

ORKET

An Ecommerce Website

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20BCE0468

ABSTRACT

A surprisingly large portion of small business owners may be missing out on a relatively easy way to attract and retain customers. According to the CNBC/SurveyMonkey Small Business Survey, [45%](#) of business owners said they don't have a website for their business.

It's a shocking statistic, given how common business websites are. "Having a website is like having a business card," digital marketing expert said Antara Dutta in the report. A similar sentiment can be made for e-commerce functionality. After all, customers regularly shop online or check a store's website to look at information for products. E-commerce for small business levels the playing field, helping smaller establishments compete with larger companies.

Thankfully, small business can take advantage of e-commerce rather easily. By understanding the importance of implementing an online storefront and some of your options for inexpensive, easy-to-maintain e-commerce solutions, we can help business take its next step as painlessly as possible.

Our project is Orket. This is a website to buy, sell and rent products and second-hand products. Our Aim is to provide a platform to ease the process of conventional retail system and help common people by facilitating them with this system. Orket is an interactive e-commerce solution supporting even small-scale business. Hence, this not only contributes to the society but also enables people be a part of an easy and affordable online e-commerce system.

In this website we have basically 4 modules. The modules include the functionalities for customer(buyer/seller). The customer has to register using login/sign-up portal. The registered customer can view details of products and he/she can buy or sell or rent the commodities of his/her need. The modules also contain the access of admin page on the website. The admin can change everything in the website. He has the ability to add, delete, and update any information regarding the website.

Languages used

Front End: -

- 1.HTML
- 2.CSS
- 3.JAVASCRIPT

Back End: -

1. Node.js
2. Mongo DB
3. React
4. Express

For the backend side, we would be using the Express library on top of Nodejs. We would use MongoDB as the NoSQL database to store our data as documents in JSON format.

We would use mongoose to connect to our MongoDB database.

MODULES

1. Login and Sign-Up

- Users can create an account or log in to their account
- Users can enter their user email ID and password or create a new account giving their details and login into the portal.
- Validating the login and sign-up fields.
- Users open the login page and enter credentials to log in.
- User's account information is stored to the database.

2. Home Page

- Enables user to see newly arrived items listed by sellers/admins.
- Users can select products to purchase and add that to the cart.

3. Posting Page

- Allows authorized user to create a listing for the item he/she wants to sell.
- To get a listing up in minutes and upload photos straight from user's device along with the description of the product.

4. Manage User Account Page

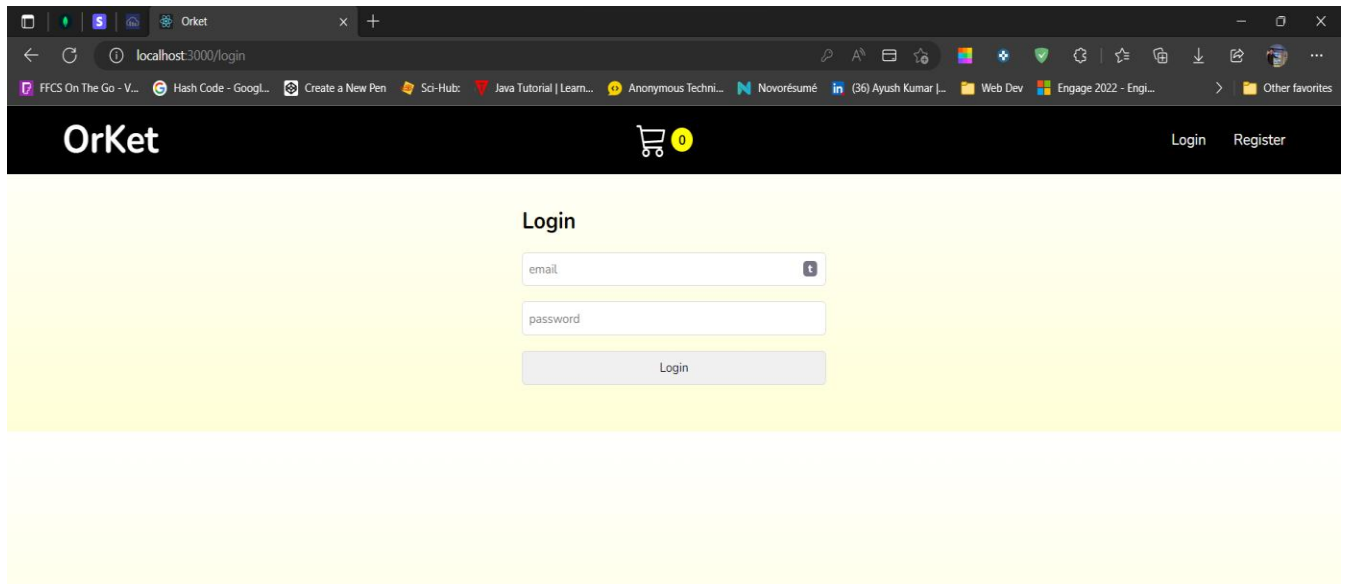
- Allows admin to manage the user record in the database by provision of operations like delete or edit or view record.

5. Manage Orders

- Allows to keep track of orders and payments done by users.

SCREENSHOTS

Login page/Sign-Up page:



A screenshot of a web browser displaying the OrKet login page. The browser's address bar shows 'localhost:3000/login'. The page has a dark header with the OrKet logo, a shopping cart icon with '0', and links for 'Login' and 'Register'. The main content area is light yellow and contains a 'Login' form with fields for 'email' and 'password', and a 'Login' button.

OrKet

0

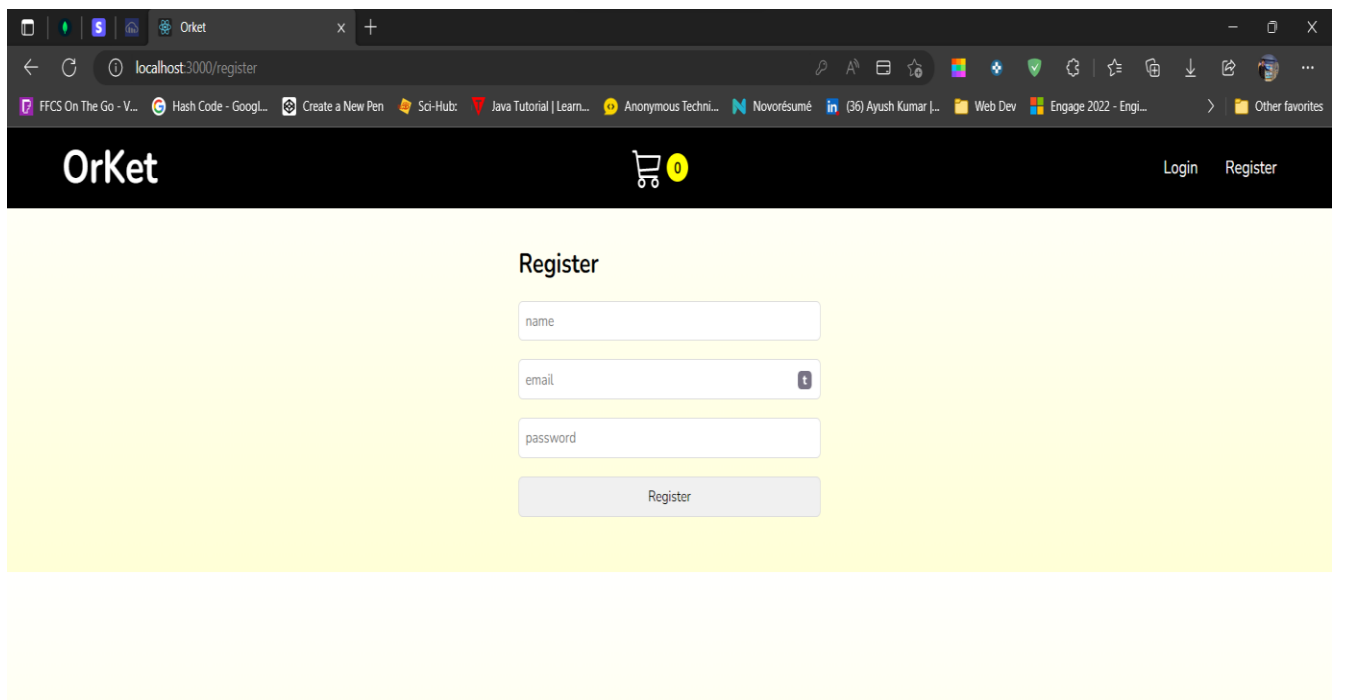
Login Register

Login

email

password

Login



A screenshot of a web browser displaying the OrKet register page. The browser's address bar shows 'localhost:3000/register'. The page has a dark header with the OrKet logo, a shopping cart icon with '0', and links for 'Login' and 'Register'. The main content area is light yellow and contains a 'Register' form with fields for 'name', 'email', and 'password', and a 'Register' button.

OrKet

0

Login Register

Register

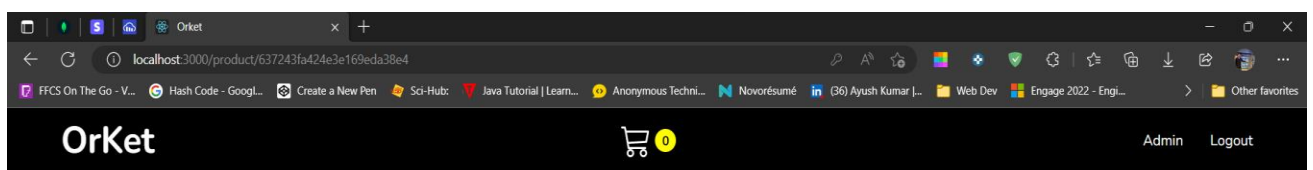
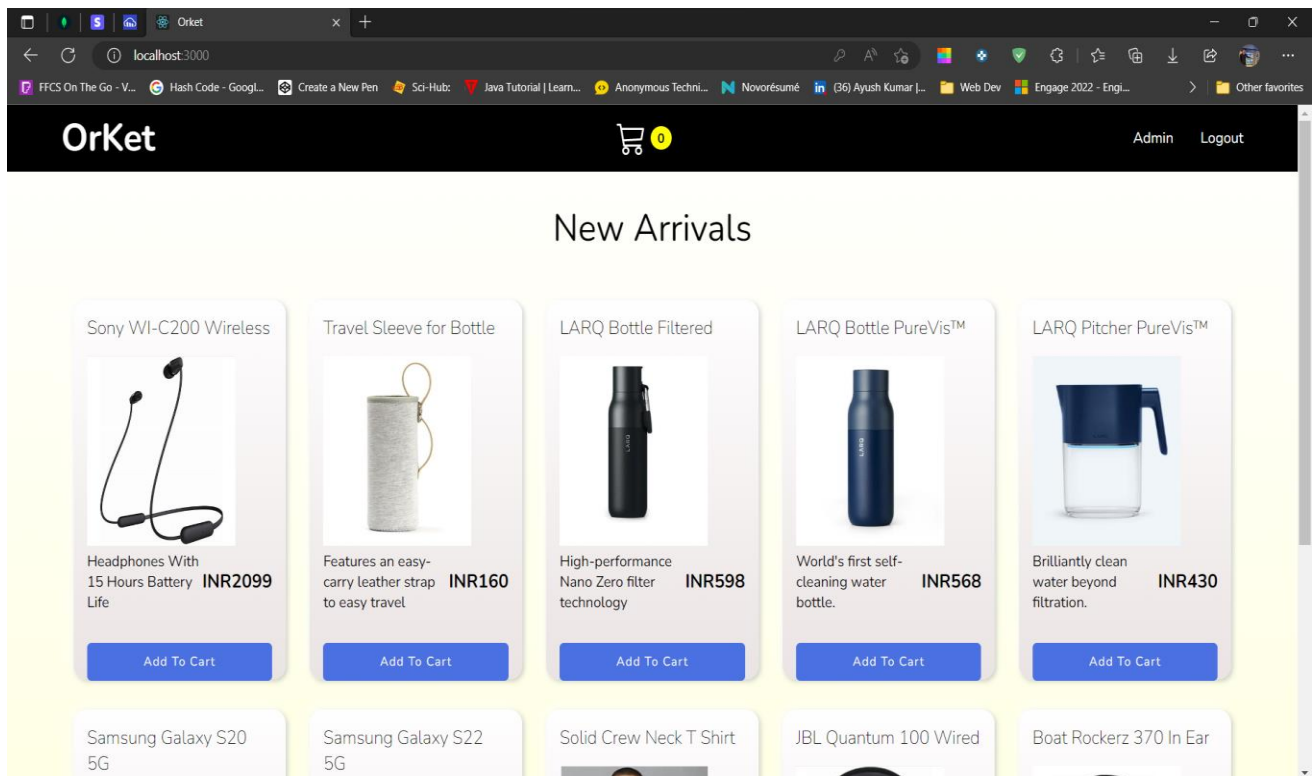
name

email

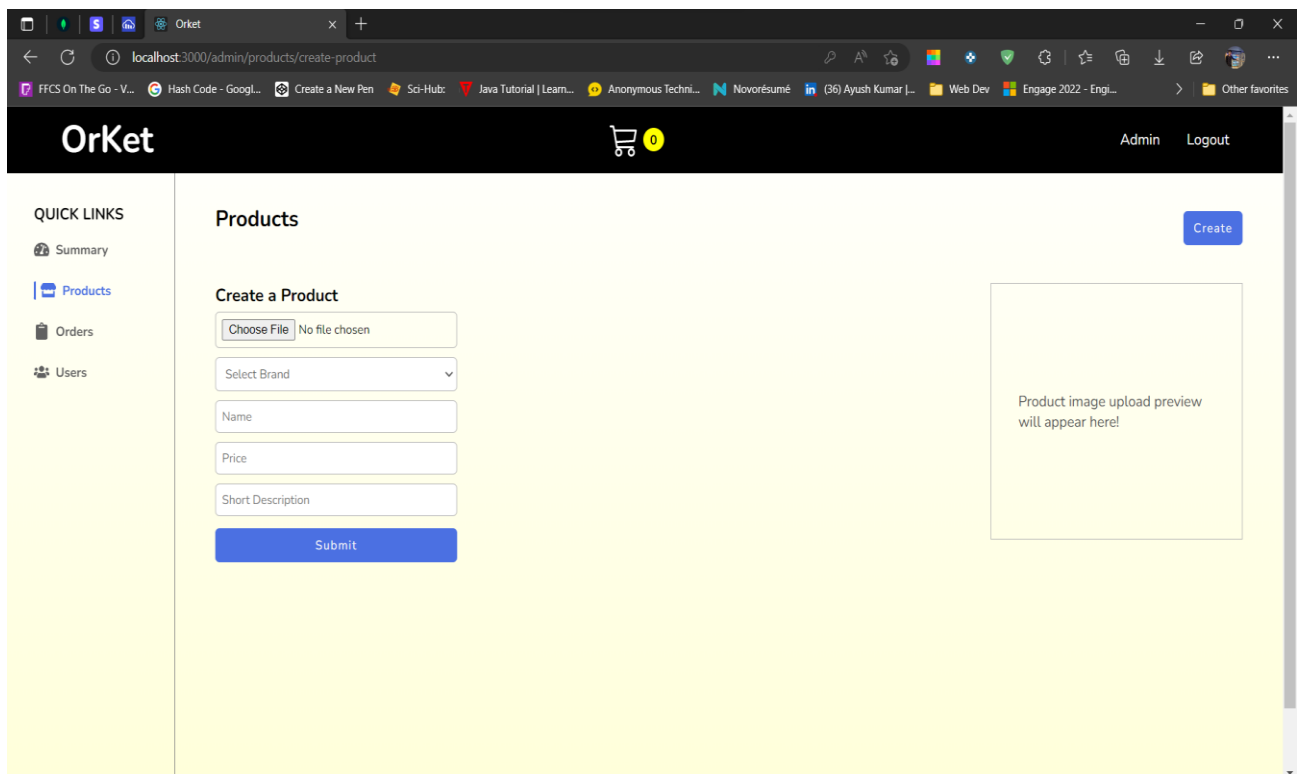
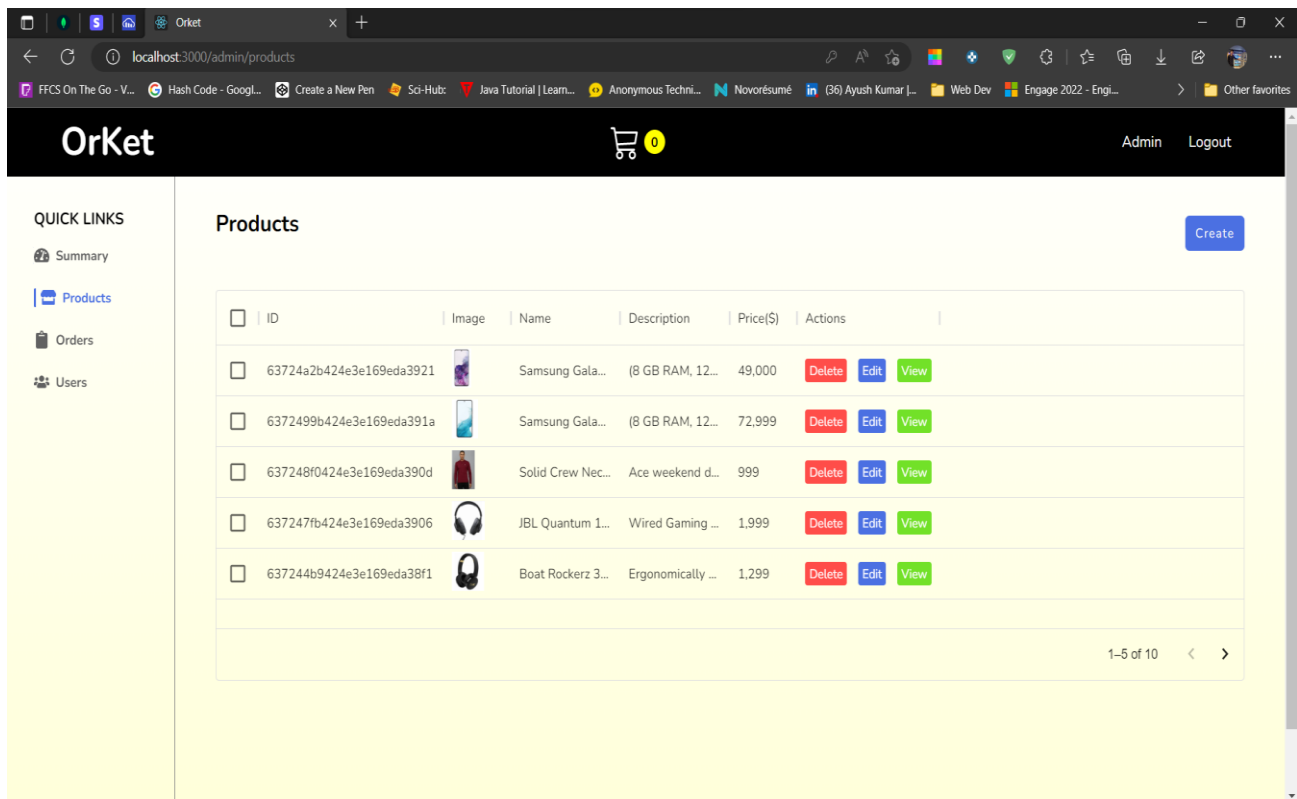
password

Register

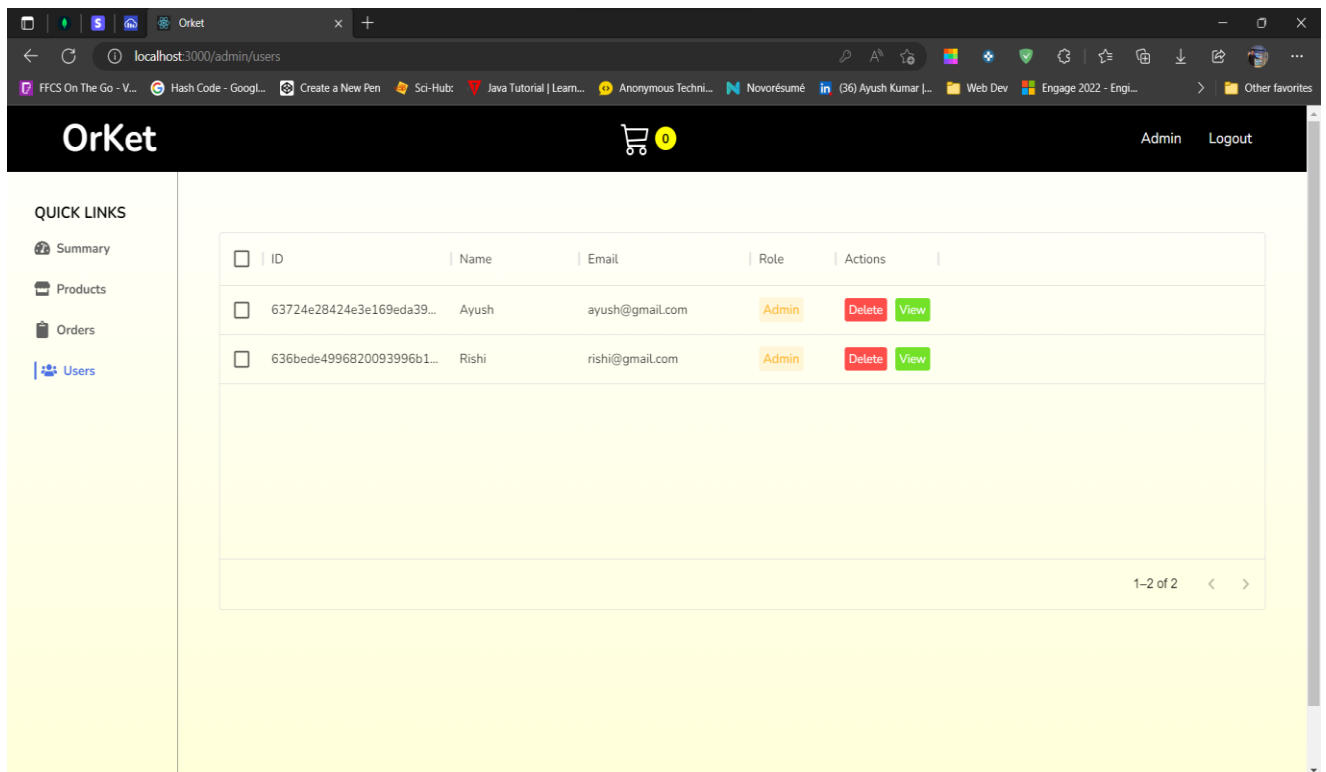
Homepage:



Posting Page:



Manage User Account Page:

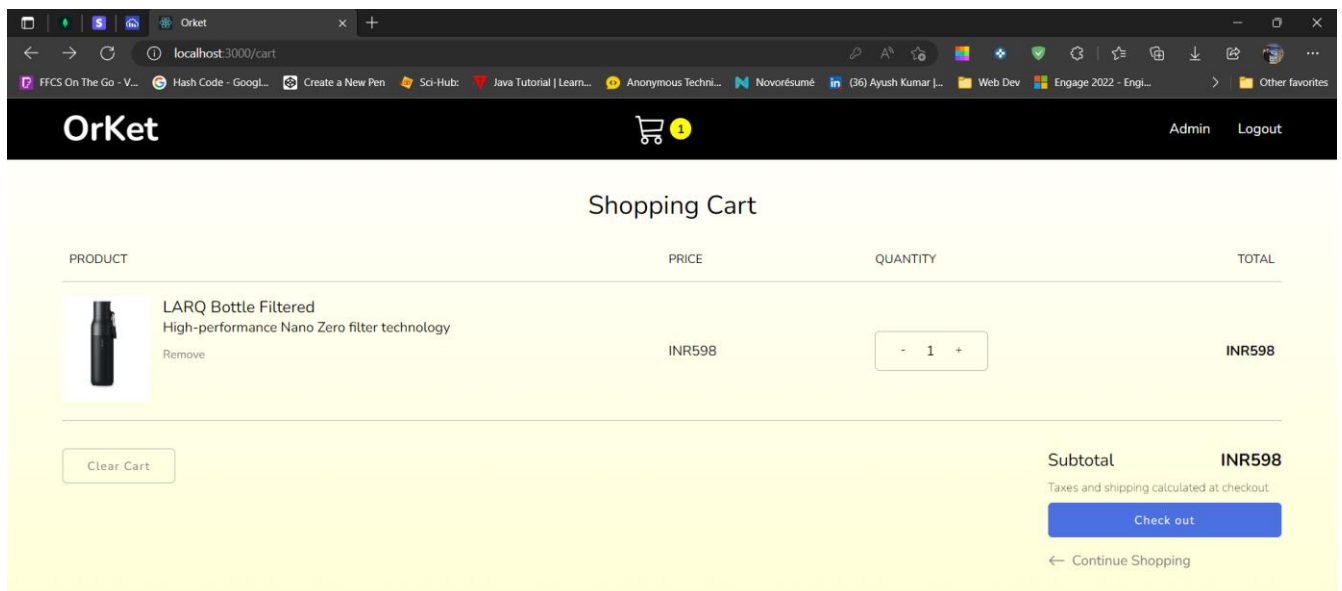


The screenshot shows the OrKet application interface for managing user accounts. The browser address bar indicates the URL is localhost:3000/admin/users. The OrKet logo is in the top left, and a shopping cart icon with a yellow badge showing '0' is in the top center. The top right contains 'Admin' and 'Logout' links. On the left, a 'QUICK LINKS' sidebar lists Summary, Products, Orders, and Users (highlighted). The main content area displays a table of users:


ID	Name	Email	Role	Actions
63724e28424e3e169eda39...	Ayush	ayush@gmail.com	Admin	Delete View
636bede4996820093996b1...	Rishi	rishi@gmail.com	Admin	Delete View

At the bottom right of the table, it shows '1-2 of 2' with navigation arrows.

Cart:



The screenshot shows the OrKet application interface for the shopping cart. The browser address bar indicates the URL is localhost:3000/cart. The OrKet logo is in the top left, and a shopping cart icon with a yellow badge showing '1' is in the top center. The top right contains 'Admin' and 'Logout' links. The main heading is 'Shopping Cart'. Below it, a table lists the items in the cart:

PRODUCT	PRICE	QUANTITY	TOTAL
 LARQ Bottle Filtered High-performance Nano Zero filter technology Remove	INR598	- 1 +	INR598

Below the table, there is a 'Clear Cart' button on the left. On the right, the 'Subtotal' is INR598, with a note 'Taxes and shipping calculated at checkout'. Below this is a blue 'Check out' button and a link to 'Continue Shopping'.

Checkout Page:

Orket **TEST MODE**

Pay Orket

₹598.00

LARQ Bottle Filtered

High-performance Nano Zero filter technology

₹598.00

Subtotal

₹598.00

Shipping

Free shipping (5-7 business days)

Free

Total due

₹598.00

Powered by [stripe](#)

[Terms](#) [Privacy](#)

Shipping information

Email

ayushkr0457@gmail.com

Shipping address

Ayush Kumar

India

R-514

VIT University

Vellore

632014

Tamil Nadu

+91 81078 44985

Shipping method

☒ Free shipping

5-7 business days

Free

☐ Next day air

1 business day

₹15.00

Payment details

Card information

4242 4242 4242 4242

05 / 29

455

VISA

☒ Billing address is same as shipping

Pay

Orket **TEST MODE**

Pay Orket

₹598.00

LARQ Bottle Filtered

High-performance Nano Zero filter technology

₹598.00

Subtotal

₹598.00

Shipping

Free shipping (5-7 business days)

Free

Total due

₹598.00

Powered by [stripe](#)

[Terms](#) [Privacy](#)

Shipping information

Email

ayushkr0457@gmail.com

Shipping address

Ayush Kumar

India

R-514

VIT University

Vellore

632014

Tamil Nadu

+91 81078 44985

Shipping method

☒ Free shipping

5-7 business days

Free

☐ Next day air

1 business day

₹15.00

Payment details

Card information

4242 4242 4242 4242

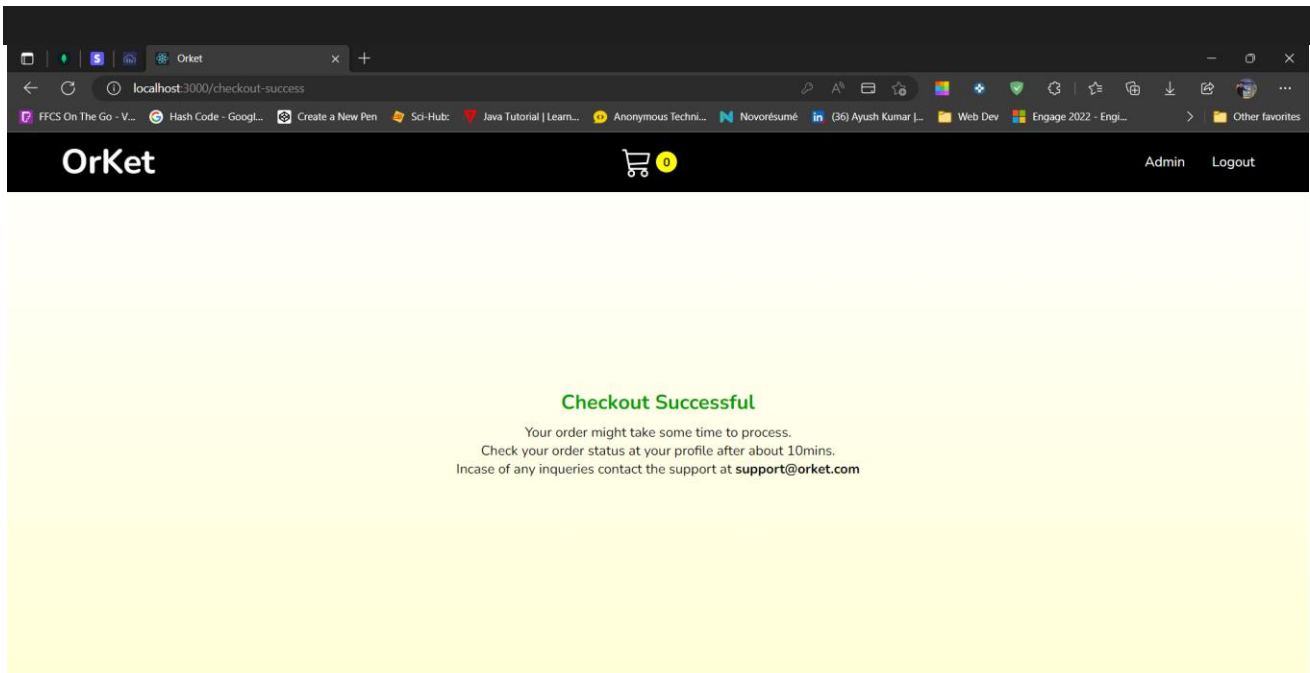
05 / 29

455

VISA

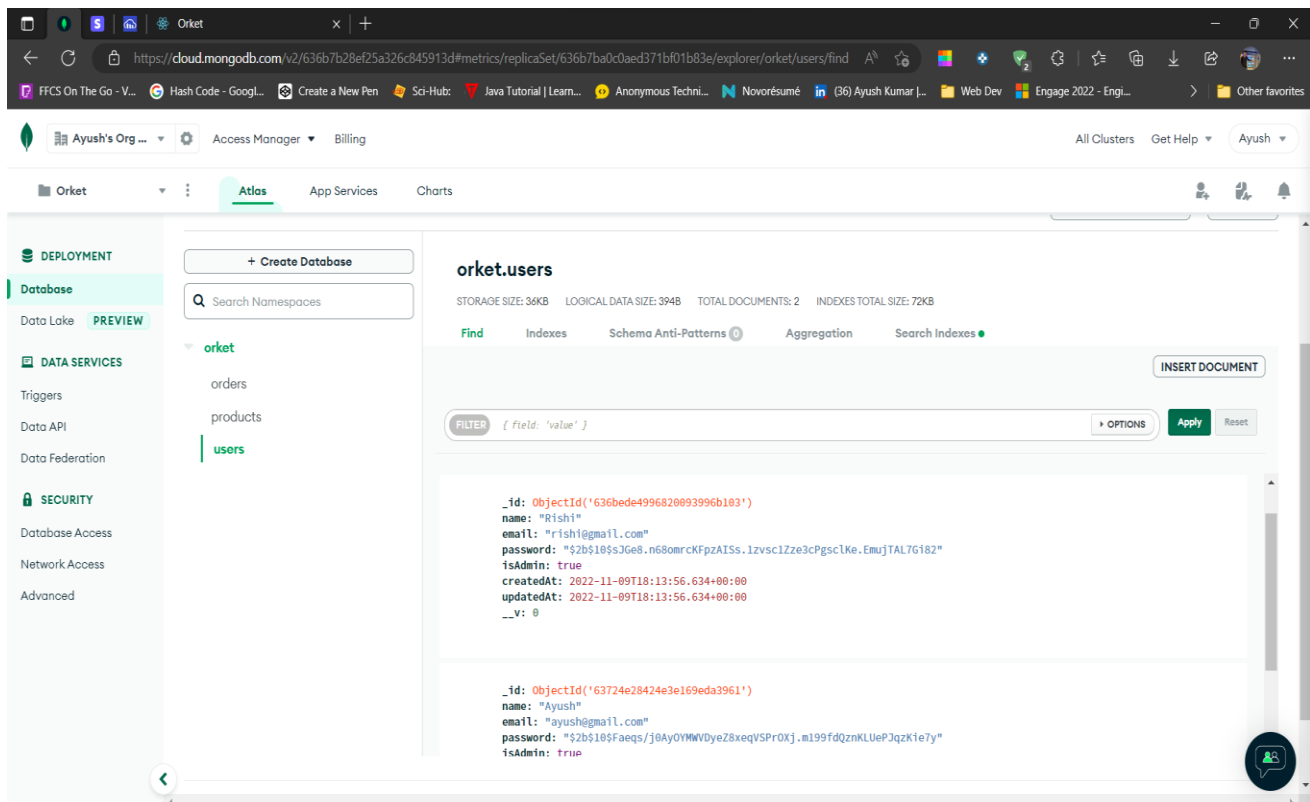
☒ Billing address is same as shipping

Processing...



We used Stripe to integrate payment into our E-Commerce website.

MongoDB Record Page:



Orket

https://cloud.mongodb.com/v2/636b7b28ef25a326c845913d#metrics/replicaSet/636b7ba0c0aed371bf01b83e/explorer/orket/products...

Ayush's Org Access Manager Billing All Clusters Get Help Ayush

Orket Atlas App Services Charts

DEPLOYMENT Database Data Lake PREVIEW DATA SERVICES Triggers Data API Data Federation SECURITY Database Access Network Access Advanced

+ Create Database

Search Namespaces

orket

orders

products

users

orket.products

STORAGE SIZE: 44KB LOGICAL DATA SIZE: 8.66KB TOTAL DOCUMENTS: 10 INDEXES TOTAL SIZE: 36KB

Find Indexes Schema Anti-Patterns Aggregation Search Indexes

INSERT DOCUMENT

FILTER { field: 'value' } OPTIONS Apply Reset

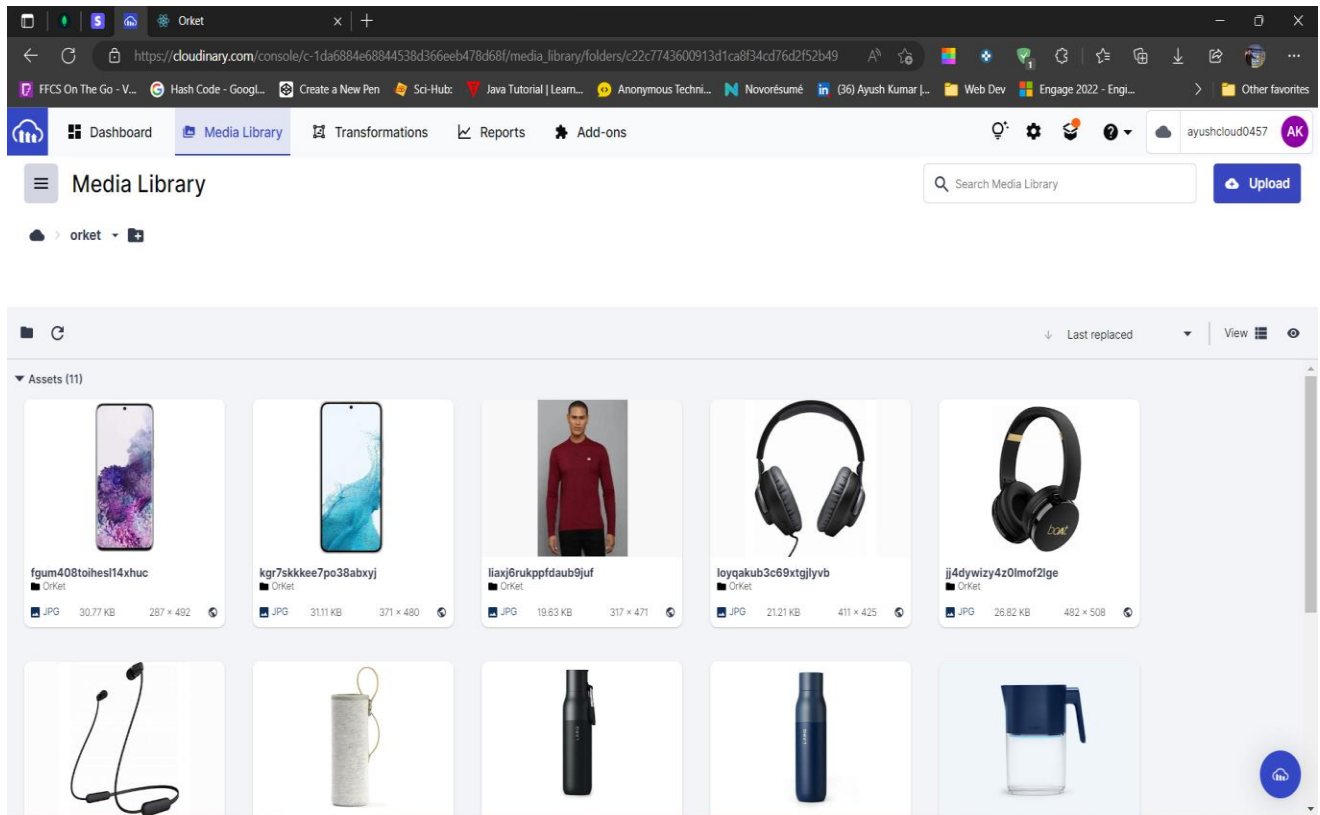
QUERY RESULTS: 1-10 OF 10

```
{
  "_id": ObjectId("636d5f12104133e10a16a3f8"),
  "name": "LARQ Pitcher PureVis™",
  "brand": "Larq",
  "desc": "Brilliantly clean water beyond filtration.",
  "price": 430,
  "image": Object,
  "createdAt": 2022-11-10T20:29:06.353+00:00,
  "updatedAt": 2022-11-10T20:29:06.353+00:00,
  "__v": 0
}
```

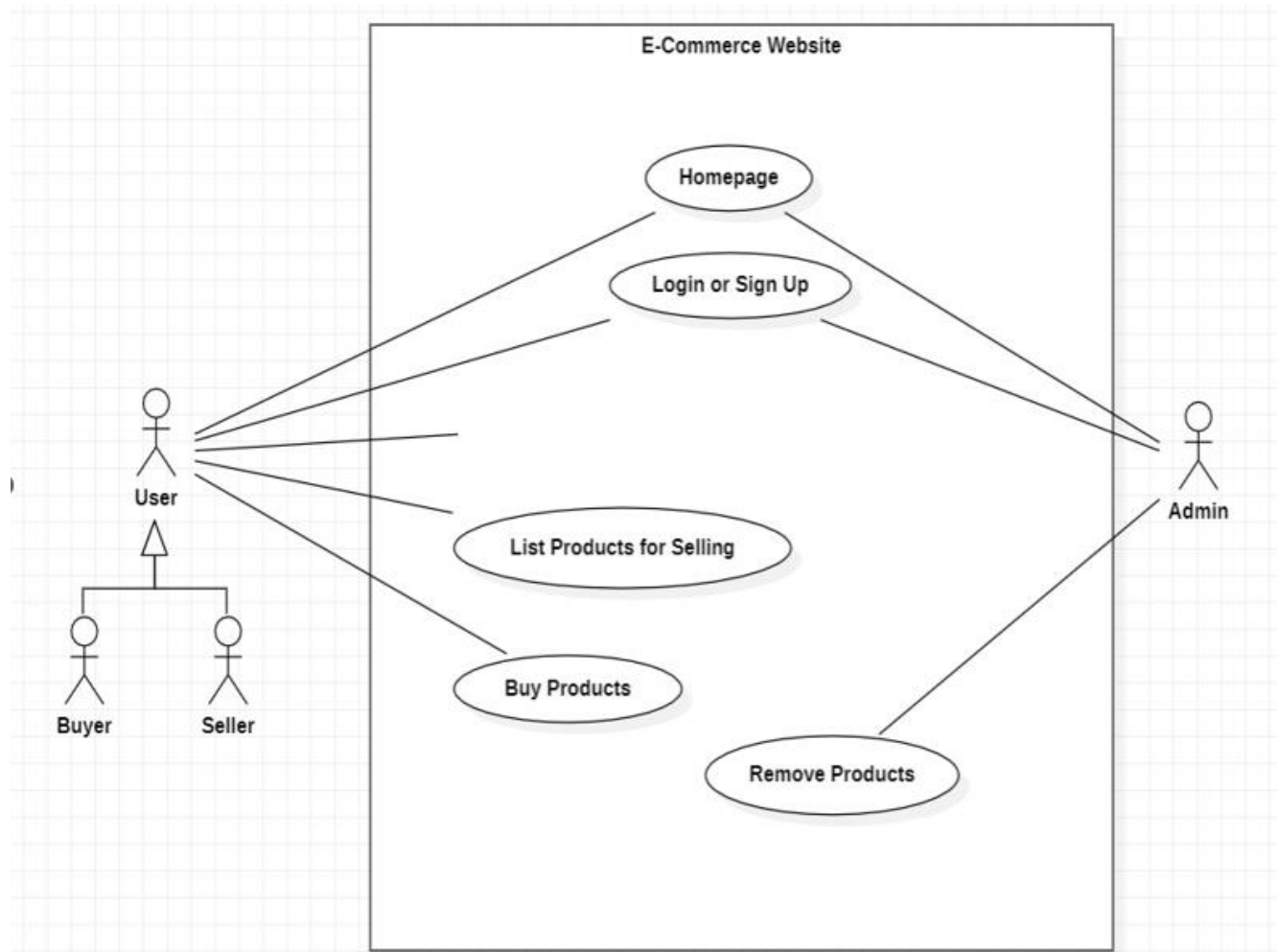
_id: ObjectId('636d5fc0104133e10a16a3ff')

Media Library:

For storing the product image, we have used cloudinary platform to achieve it.



Use Case Diagram



Database Schema

```
const mongoose = require("mongoose");

const userSchema = new mongoose.Schema(
  {
    name:
      {
        type: String,
        required: true,
        minlength: 3,
        maxlength: 30
      },
    email: {
      type: String,
      required: true,
      minlength: 3,
      maxlength: 200,
      unique: true,
    },
    password:
      {
        type: String,
        required: true,
        minlength: 3,
        maxlength: 1024
      },
    isAdmin:
      {
        type: Boolean,
        default: false
      },
  },
  {
    timestamps: true
  }
);

const User = mongoose.model("User", userSchema);

exports.User = User;

const mongoose = require("mongoose");
```

```
const productSchema = new mongoose.Schema(
  {
    name:
    {
      type: String, required: true
    },
    brand:
    { type: String, required: true
    },
    desc:
    { type: String, required: true
    },
    price:
    { type: Number, required: true
    },
    image:
    { type: Object, required: true
    },
  },
  { timestamps: true }
);

const Product = mongoose.model("Product", productSchema);

exports.Product = Product;
```

Result Analysis

Through this project we gained a deep insight on the concepts of web development. The website "OrKet" which is the name of our project is an E-commerce site. We have used programming languages such as HTML, CSS, JavaScript and React for developing the frontend of the website which the user views. The backend where the administrator can make changes to the product such as add new products or remove existing products has been done using Nodejs and React. We have used MongoDB as the database of the project.

The modules created in the project include the signup and login page for the customer to register as legitimate user. Followed by the homepage where the products being sold are enlisted user can select the products here and add it to the cart followed by buying it and through the checkout module.

The administrator privileges include a module for adding products, followed by a module for managing the customer details. Finally, we have our database in MongoDB which stores the details of customer, products and order placed.