

# **React Assignment 3:**

## **ShoppYGlobe E-commerce Application**

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# PROJECT OVERVIEW :

A modern, browser-based shopping cart application built with **React**, **Javascript**, and **CSS**.

It simulates a simplified e-commerce user experience — from browsing products to managing a cart and checking out. The app's architecture emphasizes **component-based UI**, **unidirectional data flow**, and clean **state management**.

## **This Web-App comprises of the following functionalities:**

- Displays a list of products with images, titles, and prices
- Allows users to view detailed information about each product
- Provides real-time search functionality with highlighted results
- Enables users to add products to the cart
- Supports increasing, decreasing, and removing items from the cart
- Automatically updates cart quantity and total price
- Implements global state management using Redux Toolkit
- Includes a smooth checkout flow with order summary
- Handles empty cart and no-result search states gracefully
- Provides responsive design for mobile, tablet, and desktop screens
- Displays a custom 404 page for invalid routes

# PROJECT STRUCTURE :

START



Home Page  
(Product List)



User clicks Product



Product Detail Page



Add to Cart



Cart State Updated (Redux)



Cart Page



— Increase Quantity



— Decrease Quantity



— Remove Item



Cart Total Calculated



Proceed to Checkout



Checkout Form  
(Shipping + Delivery Option)



Order Summary



Order Placed



Thank You Page



END

Github : <https://github.com/chaitali9497/ecommerce-cart>

Live : <https://ecommerce-cart-7oem.vercel.app/>

## Flow Explanation:

This web application is built using **Vite-React** for the user interface and **Redux Toolkit** for centralized state management. The core business logic revolves around product handling, cart operations, and smooth navigation.

### ♦ Product Data Handling

- Product data is fetched using a **custom React hook**.
- The fetched data is stored locally in component state and rendered dynamically.
- Search functionality is implemented with **debouncing** to improve performance and avoid unnecessary re-renders.

### ♦ State Management (Redux Toolkit)

- The cart logic is handled using a Redux **slice** (**CartSlice**).
- Actions such as **add to cart**, **increase quantity**, **decrease quantity**, and **remove item** update the global cart state.
- The cart automatically checks for existing items to avoid duplication and updates quantity accordingly.

### ♦ Cart & Price Calculation

- Cart totals, item quantities, shipping charges, and discounts are calculated dynamically.
- Any change in quantity instantly updates the subtotal and final amount.

- Prices are formatted consistently to maintain accuracy and clarity.

#### ♦ **Routing & Navigation**

- **React Router** is used for page navigation (Home, Product Detail, Cart, Checkout).
- Invalid routes are handled using a custom **404 Not Found** page.
- Browser back navigation is managed to prevent unintended navigation after checkout.

#### ♦ **User Experience Enhancements**

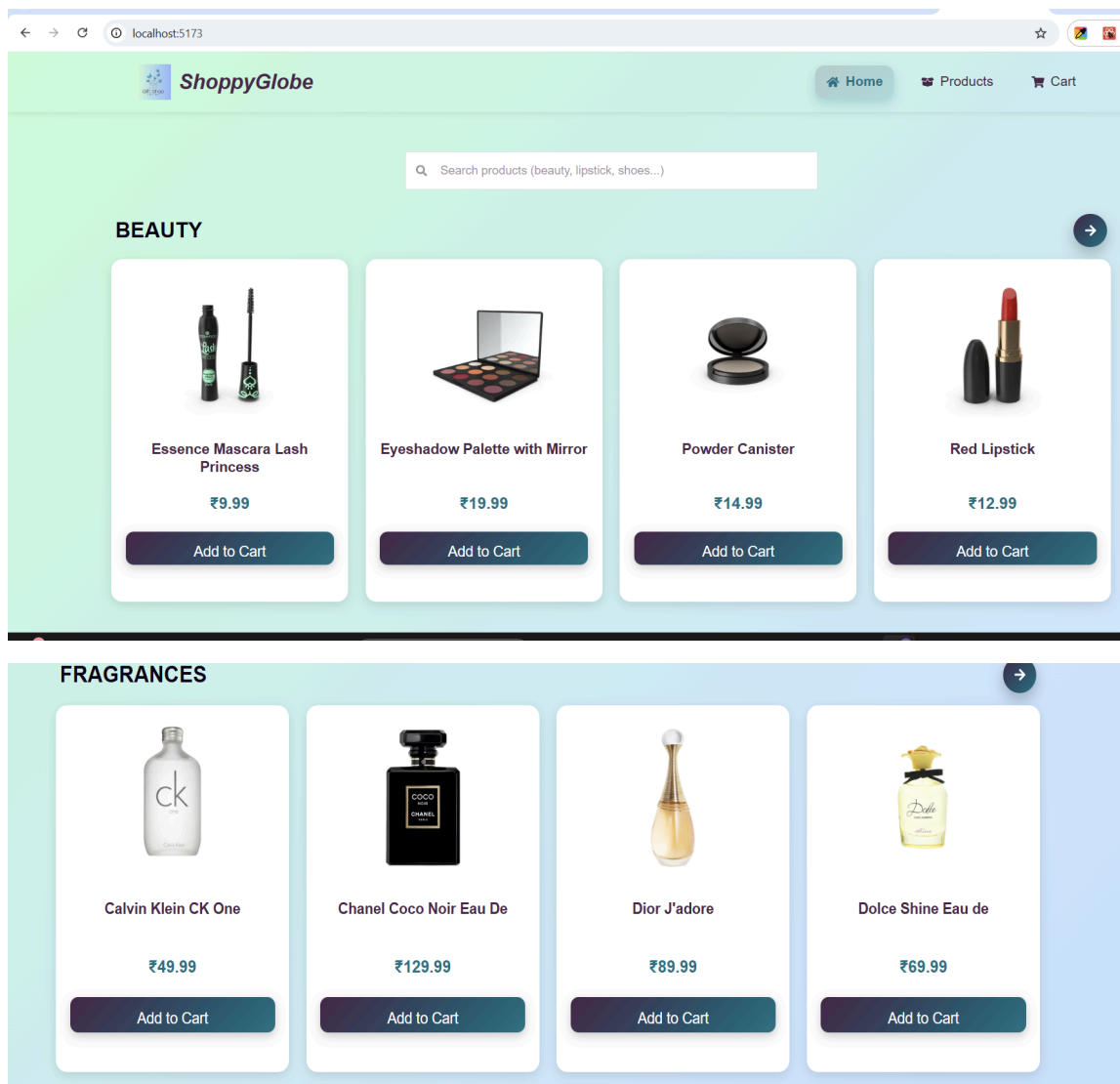
- Conditional rendering is used to handle empty cart states and no-search-result scenarios.
- Lazy loading improves performance for images and components.
- Responsive design ensures usability across mobile, tablet, and desktop devices.

#### ♦ **Checkout Flow**

- The checkout page collects user delivery details and validates required inputs.
- An order summary is displayed before final submission.
- On successful checkout, users are redirected to a confirmation (Thank You) page.

# APP USER INTERFACE :

An elegant landing page featuring a sophisticated search experience, a curated category section with four visually rich cards for effortless product discovery, and a refined footer that provides essential links and brand information.



## FURNITURE



Annibale Colombo Bed

₹1899.99

Add to Cart



Annibale Colombo Sofa

₹2499.99

Add to Cart



Bedside Table African Cherry

₹299.99

Add to Cart



Knoll Saarinen Executive  
Conference Chair

₹499.99

Add to Cart

## GROCERIES



Apple

₹1.99

Add to Cart



Beef Steak

₹12.99

Add to Cart



Cat Food

₹8.99

Add to Cart



Chicken Meat

₹9.99

Added

-

1

+

ShopyGlobby

Your one-stop shop for everything awesome.

Quick Links

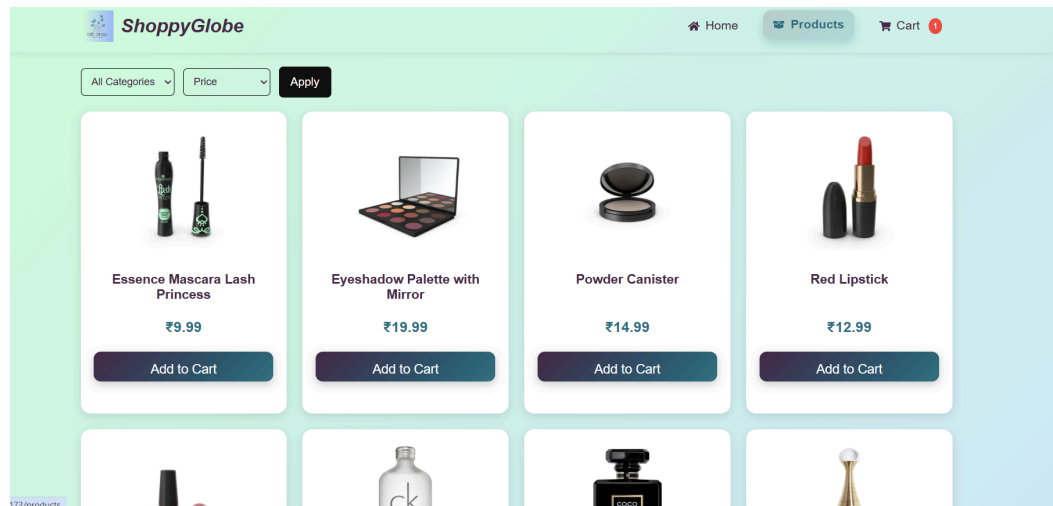
Home  
Products  
Cart

Follow Us

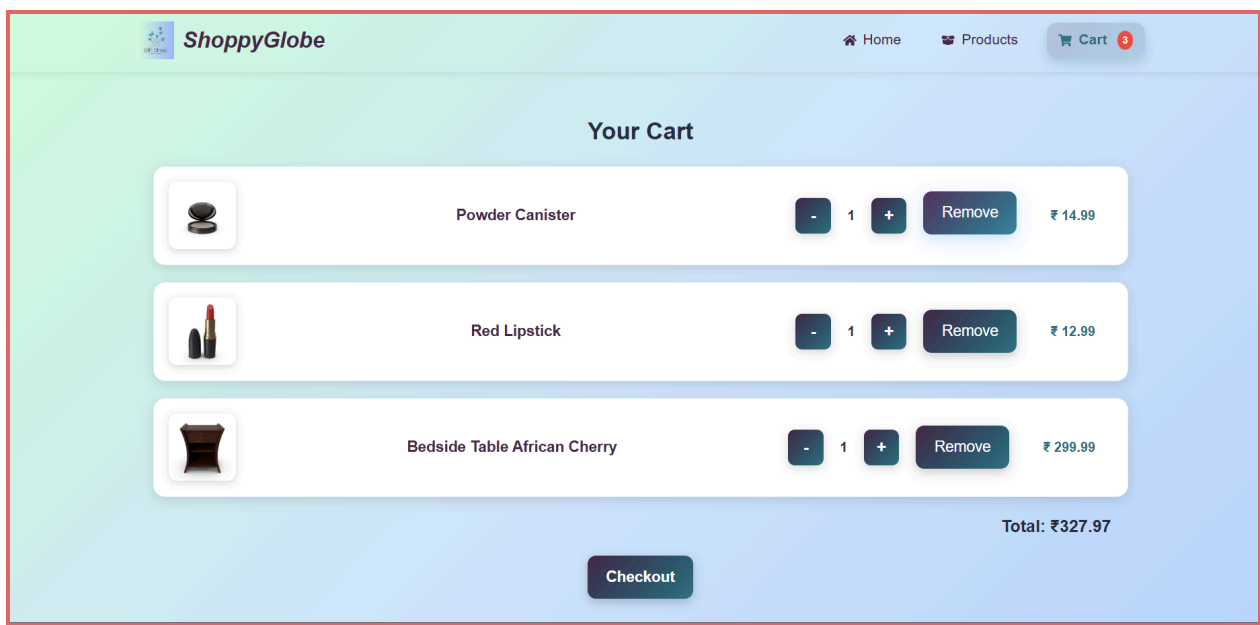


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## Products page:



## Cart Page:








## Checkout Page :

### Checkout

☐ Home Delivery ☐ Pick up from Store

☐ I agree with the [Terms & Conditions](#)

### Order Details

	<b>Chicken Meat</b> Qty: 1	₹9.99
	<b>Powder Canister</b> Qty: 4	₹59.96
	<b>Eyeshadow Palette With Mirror</b> Qty: 4	₹79.96
Essence Mascara Lash		

### Order Summary

Items	11
Subtotal	₹172.89
Shipping	₹50.00
Discount	-₹20.00
<b>Total</b>	<b>₹202.89</b>

Place Order

## Order Placed:




### Thank You, Happy Shopping!

Your order is confirmed. We'll notify you once it ships.

### Order Summary

Order ID: ORD-1765970422989

Total Amount: ₹202.89

	<b>Chicken Meat</b> Qty: 1	₹9.99
	<b>Powder Canister</b> Qty: 4	₹59.96
	<b>Eyeshadow Palette with Mirror</b> Qty: 4	₹79.96
Essence Mascara Lash		

Continue Shopping