

Commerce Craft - E-commerce Web Application

Commerce Craft is a full-stack e-commerce web application built with Node.js, Express, MongoDB, and vanilla HTML/CSS. It allows customers to browse products, manage their cart, and place orders. Admins have additional privileges to manage products securely using JWT-based authentication.

Features

User Features

- User Registration and Login (JWT-secured)
- Browse product catalogue
- Add items to cart
- View and remove items from cart
- Place orders
- View order history

Admin Features

- Add new products
- Edit existing products
- Delete products

🔒 Security

- JWT-based authentication
 - Role-based access control (admin/customer)
 - Protected routes for sensitive operations
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Technologies Used

Node.js Backend server

Express.js API routing framework

MongoDB Database

Mongoose ODM for MongoDB

HTML/CSS Frontend interface

Folder Structure

```
comercecraft/
├── server/
│   ├── config/
│   │   └── db.js
│   ├── middleware/
│   │   └── auth.js
│   ├── routes/
│   │   ├── auth.js
│   │   ├── product.js
│   │   ├── cart.js
│   │   └── order.js
│   ├── models/
│   │   ├── user.js
│   │   ├── product.js
│   │   ├── cart.js
│   │   └── order.js
│   └── server.js
└── frontend/
    ├── index.html
    ├── cart.html
    ├── orders.html
    ├── login.html
    ├── register.html
    ├── js/
    │   ├── api.js
    │   ├── cart.js
    │   ├── orders.js
    │   └── auth.js
```

🔍 Manual Testing Checklist

Feature	Test Description	Status
User Registration	New user can register successfully	Pass
User Login	Existing user can log in and receive token	Pass
Product Listing	Products are fetched and displayed	Pass
Add to Cart	Logged-in user can add products to cart	Pass
View Cart	Cart displays all added items	Pass
Remove from Cart	Cart item can be removed	Pass
Place Order	Order placed and saved to database	Pass
View Orders	User can see order history	Pass

Token-based Protection	Cart/Orders not accessible without login	Pass
Admin Role Test	Admin can create/update/delete products	Pass

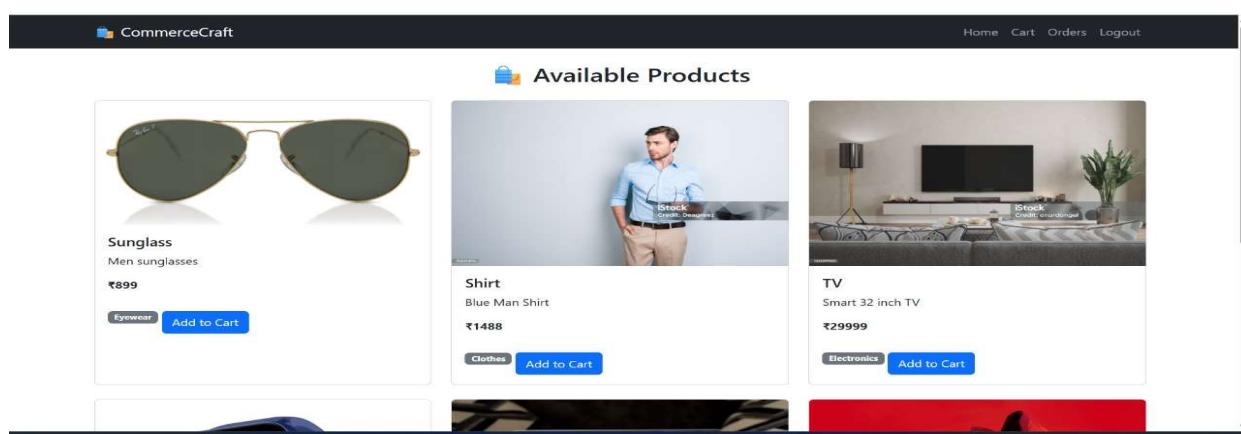
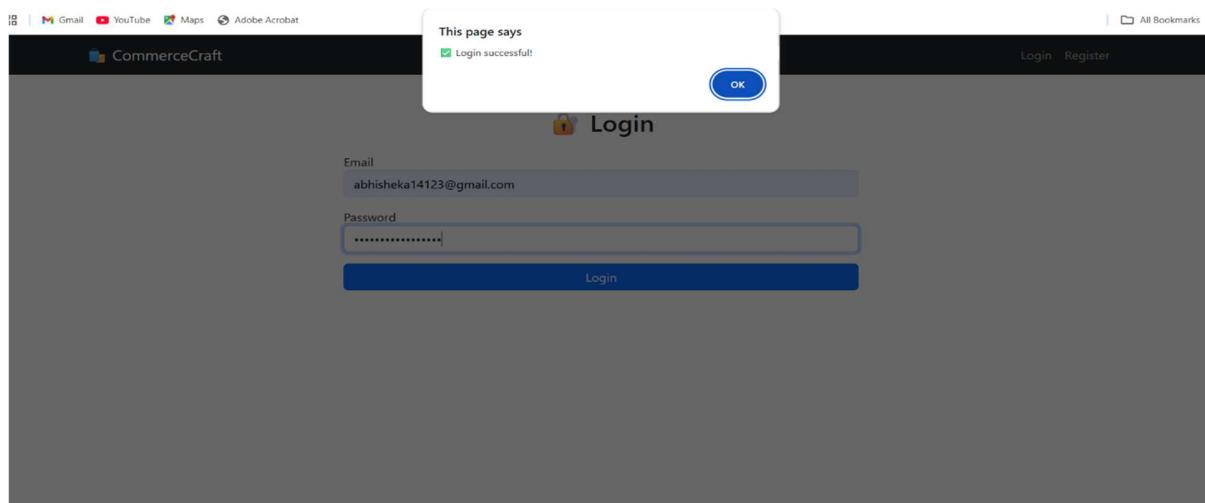
Authentication

- JWTs are stored in localStorage
- Admin role verified in protected routes
- Unauthorized users are redirected

Deployment

- Backend deployed via **Render**
- URL: <https://commercecraft-backend.onrender.com>
- Frontend can be served locally or via GitHub Pages / Netlify

Screenshots



Your Cart

Product	Price	Qty	Subtotal	
Shirt	₹1488	2	₹2976	<button>Remove</button>
TV	₹29999	1	₹29999	<button>Remove</button>

Total: ₹32975

[Place Order](#)

Future Enhancements

- Add search and filter options
- User profile and address book
- Payment gateway integration
- Admin dashboard UI

Acknowledgements

This project was built as part of the [Your College Name] curriculum to demonstrate full-stack web development with secure backend integration.

Author

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