**E-Commerce Project**

**Features:**

* Two types of users: admin and customers.
* Admins can add, remove edit products
* Users can add to cart, check out, give reviews

**Technology:**

Front End:

* **React**

Components:

1. **Login:** User authentication
2. **Signup :** New user registration
3. **Profile :** Individual profile details
4. **Edit Profile :** Edit induvidual profile
5. **Home :** Displays products
6. **Products:** Lists the products
7. **Product:**

for admin, remove, edit buttons are displayed along with each product

1. **Reviews :** Displays all the reviews
2. **Review:** Displays each review
3. **Edit Reviews:** Edit individual review. Only the user who wrote the review can edit it.
4. **Cart:** Products can be added to the cart.
5. **Checkout:** Displays payment options.
6. ***Add Product:***Admin can add new products
7. ***Edit Product****:* Admins can edit products

Back End:

* **NodeJS Express *Edit Product***

**CRUD Operations :**

**USER CRUD:**

Signup: Post

Login: Post

Edit user: Put

**Product CURD**

Add to cart: Post

Add Product: Post

Edit Product: Put

Delete product: Delete

* **MongoDB**

**User**

const user = {

\_id: ObjectId

username: string,

email: String,

password: string

role: boolean

};

**Product**

const product= {

\_id: ObjectId,

name: String,

description: String,

price: Number,

quantity: Number,

imageURL: String,

category: String,

ratings: [Number],

reviews: [

{

userId: ObjectId,

text: String

}

]

};

**Cart**

const cart = {

\_id: ObjectId,

userId: ObjectId,

items: [

{

productId: ObjectId,

quantity: Number

}

]

};

**Order**

const order = {

\_id: ObjectId,

userId: ObjectId,

items: [

{

productId: ObjectId,

quantity: Number,

price: Number

}

],

totalAmount: Number,

orderDate: Date

};

**Authentication Token**

const authToken = {

\_id: ObjectId,

userId: ObjectId,

token: String

};