

# **CSE3002** Internet and Web Programming

#### **Link to Code & Video Demonstration:**

https://drive.google.com/drive/folders/17UeAiz9gViJHpixSqLym78A9rI80z rup?usp=share\_link

**Faculty: -** Prof. Jayakumar K

**Title of the project: -**Orket - An Online Marketplace

Team members: -

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Lab Slot: -

L31+L32

# **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 surprising 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 5 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 and also change user roles.

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# Languages/Technologies used

# Front End: -

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

## Back End: -

- 1. Node.js
- 2. Mongo DB
- 3. Express
- 4. JSON (JWT)
- 5. Stripe API
- 6. Cloudinary

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. We use jwt to manage user tokens. We integrated stripe api to handle payments to our website and to manage orders via receipts. We used cloudinary to store the images of the products getting listed on our website.

## **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

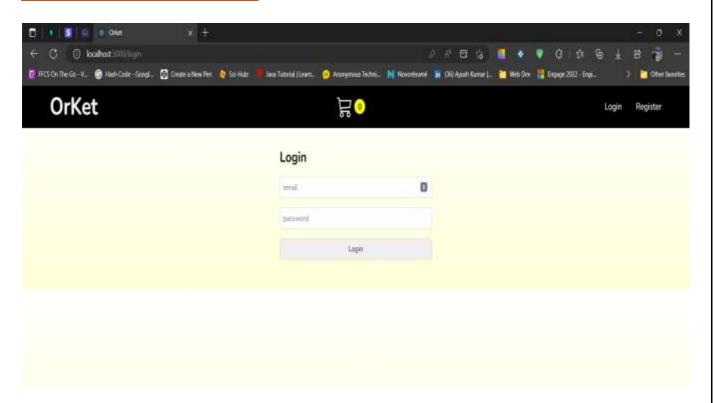
• Allows admin to manage the user record in the database by provision of operations like delete or edit or view record.

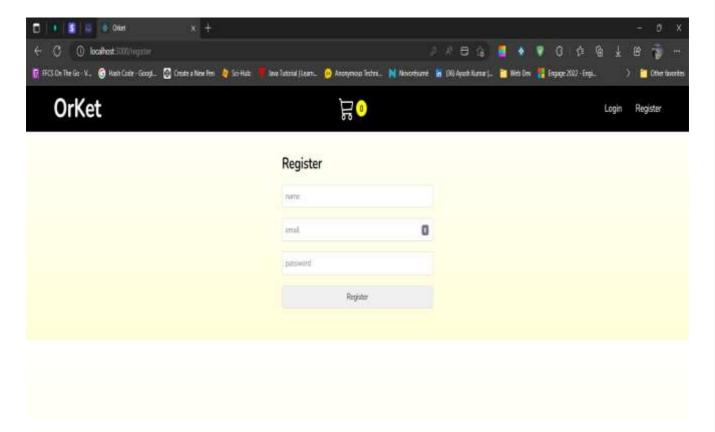
## 5. Manage Orders

- Allows to keep track of orders and payments done by users.
- Also allows to send order receipts to user after successful payment.

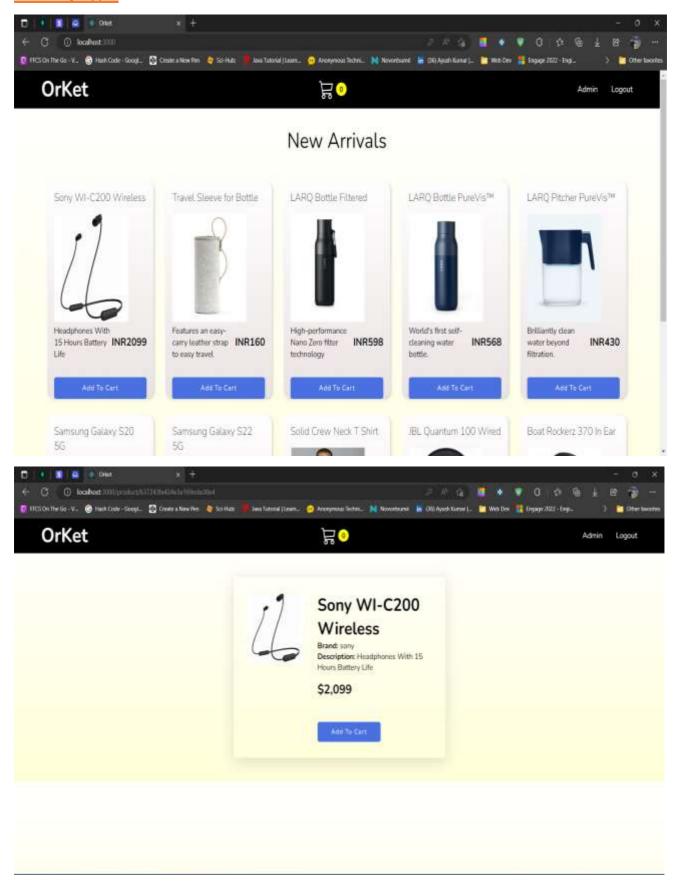
# **Implementation**

# Login page/Sign-Up page:

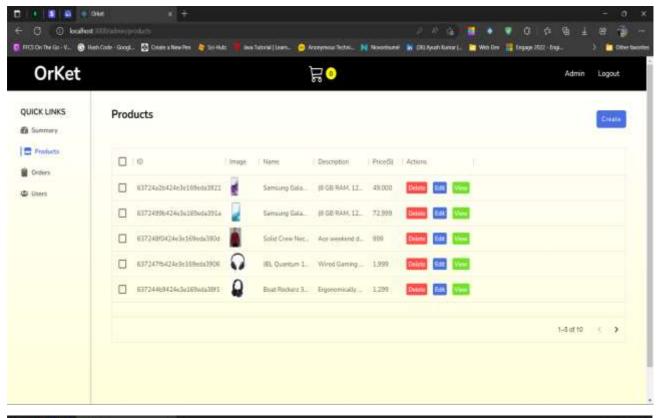


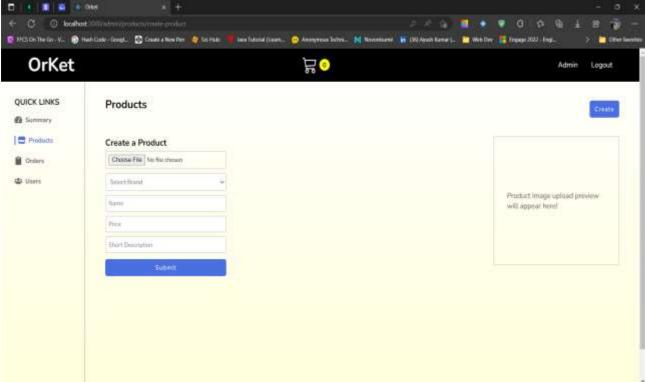


## **Homepage:**

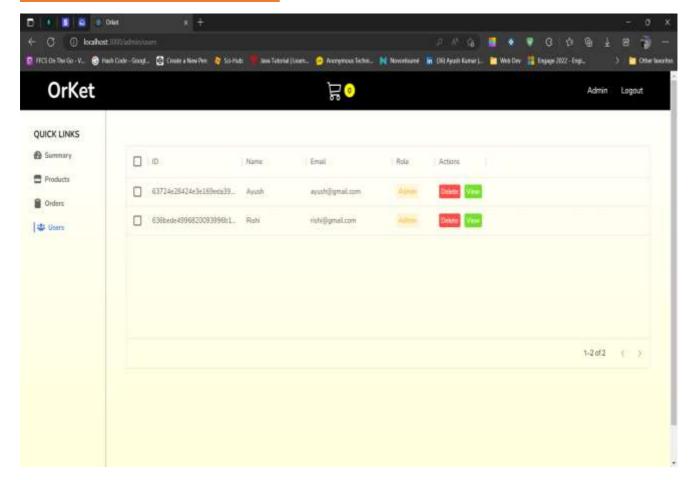


# **Posting Page:**

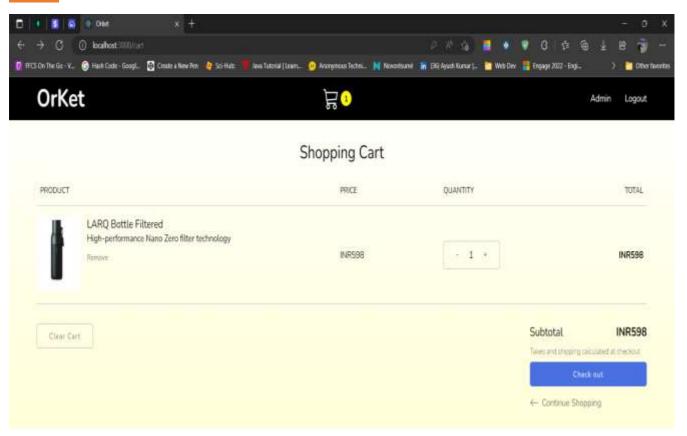




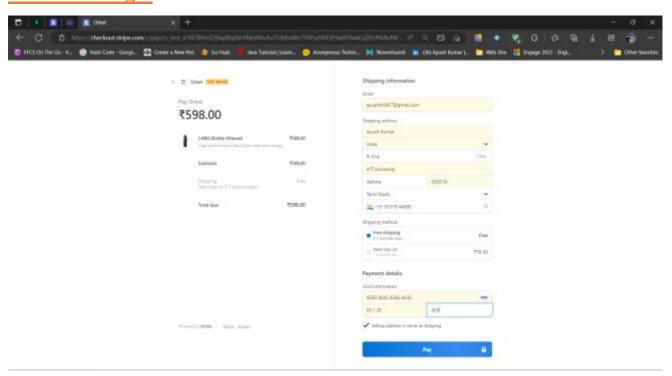
#### **Manage User Account Page:**

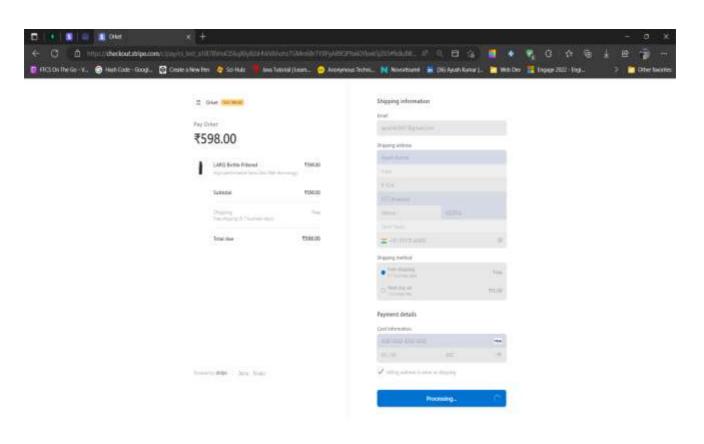


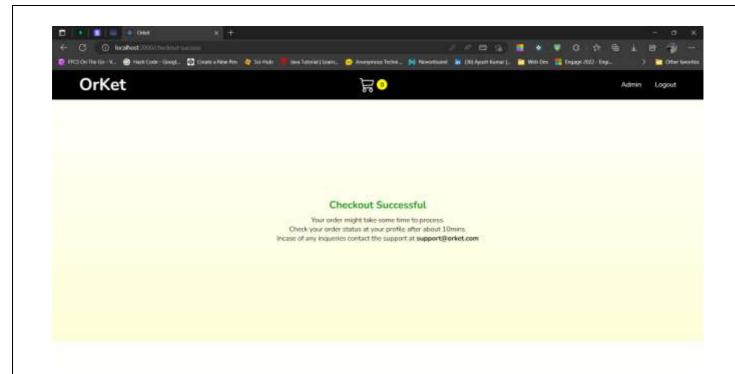
### **Cart:**



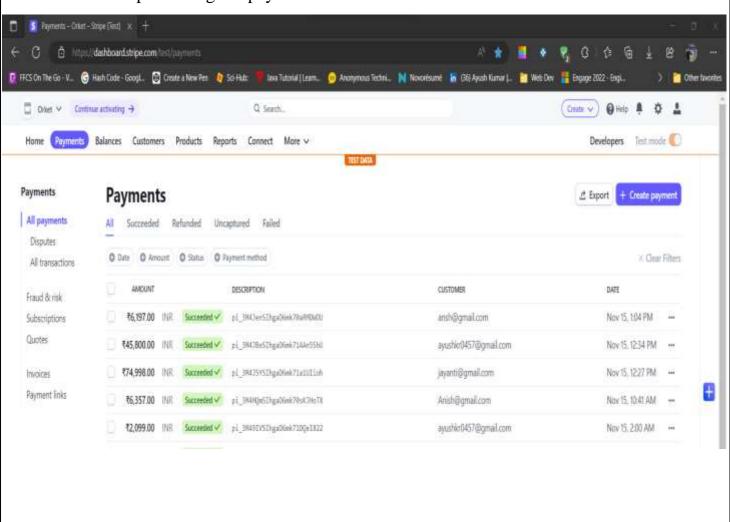
#### **Checkout Page:**







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



## **Order Receipt Page:**

## Receipt from Orket

Receipt #1301-4198

AMOUNT PAID DATE PAID ₹45,800.00

PAYMENT METHOD

Nov 15, 2022, 12:34:02 PM VISA - 4242

SUMMARY

Acer Nitro 5 AN515-57 × 1

₹45,800.00

Subtotal

₹45,800.00

Shipping (Free shipping)

Free

Amount charged

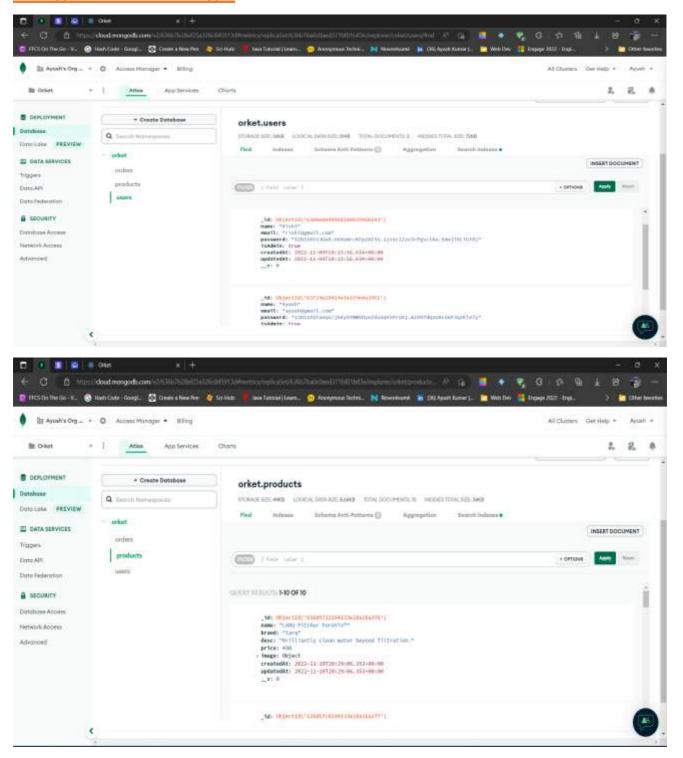
₹45,800.00

If you have any questions, contact us at ayushkr0457@gmail.com.

Something wrong with the email? View it in your browser.

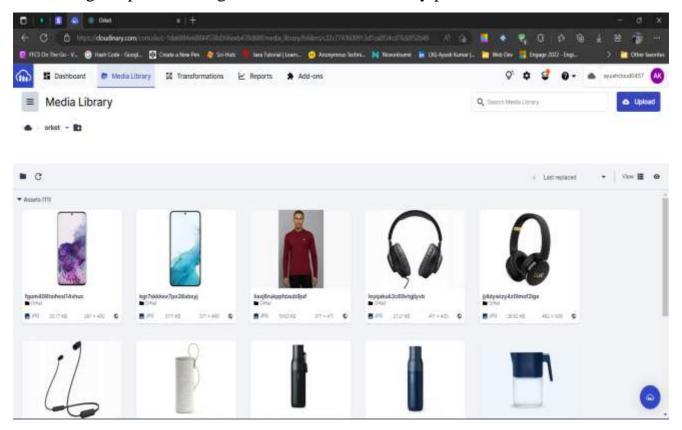
You're receiving this email because you made a purchase at Orket, which partners with Stripe to provide invoicing and payment processing.

#### **MongoDB Record Page:**

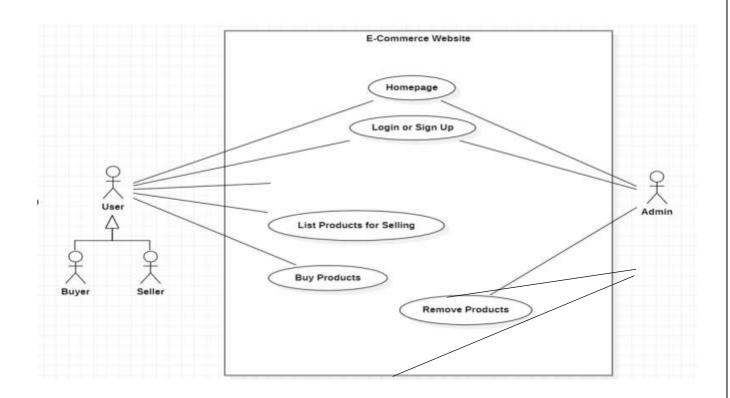


## **Media Library:**

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.

# **References:**

[1] Getting Started with Create React App - https://github.com/facebook/create-react-app [2] Available Scripts `npm start` at <a href="http://localhost:3000">http://localhost:3000</a> [3] https://facebook.github.io/create-react-app/docs/running-tests [4] Deployment (https://facebook.github.io/create-react-app/docs/deployment) [5] Documentation | Stripe. (n.d.). Stripe.com. https://stripe.com/docs [6] Cloudinary Image & Video Management - Documentation Home | Cloudinary. (n.d.). Cloudinary.com. https://cloudinary.com/documentation [7] MongoDB Documentation. (n.d.). https://Github.com/Mongodb/Docs-Bi-Connector/Blob/DOCSP-3279/Source/Index.txt. https://www.mongodb.com/docs/ [8] Managed MongoDB Hosting | Database-as-a-Service. (n.d.). MongoDB. https://www.mongodb.com/atlas [9] MDN Web Docs. (2019, May 29). MDN Web Docs. https://developer.mozilla.org/en-US/

https://reactnative.dev/docs/getting-started

*Introduction · React Native.* (n.d.). Reactnative.dev.

[10]