

# **React Assignment 3:**

## **ShoppyGlobe E-commerce Application**

**Submitted By :**  
*Chaitali Mahato*

## 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.

The screenshot displays the ShoppyGlobe mobile application interface. At the top, there is a header bar with a logo, the text "ShoppyGlobe", and three navigation items: "Home", "Products", and "Cart". Below the header is a search bar with the placeholder "Search products (beauty, lipstick, shoes...)" and a magnifying glass icon. The main content area is divided into two sections: "BEAUTY" and "FRAGRANCES".

**BEAUTY**

- Essence Mascara Lash Princess  
₹9.99 [Add to Cart](#)
- Eyeshadow Palette with Mirror  
₹19.99 [Add to Cart](#)
- Powder Canister  
₹14.99 [Add to Cart](#)
- Red Lipstick  
₹12.99 [Add to Cart](#)

**FRAGRANCES**

- Calvin Klein CK One  
₹49.99 [Add to Cart](#)
- Chanel Coco Noir Eau De Parfum  
₹129.99 [Add to Cart](#)
- Dior J'adore  
₹89.99 [Add to Cart](#)
- Dolce Shine Eau de Parfum  
₹69.99 [Add to Cart](#)

## 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 +

ShoppyGlobby

Your one-stop shop for everything awesome.

Quick Links

Home

Products

Cart

Follow Us

[f](#) [g](#) [t](#)

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## Products page:

The screenshot shows a products page from the ShoppyGlobe website. At the top, there is a navigation bar with links for Home, Products, and Cart (which has 1 item). Below the navigation, there are filters for All Categories and Price, with an Apply button. The main content area displays a grid of products:

Product	Description	Price	Action
Essence Mascara Lash Princess	Mascara and brush	₹9.99	Add to Cart
Eyeshadow Palette with Mirror	Eyeshadow palette with mirror	₹19.99	Add to Cart
Powder Canister	Powder canister	₹14.99	Add to Cart
Red Lipstick	Lipstick	₹12.99	Add to Cart
(partially visible)	(partially visible)		
(partially visible)	(partially visible)		

## Cart Page:

The screenshot shows a cart page from the ShoppyGlobe website. At the top, there is a navigation bar with links for Home, Products, and Cart (which has 3 items). The main content area is titled "Your Cart" and lists the items currently in the cart:

Item	Quantity	Remove	Total
Powder Canister	1	Remove	₹ 14.99
Red Lipstick	1	Remove	₹ 12.99
Bedside Table African Cherry	1	Remove	₹ 299.99

Total: ₹327.97

[Checkout](#)

## Checkout Page :

### Checkout

Full name

Email address

Phone number

City      State      ZIP Code

Home Delivery       Pick up from Store

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

**Order Details**

	Chicken Meat Qty: 1	₹9.99
	Powder Canister Qty: 4	₹59.96
	Eyeshadow Palette With Mirror 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:

