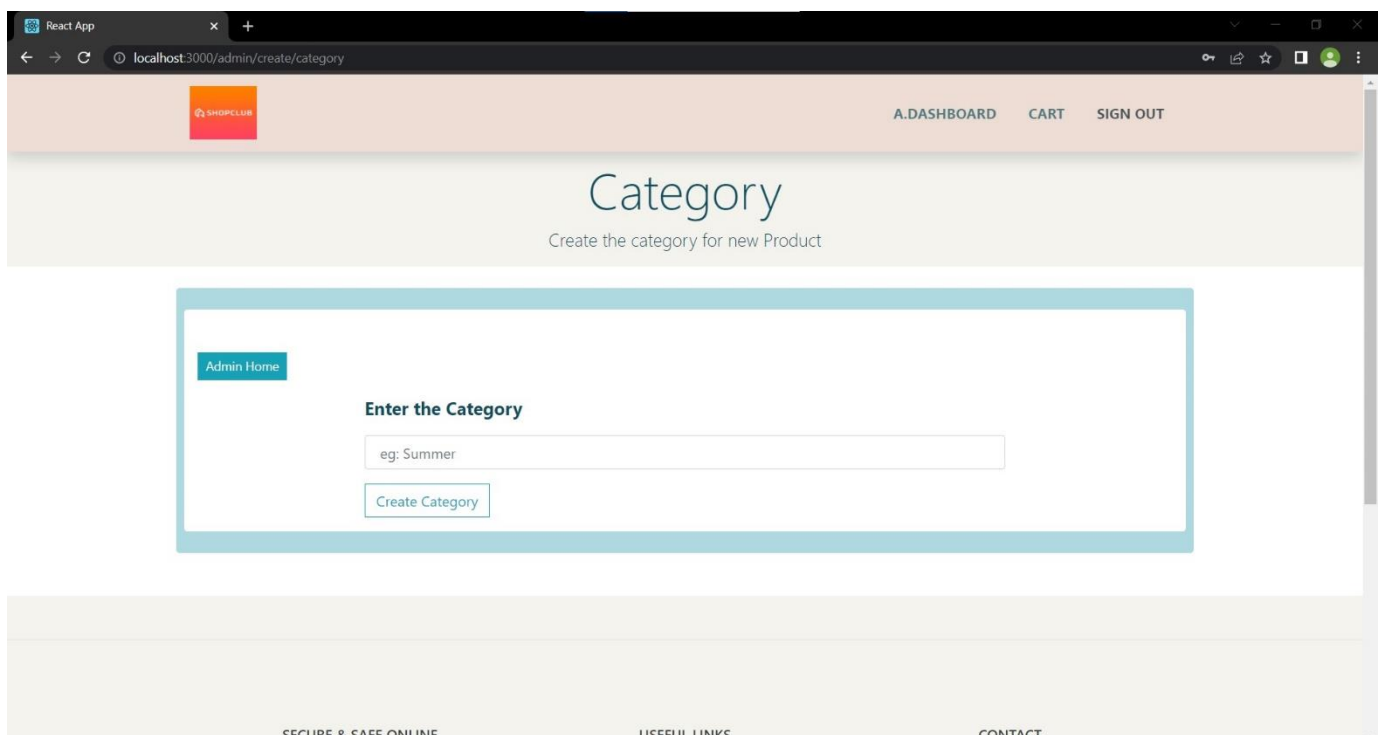
- SECURE & SAFE ONLINE SHOPPING APPLICATION**  
Electronic commerce (ecommerce) refers to companies and individuals that buy and sell goods and
- USEFUL LINKS**  
Contact Us  
**SERVICES**
- CONTACT**  
INDIA, IN  
shopclub0401@gmail.com

## User Login Form :-



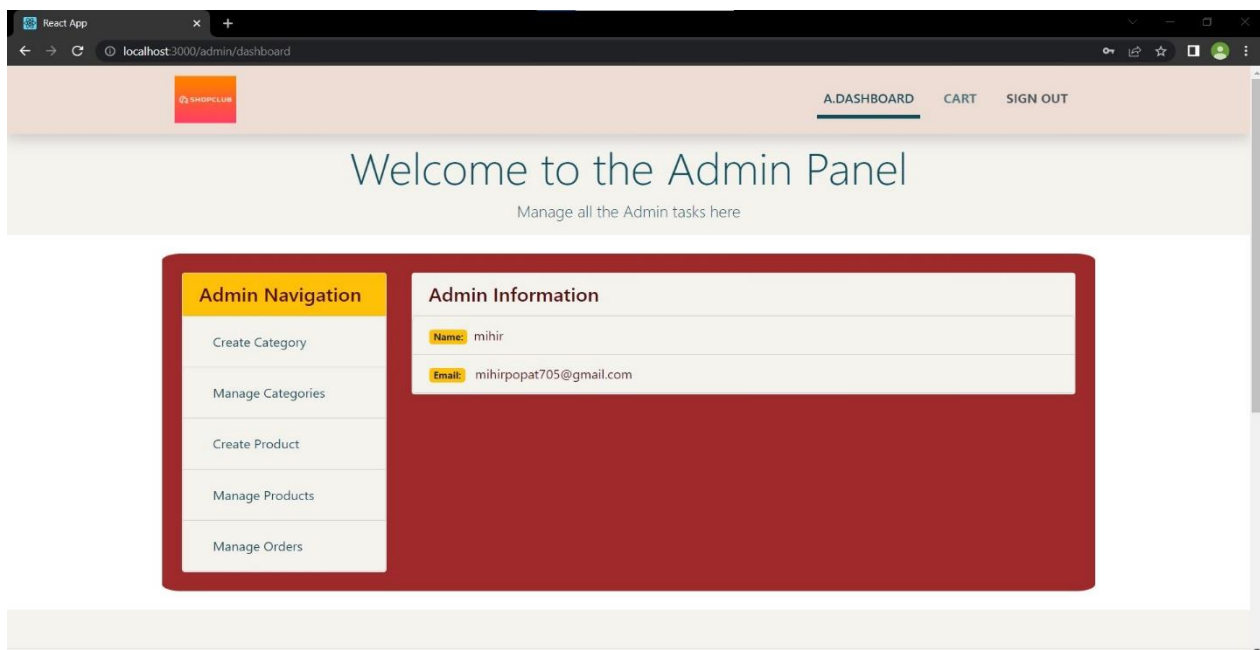
The screenshot shows a web browser window with the URL `localhost:3000/signin`. The page has a header with the **SHOPCLUB** logo and navigation links for **SIGN UP**, **SIGN IN** (which is underlined), and **CART**. The main content area features a large heading **Welcome Back** with the subtext **Sign in here!!**. Below this, there is a login form with two input fields: **Email** (containing `Sm27@gmail.com`) and **Password** (containing masked characters `*****`). A yellow **Submit** button is positioned below the password field. The footer contains three columns of text: **SECURE & SAFE ONLINE SHOPPING APPLICATION** (describing electronic commerce), **USEFUL LINKS** (with links for **Contact Us** and **SERVICES**), and **CONTACT** (providing an address in **INDIA, IN**, an email `Dshopclub0401@gmail.com`, and a phone number `011-261 000 000 7777`).

## Admin Create Category:-

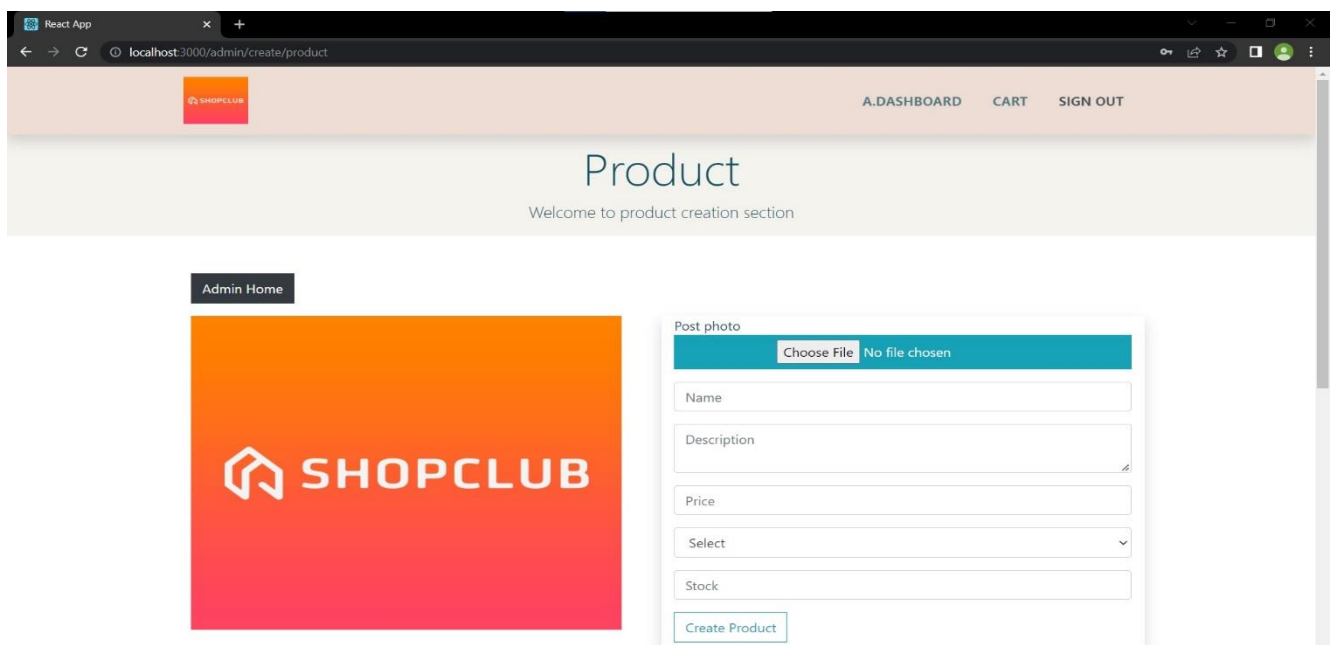


The screenshot shows a web browser window with the URL `localhost:3000/admin/create/category`. The page has a header with the **SHOPCLUB** logo and navigation links for **A.DASHBOARD**, **CART**, and **SIGN OUT**. The main content area features a large heading **Category** with the subtext **Create the category for new Product**. Below this, there is a form titled **Enter the Category** enclosed in a light blue border. The form includes a text input field with the placeholder text `eg: Summer` and a **Create Category** button. A small **Admin Home** link is located in the top left corner of the form area. The footer is identical to the first screenshot, containing **SECURE & SAFE ONLINE**, **USEFUL LINKS**, and **CONTACT** information.

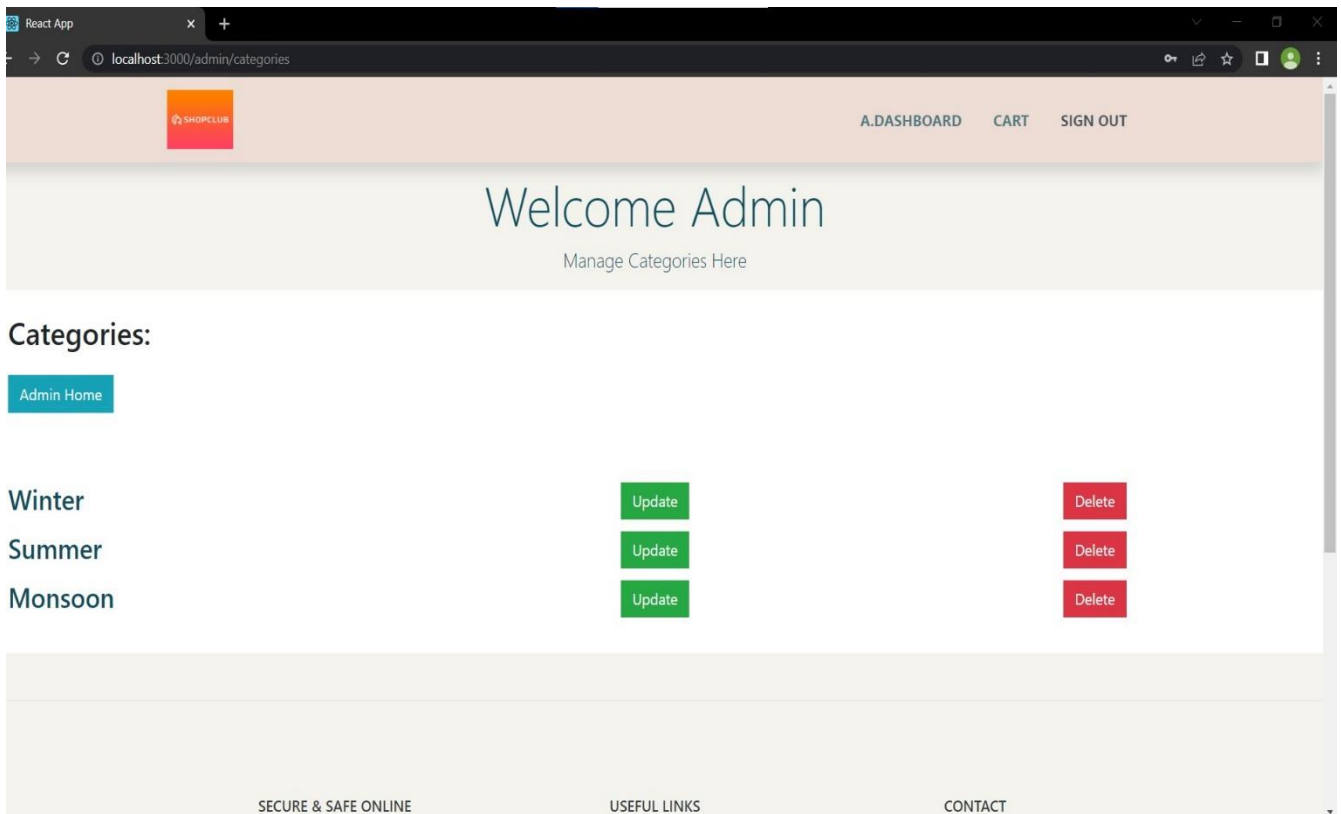
## Admin Panel Home:-



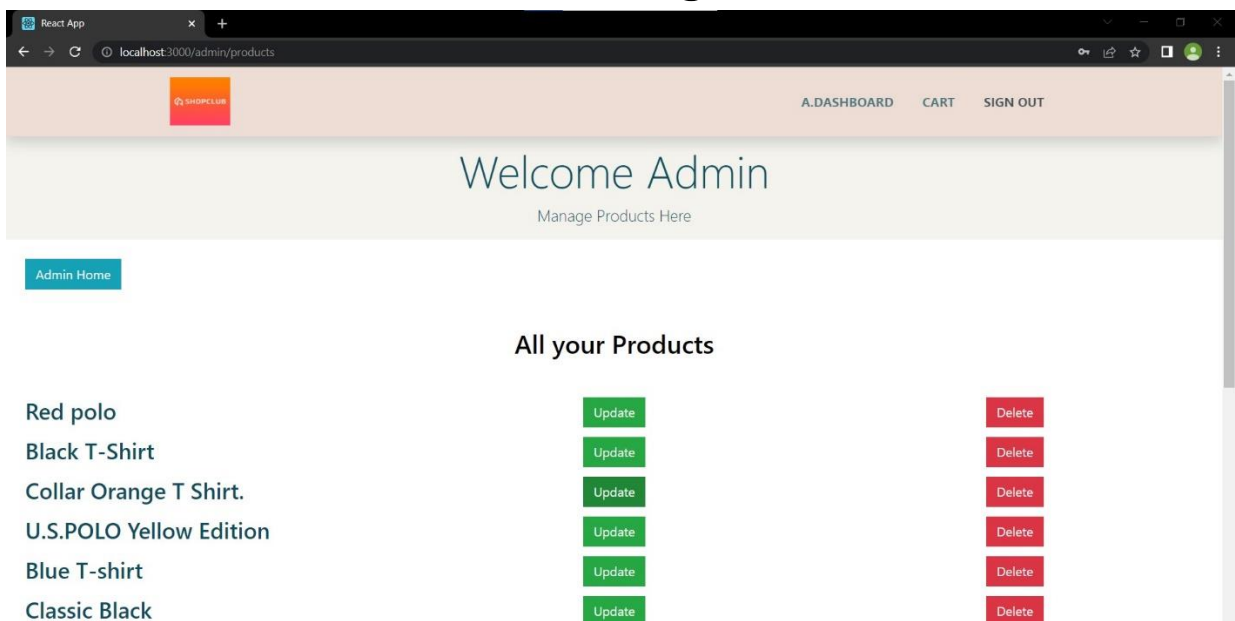
## Admin Create Product:-



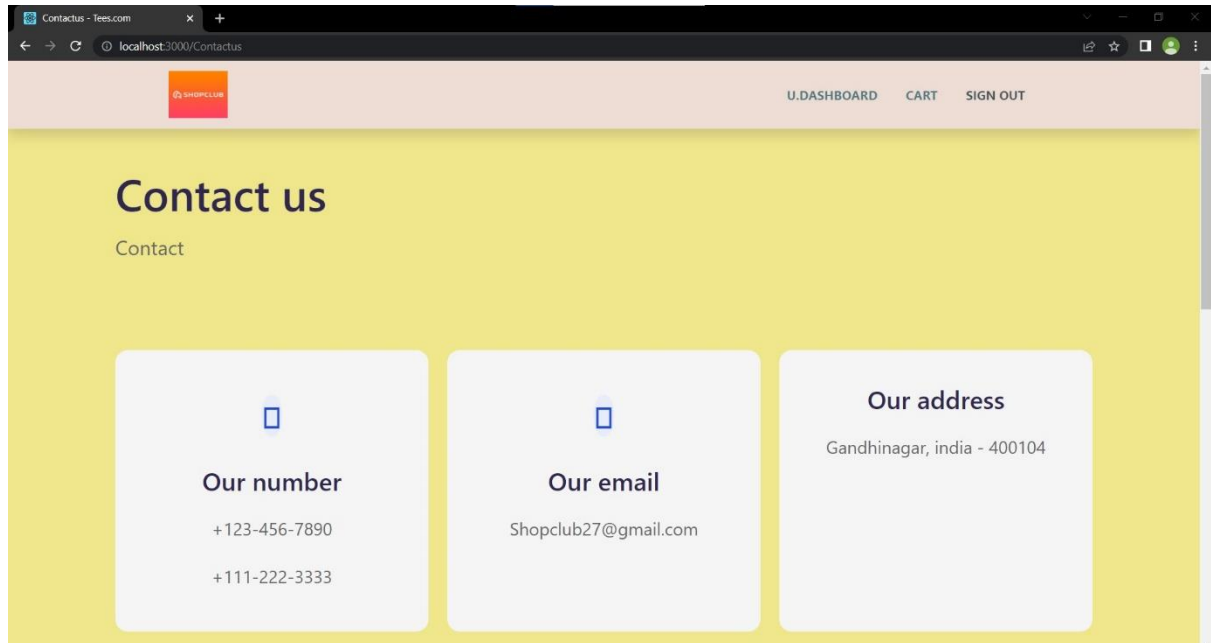
## Admin Manage Category:-



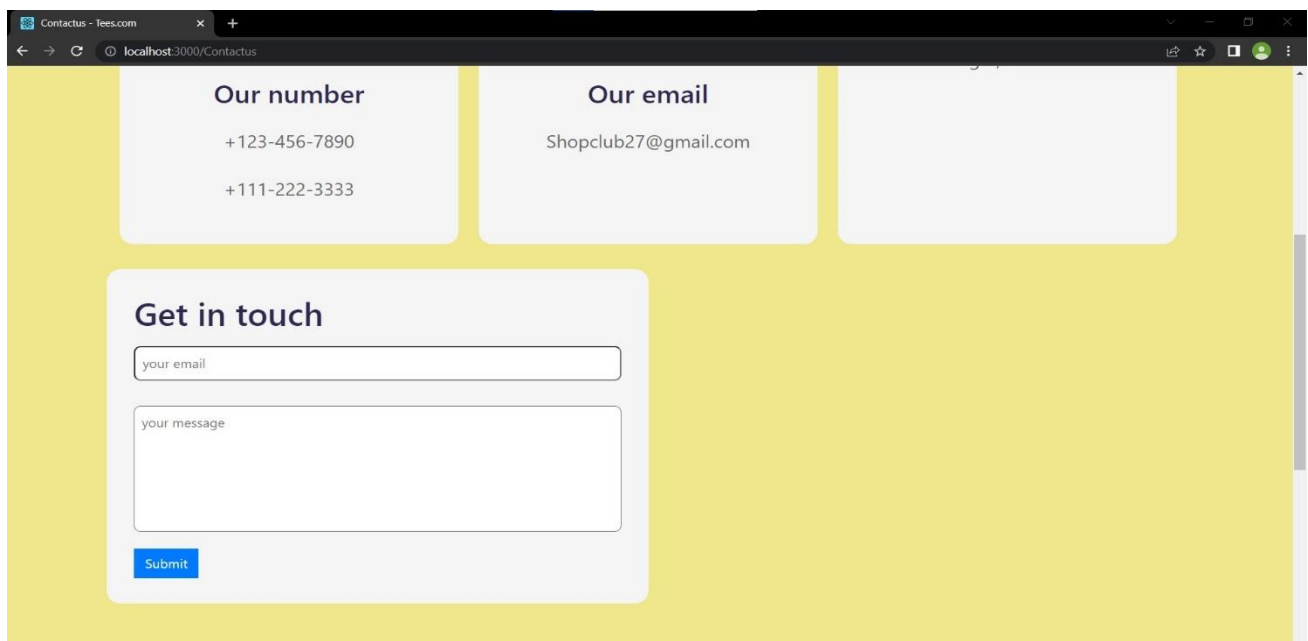
## Admin Manage Product:-



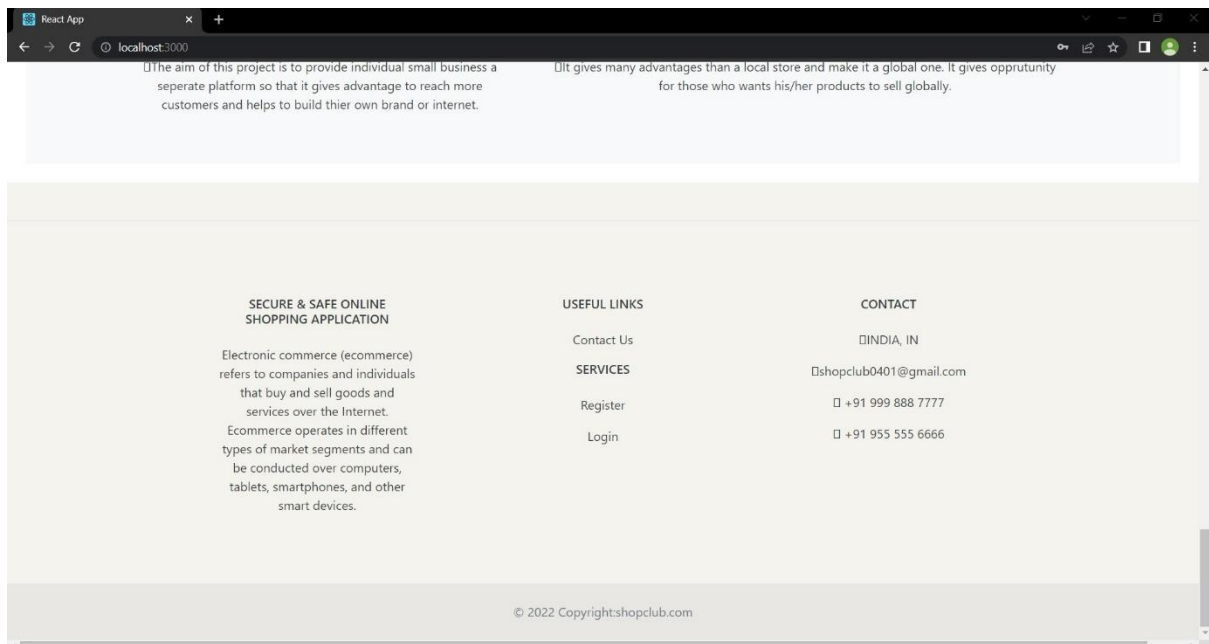
## Contact us page



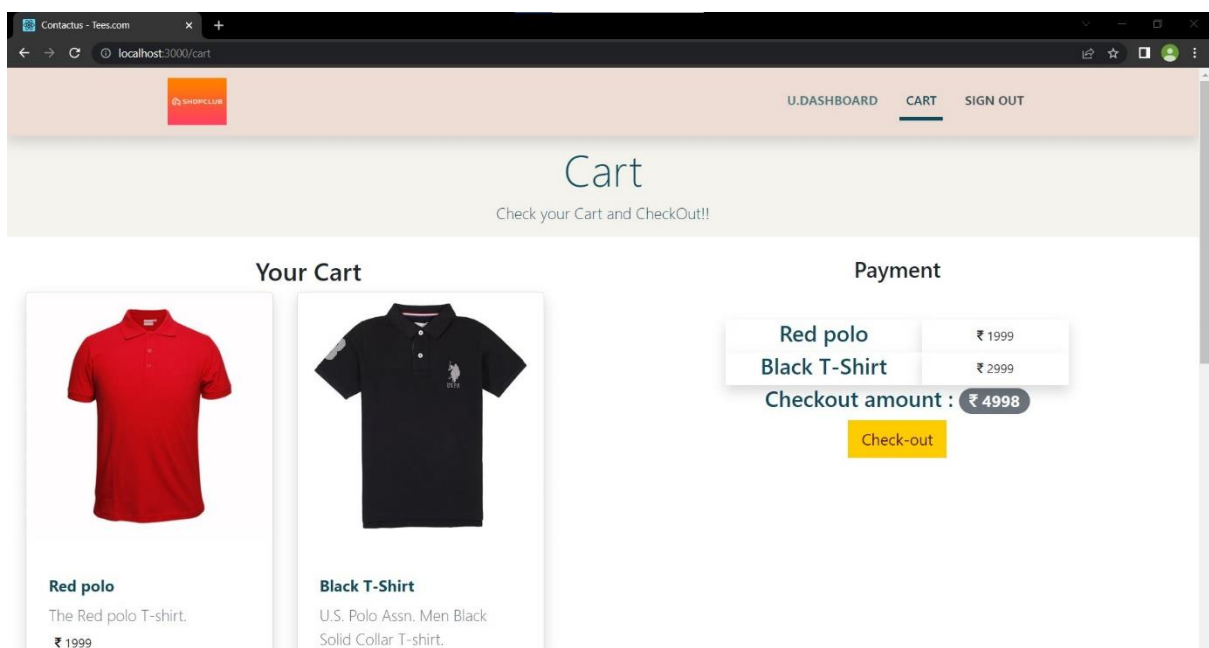
## Contact us page 2



## Footer:-

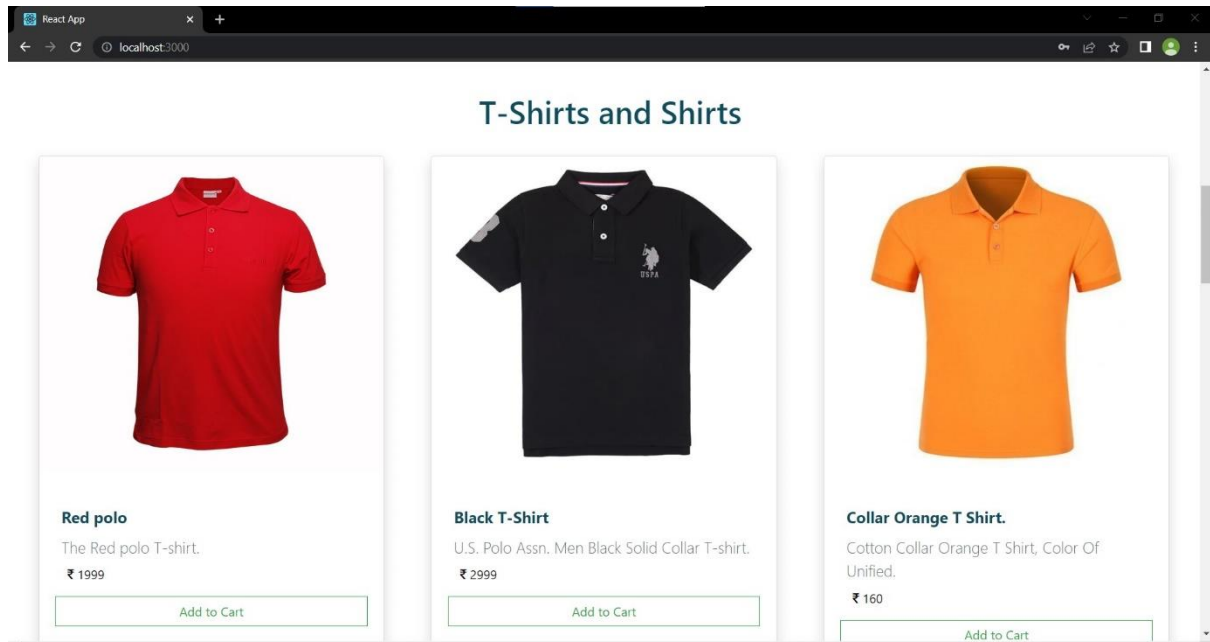


## Product cart:-

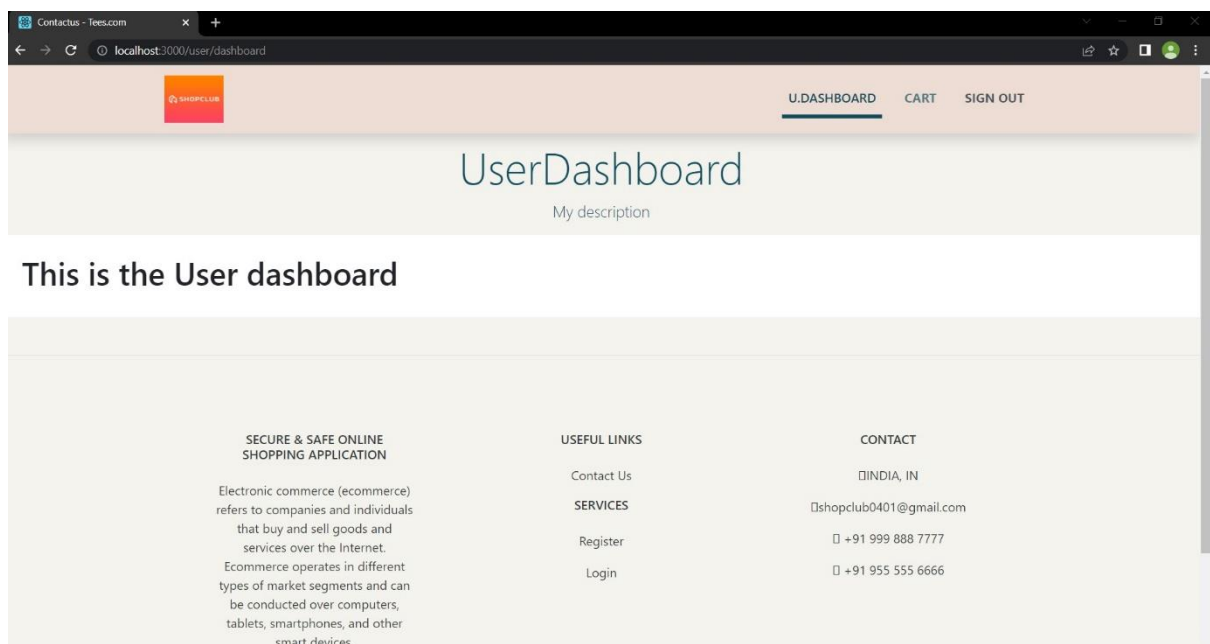




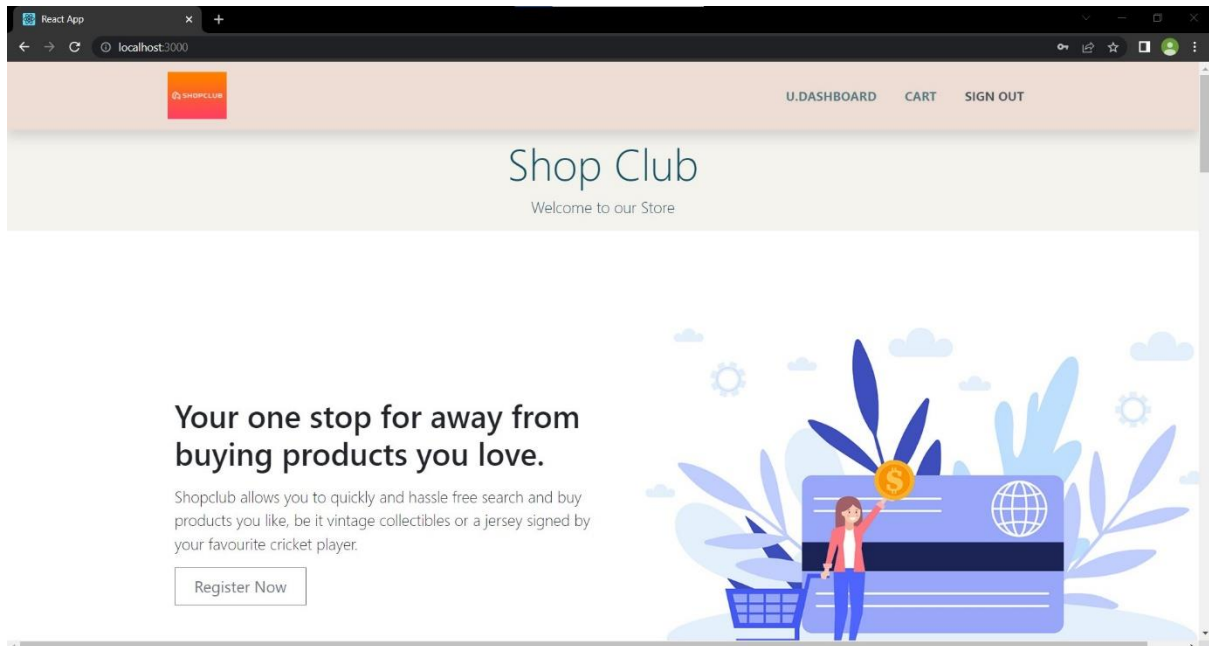
## Product Page:-



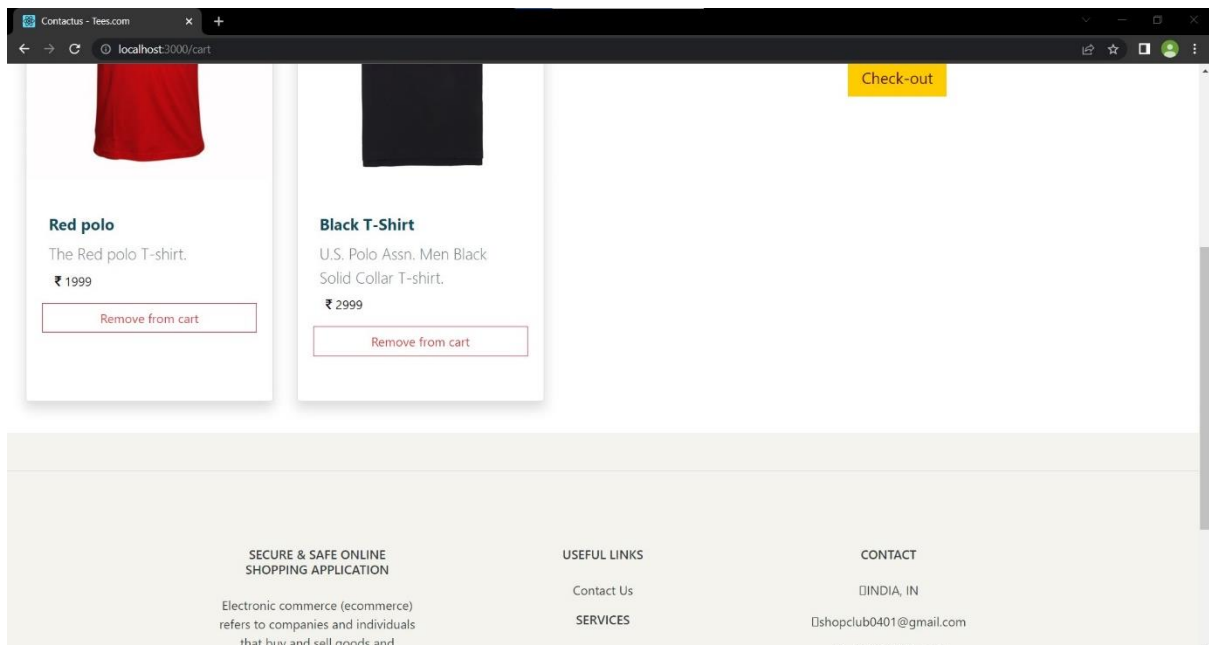
## User Dashboard :-



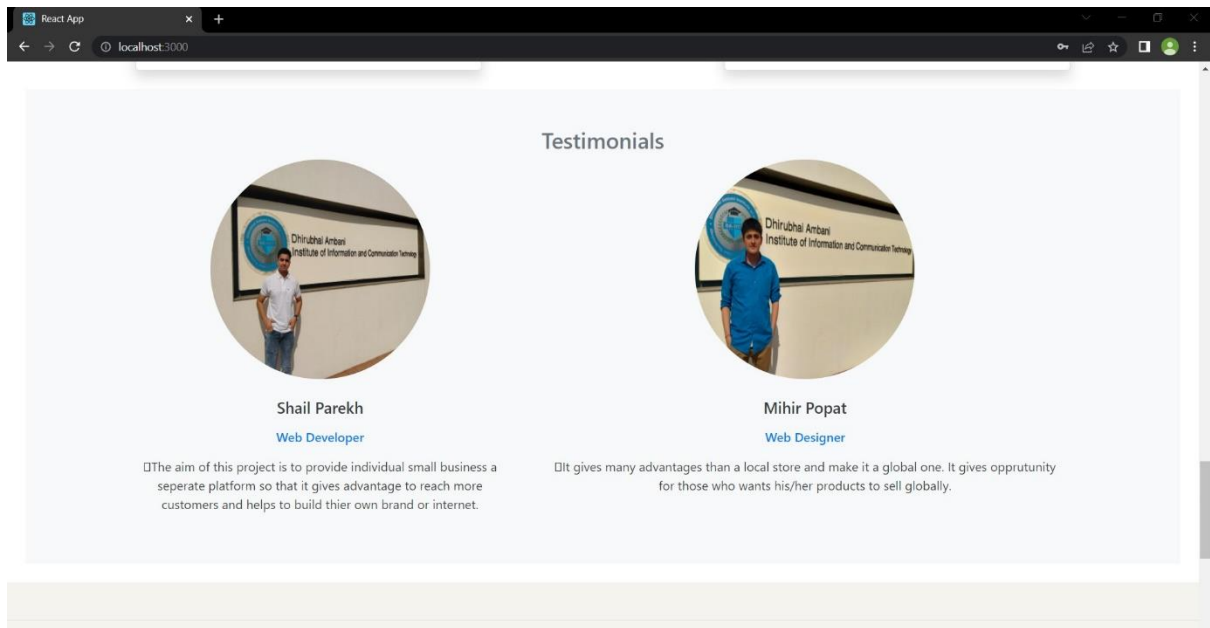
## User Home page:-



## Remove items from cart



## Testimonials:-



## Conclusion

**The final goal of our overall work is to provide an end-to-end platform for individual small business so that it gives their business presence on the internet and gives advantages to reach more customers and helps to build their own brand on the internet.**

## Google Drive Link

- [https://drive.google.com/drive/folders/1noiSr4KzoKD\\_VdweekOkkJPa7ITI6MAb?usp=sharing](https://drive.google.com/drive/folders/1noiSr4KzoKD_VdweekOkkJPa7ITI6MAb?usp=sharing)