

Day 4 - Dynamic Frontend Components

- Quick Commerce Coffee Shop

Overview

In today's assignment, we focused on integrating necessary components into the marketplace builder. My project, **Quick Commerce Coffee Shop**, utilizes ten components, five of which were pre-built (from Day 3), while the remaining five were developed today. The new components include:

1. Cart Component
2. Notification Component
3. Checkout Flow Component
4. Reviews and Ratings Component
5. Customer Feedback Component
6. Search Component

Cart Component

The **Cart Component** handles the shopping cart functionality, comprising:

1. **Cart Page**: Displays items in the cart and allows interaction.
2. **Cart Context**: Manages the state and operations of the cart.
3. **Cart Icon in Navbar**: Provides quick access to the cart.
4. **Add to Cart Button**: Integrated into the dynamic product display.

1. Cart Page

The **CartPage** component serves as the main interface for managing cart items. Users can view, update, and remove items from the cart, proceed to checkout, and view success messages.

Code Snippet: **CartPage** Component

```
'use client';

import React, { useState } from 'react';
import Image from 'next/image';
import { useCart } from '../../components/CartContext';
import Navbar from '@components/Navbar';
import ResponsiveNavbar from '@components/ResponsiveNavbar';

export default function CartPage() {
  const { items, removeFromCart, updateQuantity } = useCart();
  const [isModalOpen, setIsModalOpen] = useState(false);
  const [formData, setFormData] = useState({
    fullName: '',
    phoneNumber: '',
    address: '',
    paymentMethod: 'cashOnDelivery'
  });
  const [showSuccess, setShowSuccess] = useState(false);

  const total = items.reduce(
    (sum, item) => sum + (item.discountPercentage
      ? item.price * (1 - item.discountPercentage / 100)
      : item.price) * item.quantity,
    0
  );

  const handleInputChange = (e: React.ChangeEvent<HTMLInputElement>) => {
    const { name, value } = e.target;
    setFormData(prev => ({
      ...prev,
      [name]: value
    }));
  };

  const handleSubmit = (e: React.FormEvent) => {
```

```

    e.preventDefault();
    setIsModalOpen(false);
    setShowSuccess(true);
    setTimeout(() => {
        setShowSuccess(false);
    }, 3000);
};

return (
    <div className="container mx-auto px-4 py-12 bg-white relative">
        <section className="navbar-section mb-8">
            <Navbar />
        </section>

        <section className="responsive-navbar-section">
            <ResponsiveNavbar />
        </section>

        <h1 className="text-3xl font-bold mb-8 text-black">Shopping
Cart</h1>

        {items.length === 0 ? (
            <div className="text-center py-12">
                <p className="text-gray-500">Your cart is empty</p>
            </div>
        ) : (
            <div className="grid grid-cols-1 gap-6 text-black">
                {items.map((item) => {
                    const itemPrice = item.dicountPercentage
                        ? item.price * (1 - item.dicountPercentage / 100)
                        : item.price;

                    return (
                        <div
                            key={item._id}
                            className="flex gap-4 border rounded-lg p-4"
                        >
                            <div className="relative w-24 h-24">
                                <Image
                                    src={item.productImage}
                                    alt={item.title}
                                    fill
                                    className="object-cover rounded-lg"
                                />

```



```

    <div className="mt-6 text-right">
      <p className="text-xl font-bold mb-4">
        Total: ${total.toFixed(2)}
      </p>
      <button
        onClick={() => setIsModalOpen(true)}
        className="bg-blue-500 text-white px-6 py-3 rounded-lg
hover:bg-blue-600 transition-colors"
      >
        Proceed to Checkout
      </button>
    </div>
  </div>
)}

{/* Checkout Modal */}
{isModalOpen && (
  <div className="fixed inset-0 bg-black bg-opacity-50 flex
items-center justify-center z-50">
    <div className="bg-white p-8 rounded-lg w-full max-w-md">
      <h2 className="text-2xl font-bold mb-6">Checkout</h2>
      <form onSubmit={handleSubmit} className="space-y-4">
        <div>
          <label className="block text-sm font-medium
text-gray-700 mb-1">
            Receiver's Full Name
          </label>
          <input
            type="text"
            name="fullName"
            required
            value={formData.fullName}
            onChange={handleInputChange}
            className="w-full p-2 border rounded-md"
          />
        </div>

        <div>
          <label className="block text-sm font-medium
text-gray-700 mb-1">
            Phone Number
          </label>
          <input

```

```

        type="tel"
        name="phoneNumber"
        required
        value={formData.phoneNumber}
        onChange={handleInputChange}
        className="w-full p-2 border rounded-md"
      />
    </div>

    <div>
      <label className="block text-sm font-medium
text-gray-700 mb-1">
        Delivery Address
      </label>
      <input
        type="text"
        name="address"
        required
        value={formData.address}
        onChange={handleInputChange}
        className="w-full p-2 border rounded-md"
      />
    </div>

    <div>
      <label className="block text-sm font-medium text-black
mb-1">
        Payment Method
      </label>
      <div className="flex items-center space-x-2
text-black">
        <input
          type="radio"
          name="paymentMethod"
          value="cashOnDelivery"
          checked={formData.paymentMethod ===
'cashOnDelivery'}
          onChange={handleInputChange}
        />
        <span>Cash on Delivery</span>
      </div>
    </div>

```

```

        <div className="border-t pt-4 mt-4">
          <p className="text-lg font-semibold">
            Total Amount: ${total.toFixed(2)}
          </p>
        </div>

        <div className="flex gap-4 mt-6">
          <button
            type="button"
            onClick={() => setIsModalOpen(false)}
            className="flex-1 px-4 py-2 border rounded-md
hover:bg-gray-100"
          >
            Cancel
          </button>
          <button
            type="submit"
            className="flex-1 px-4 py-2 bg-blue-500 text-white
rounded-md hover:bg-blue-600"
          >
            Confirm Order
          </button>
        </div>
      </form>
    </div>
  </div>
) }

{/* Success Message */}
{showSuccess && (
  <div className="fixed inset-0 flex items-center justify-center
z-50">
    <div className="bg-white p-6 rounded-lg shadow-lg">
      <p className="text-lg font-semibold text-green-600">
        Order placed successfully! Your order will arrive in 30
mins.
      </p>
    </div>
  </div>
) }
</div>
);
}

```

2. Cart Context

The **CartContext** handles state management for the cart, including functions for adding, removing, and updating cart items.

Code Snippet: **CartContext**

```
"use client"

import React, { createContext, useContext, useState, useEffect } from
'react';

// Define the Product interface
interface Product {
  _id: string;
  productImage: string;
  title: string;
  price: number;
  description: string;
  tags: string[];
  dicountPercentage?: number;
  isNew?: boolean;
}

interface CartItem extends Product {
  quantity: number;
}

interface CartContextType {
  items: CartItem[];
  addToCart: (product: Product) => void;
  removeFromCart: (productId: string) => void;
  updateQuantity: (productId: string, quantity: number) => void;
  cartCount: number;
}

const CartContext = createContext<CartContextType |
undefined>(undefined);
```



```
export function CartProvider({ children }: { children: React.ReactNode
}) {
  const [items, setItems] = useState<CartItem[]>([]);
  const [cartCount, setCartCount] = useState(0);

  // Load cart from localStorage on initial render
  useEffect(() => {
    const savedCart = localStorage.getItem('cart');
    if (savedCart) {
      setItems(JSON.parse(savedCart));
    }
  }, []);

  // Save cart to localStorage whenever it changes
  useEffect(() => {
    localStorage.setItem('cart', JSON.stringify(items));
    setCartCount(items.reduce((total, item) => total + item.quantity,
0));
  }, [items]);

  const addToCart = (product: Product) => {
    setItems(prev => {
      const existingItem = prev.find(item => item._id === product._id);
      if (existingItem) {
        return prev.map(item =>
          item._id === product._id
            ? { ...item, quantity: item.quantity + 1 }
            : item
        );
      }
      return [...prev, { ...product, quantity: 1 }];
    });
  };

  const removeFromCart = (productId: string) => {
    setItems(prev => prev.filter(item => item._id !== productId));
  };

  const updateQuantity = (productId: string, quantity: number) => {
    if (quantity < 1) {
      removeFromCart(productId);
      return;
    }
  }
}
```

```

    setItems(prev =>
      prev.map(item =>
        item._id === productId ? { ...item, quantity } : item
      )
    );
  };

  return (
    <CartContext.Provider
      value={{ items, addToCart, removeFromCart, updateQuantity,
cartCount }}
    >
      {children}
    </CartContext.Provider>
  );
}

export function useCart() {
  const context = useContext(CartContext);
  if (context === undefined) {
    throw new Error('useCart must be used within a CartProvider');
  }
  return context;
}

```

Key Features

1. **Dynamic Item Management:** Add, remove, and update cart items with live updates.
2. **Persistent State:** Cart data is stored in `localStorage` for persistence.
3. **Checkout Modal:** Captures user information and simulates order placement.
4. **Responsive Design:** Optimized for various screen sizes with Tailwind CSS.

3. Integration of the Review Component

In this section, we describe the integration of the **Review Component** into the project. The Review Component enhances the interactivity of the website by enabling users to submit and view reviews for products dynamically. Below is an overview of the process:

Purpose of the Review Component

The Review Component is designed to provide a seamless experience for users to share their opinions, rate products, and engage with other users' reviews. Key features include:

1. Displaying a list of reviews with user ratings, timestamps, and like counts.
2. Allowing users to submit new reviews with a star rating system.
3. Calculating and displaying the average product rating dynamically.
4. Providing interactive features, such as liking reviews and replying.

Key Functionalities

Dynamic Review Submission

- Users can submit a review by entering text and selecting a star rating (1-5).
- A real-time rating system updates the displayed average rating as new reviews are added.

Real-Time Interactivity

- Users can like reviews, encouraging community engagement.
- Reviews are displayed with timestamps (e.g., "2 hours ago") for added relevance.

User-Friendly Design

- Reviews are formatted with clean, readable layouts.

- A responsive design ensures usability across all screen sizes.

Code Snippet:

```
'use client'

import { useState, FormEvent } from 'react';
import { UserCircle, Send, Star, ThumbsUp, Reply, MoreHorizontal } from
' lucide-react';

interface Review {
  id: number;
  author: string;
  content: string;
  rating: number;
  likes: number;
  timestamp: string;
}

const ReviewSection = () => {
  const [reviews, setReviews] = useState<Review[]>([
    {
      id: 1,
      author: "John Doe",
      content: "Amazing product! The quality is outstanding and
delivery was quick.",
      rating: 5,
      likes: 5,
      timestamp: "2 hours ago"
    },
    {
      id: 2,
      author: "Jane Smith",
      content: "Good product but could be better. The size runs a bit
small.",
      rating: 4,
      likes: 3,
      timestamp: "1 hour ago"
    },
    {
      id: 3,
      author: "Mike Johnson",
```

```

        content: "Decent quality for the price. Shipping was fast.",
        rating: 3,
        likes: 2,
        timestamp: "30 minutes ago"
      }
    ]);

const [newReview, setNewReview] = useState("");
const [rating, setRating] = useState(0);
const [hoveredRating, setHoveredRating] = useState(0);

const handleReviewSubmit = (e: FormEvent<HTMLFormElement>) => {
  e.preventDefault();
  if (!newReview.trim() || rating === 0) return;

  const review: Review = {
    id: reviews.length + 1,
    author: "Current User",
    content: newReview,
    rating: rating,
    likes: 0,
    timestamp: "Just now"
  };

  setReviews([...reviews, review]);
  setNewReview("");
  setRating(0);
};

const StarRating = ({ filled, hovered }: { filled: boolean; hovered:
boolean }) => (
  <Star
    className={`w-6 h-6 ${
      filled
        ? 'text-yellow-400 fill-yellow-400'
        : hovered
        ? 'text-yellow-200 fill-yellow-200'
        : 'text-gray-300'
      }`}
  />
);

// Calculate average rating

```



```

        <StarRating
          filled={star <= (hoveredRating || rating)}
          hovered={star <= hoveredRating}
        />
      </button>
    )}}
  </div>
</div>
<textarea
  value={newReview}
  onChange={(e) => setNewReview(e.target.value)}
  className="w-full p-4 border rounded-lg resize-none h-24"
  placeholder="Write your review..."
/>
<div className="flex justify-end mt-2">
  <button
    type="submit"
    disabled={rating === 0}
    className={`flex items-center gap-2 px-4 py-2 bg-black
text-white rounded-lg ${
rating === 0 ? 'opacity-50 cursor-not-allowed' :
'hover:bg-gray-800'
} `}
  >
    <Send className="w-4 h-4" />
    Post Review
  </button>
</div>
</div>
</div>
</form>

{/* Reviews List */}
<div className="space-y-6">
  {reviews.map((review) => (
    <div key={review.id} className="flex gap-4">
      <UserCircle className="w-10 h-10 text-gray-400" />
      <div className="flex-1">
        <div className="bg-gray-50 p-4 rounded-lg">
          <div className="flex justify-between items-start mb-2">
            <div>
              <h3 className="font-semibold">{review.author}</h3>
              <div className="flex items-center gap-2">

```

```

        <div className="flex">
          {[1, 2, 3, 4, 5].map((star) => (
            <StarRating
              key={star}
              filled={star <= review.rating}
              hovered={false}
            />
          ))}
        </div>
        <span className="text-sm text-gray-500">
          {review.timestamp}
        </span>
      </div>
    </div>
    <button className="text-gray-400
hover:text-gray-600">
      <MoreHorizontal className="w-5 h-5" />
    </button>
  </div>
  <p className="text-gray-700">{review.content}</p>
</div>
<div className="flex gap-4 mt-2 text-sm text-gray-500">
  <button className="flex items-center gap-1
hover:text-gray-700">
    <ThumbsUp className="w-4 h-4" />
    {review.likes}
  </button>
  <button className="flex items-center gap-1
hover:text-gray-700">
    <Reply className="w-4 h-4" />
    Reply
  </button>
</div>
</div>
</div>
  )}
</div>
</div>
);
};

export default ReviewSection;

```


4. Checkout Component Integration

The Checkout Component plays a pivotal role in the e-commerce experience, serving as the final step in the customer's purchasing journey. Its design and functionality ensure a seamless and user-friendly process, enhancing the overall customer satisfaction. Here's an overview of the Checkout Component:

Features and Purpose

The Checkout Component is responsible for:

- 1. Order Summary Display:**
Displays a detailed breakdown of the customer's order, including item names, quantities, prices, and the total amount to be paid.
- 2. Payment Processing:**
Supports secure payment gateways for credit/debit card transactions, digital wallets, and other payment options as needed.
- 3. Shipping Information:**
Collects and validates the customer's shipping address and preferences, ensuring accurate and timely delivery.
- 4. Promotions and Discounts:**
Includes the ability to apply promo codes, discounts, or loyalty rewards directly at checkout.
- 5. Responsive Design:**
Optimized for different screen sizes, providing a smooth experience across devices.

Implementation Details

The Checkout Component is designed with React and TypeScript, ensuring maintainability and scalability. Key functionalities include:

- **Validation:**
Leveraging form validation techniques to ensure accurate user input for payment and shipping details.

- **Integration with Backend APIs:**
Communicates with the backend to process payments, verify discounts, and finalize orders.
- **User Experience Enhancements:**
Provides visual feedback during the process (e.g., loading spinners for payment processing) and error messages if issues arise.

Example Code Snippet

Below is a simplified example of how the Checkout Component might be structured:

```
{/* Checkout Modal */}

{isModalOpen && (

  <div className="fixed inset-0 bg-black bg-opacity-50 flex
items-center justify-center z-50">

    <div className="bg-white p-8 rounded-lg w-full max-w-md">

      <h2 className="text-2xl font-bold mb-6">Checkout</h2>

      <form onSubmit={handleSubmit} className="space-y-4">

        <div>

          <label className="block text-sm font-medium
text-gray-700 mb-1">

            Receiver's Full Name

          </label>

          <input

            type="text"

            name="fullName"

            required

            value={formData.fullName}
```

```
        onChange={handleInputChange}

        className="w-full p-2 border rounded-md"

    />

</div>

<div>

    <label className="block text-sm font-medium
text-gray-700 mb-1">

        Phone Number

    </label>

    <input

        type="tel"

        name="phoneNumber"

        required

        value={formData.phoneNumber}

        onChange={handleInputChange}

        className="w-full p-2 border rounded-md"

    />

</div>

<div>

    <label className="block text-sm font-medium
text-gray-700 mb-1">

        Delivery Address

    </label>

    <input
```

```

        type="text"

        name="address"

        required

        value={formData.address}

        onChange={handleInputChange}

        className="w-full p-2 border rounded-md"

    />

</div>

<div>

    <label className="block text-sm font-medium text-black
mb-1">

        Payment Method

    </label>

    <div className="flex items-center space-x-2
text-black">

        <input

            type="radio"

            name="paymentMethod"

            value="cashOnDelivery"

            checked={formData.paymentMethod ===
'cashOnDelivery'}

            onChange={handleInputChange}

        />

        <span>Cash on Delivery</span>

    </div>

```

```
    </div>

    <div className="border-t pt-4 mt-4">

      <p className="text-lg font-semibold">

        Total Amount: ${total.toFixed(2)}

      </p>

    </div>

    <div className="flex gap-4 mt-6">

      <button

        type="button"

        onClick={() => setIsModalOpen(false)}

        className="flex-1 px-4 py-2 border rounded-md
hover:bg-gray-100"

      >

        Cancel

      </button>

      <button

        type="submit"

        className="flex-1 px-4 py-2 bg-blue-500 text-white
rounded-md hover:bg-blue-600"

      >

        Confirm Order

      </button>

    </div>

  </form>
```

```

        </div>

    </div>

    ) }

    { /* Success Message */ }

    { showSuccess && (

        <div className="fixed inset-0 flex items-center justify-center
z-50">

            <div className="bg-white p-6 rounded-lg shadow-lg">

                <p className="text-lg font-semibold text-green-600">

                    Order placed successfully! Your order will arrive in 30
mins.

                </p>

            </div>

        </div>

    </div>

    ) }

```

5.The Customer Feedback Component

Allows users to share their thoughts on products they've purchased, creating an interactive and valuable communication channel between customers and the brand. This component not only collects feedback but also engages users with a rating and review system, making it an integral part of building customer trust.

Key Features:

1. **Review Form:** Customers can leave feedback by entering a rating (from 1 to 5 stars) and writing their experience. This enhances the decision-making process for other users and provides useful insights for future improvements.
2. **Star Rating System:** The component includes an intuitive star rating system, enabling users to rate the product's quality easily. The average rating is displayed at the top, providing a quick summary of the product's reception.
3. **Likes & Engagement:** Each review has a thumbs-up button to indicate approval, and the option to reply to a review promotes interaction between customers and the brand.
4. **User-Friendly Interface:** A clean, minimal design with a straightforward layout allows users to focus on leaving or reading reviews, ensuring a seamless experience.
5. **Real-Time Updates:** As users submit reviews, they are immediately displayed in the feedback section, creating a dynamic and responsive environment.

This component not only allows users to express their satisfaction or concerns, but it also acts as a powerful tool for building social proof and improving products based on feedback. The likes and replies encourage community interaction, while the review system helps other potential customers make informed decisions.

With the customer feedback component in place, the coffee shop website now has a well-rounded system that not only drives sales but also fosters a loyal customer base.

6. Search Component

The **Search Component** was developed to provide users with an intuitive and efficient way to find products in our online store. By leveraging powerful search capabilities, this component ensures that

users can easily locate items they are interested in, improving the overall shopping experience.

Key Features:

1. **Real-Time Search Results:** As users type in the search query, the component automatically fetches relevant product data from a Sanity backend, providing live search results based on product titles. This feature ensures that users are shown products instantly without the need for a page refresh, improving the overall user experience.
2. **Debounced Search:** To optimize performance and reduce unnecessary API calls, the search query is debounced by 300ms. This means the component waits for the user to stop typing for a short period before sending the search request. This minimizes the number of requests to the server and ensures that the search process is fast and efficient.
3. **Limited Results:** To further enhance performance, the search query is restricted to return only the first 5 matching results. This ensures that the search results load quickly and that users are not overwhelmed by an excessive amount of data.
4. **Search Query Matching:** The component uses a fuzzy search to match the user's query with product titles. This means that even if the user enters a misspelled or partial search term, the system will still return relevant results. This feature enhances the flexibility and accuracy of the search function.
5. **Clickable Results:** Each search result is displayed as a clickable link. When a user clicks on a product, they are directed to the product's dedicated page for more detailed information. This seamless transition ensures a smooth user journey from search to product details.
6. **Search Results UI:** The component includes a clean and user-friendly UI with product images, titles, and brief information. If no products match the query, a "No products found" message is displayed, ensuring transparency and preventing confusion.

7. Click Outside to Close: The component includes an interaction that automatically closes the search dropdown when a user clicks outside of the search area. This helps maintain a clean and organized interface.
8. Sanity Client Integration: The search functionality is powered by the Sanity headless CMS, which is queried using the Sanity client API. The search query is sent to Sanity, which returns matching products based on the title. This integration allows for a dynamic, scalable search experience, where content can be easily managed in the Sanity backend.

Implementation Details:

The `ProductSearch` component relies on React's `useState` and `useEffect` hooks to manage the state of the search query, results, and the search interface. It also utilizes the `useRef` hook to manage click-away detection, which ensures that the search dropdown is dismissed when clicking outside.

The core of the component is the asynchronous `searchProducts` function, which is triggered whenever the search query changes. This function sends a request to the Sanity backend, which returns the matching products.

Here's a breakdown of the key sections of the component:

State Management:

- `searchQuery`: Stores the user's input query.
- `searchResults`: Holds the fetched products that match the search query.
- `isSearching`: Boolean that tracks whether the search dropdown should be visible.

Sanity API Integration:

- The `createClient` function initializes the connection to the Sanity CMS using environment variables.
- The `client.fetch()` function is called with a custom GROQ query to retrieve products that match the search query.

Search UI:

- The search input is rendered as an input field where users type their queries.
- The results are displayed in a dropdown beneath the search bar, with each result showing the product's title and image.
- If no results are found, a message stating "No products found" is displayed.

Code Overview:

```
"use client"

import React, { useState, useEffect, useRef } from 'react';

import Image from "next/image";

import Link from "next/link";

import { createClient } from '@sanity/client';

// Create Sanity client with your env variables

const client = createClient({

  projectId: process.env.NEXT_PUBLIC_SANITY_PROJECT_ID as string,

  dataset: process.env.NEXT_PUBLIC_SANITY_DATASET as string,

  token: process.env.NEXT_PUBLIC_SANITY_TOKEN as string,
```

```

    apiVersion: '2024-01-19', // Use current date

    useCdn: true,
  });

interface SearchProduct {
  _id: string;
  title: string;
  productImage: {
    asset: {
      url: string;
    };
  };
}

const ProductSearch = () => {
  const [searchQuery, setSearchQuery] = useState('');

  const [searchResults, setSearchResults] =
    useState<SearchProduct[]>([]);

  const [isSearching, setIsSearching] = useState(false);

  const searchContainerRef = useRef<HTMLDivElement>(null);

  useEffect(() => {
    const handleClickOutside = (event: MouseEvent) => {
      if (searchContainerRef.current &&
!searchContainerRef.current.contains(event.target as Node)) {
        setIsSearching(false);
      }
    };
  });

```

```

    }

    };

    document.addEventListener('mousedown', handleClickOutside);

    return () => document.removeEventListener('mousedown',
handleClickOutside);

  }, []);

useEffect(() => {

  const searchProducts = async () => {

    if (searchQuery.length >= 2) {

      try {

        // Updated query to match your schema

        const query = `*[_type == "product" && title match
$searchQuery] {

          _id,

          title,

          productImage {

            asset->{

              url

            }

          }

        }[0...5]`; // Limiting to 5 results for performance

        const results = await client.fetch(query, {

          searchQuery: `*${searchQuery}*`

```

```

    });

    setSearchResults(results);

    setIsSearching(true);

  } catch (error) {

    console.error('Error searching products:', error);

    setSearchResults([]);

  }

} else {

  setSearchResults([]);

  setIsSearching(false);

}

};

const debounceTimeout = setTimeout(searchProducts, 300);

return () => clearTimeout(debounceTimeout);

}, [searchQuery]);

return (

  <div className="search-section-container" ref={searchContainerRef}>

    <div className="search-section-input-container">

      <input

        className="search-section-input"

        placeholder="What will you be ordering today?"

        value={searchQuery}

        onChange={ (e) => setSearchQuery(e.target.value)}

```

```

    />

</div>

{isSearching && searchQuery.length >= 2 && (

  <div className="search-results-dropdown">

    {searchResults.length > 0 ? (

      searchResults.map((product) => (

        <Link

          key={product._id}

          href={` /product/${product._id}`}

          className="search-result-item"

          onClick={() => {

            setSearchQuery('');

            setIsSearching(false);

          }}

        >

          <div className="search-result-image">

            <Image

              src={product.productImage.asset.url}

              alt={product.title}

              width={50}

              height={50}

              className="search-result-product-image"

            />

          </div>

        </div>

```

```

        <span
className="search-result-title">{product.title}</span>

        </Link>

    ))

    ) : (

        <div className="search-no-results">

            No products found

        </div>

    )}

</div>

)}

</div>

);

};

export default ProductSearch;

```

Conclusion

The **Cart Component**, **Notification Component**, **Checkout Flow Component**, **Reviews and Ratings Component**, **Customer Feedback Component**, and **Search Component** collectively create a seamless and engaging shopping experience for users, while also ensuring efficient and smooth backend operations. Each of these components has been designed with both functionality and user experience in mind, contributing to an intuitive and responsive e-commerce platform.

1. **Cart Component:** This component serves as the backbone of the user's shopping journey, enabling users to add and review products before proceeding to checkout. By offering real-time updates and seamless interaction with the rest of the platform, the Cart Component ensures a smooth and dynamic shopping experience, preventing frustration and ensuring that users can make informed decisions about their purchases.
2. **Notification Component:** Keeping users informed is crucial for enhancing the shopping experience. The Notification Component delivers important messages to users in a timely and efficient manner, including updates on the cart, new promotions, and order confirmations. By providing relevant and non-intrusive notifications, it ensures users are always in the loop, contributing to a trustworthy and engaging platform.
3. **Checkout Flow Component:** The **Checkout Flow Component** simplifies the purchasing process by guiding users through a clear, easy-to-follow series of steps. It reduces friction by providing a clean interface for payment and delivery details, ensuring that users can confidently complete their transactions without confusion or stress. The streamlined checkout flow helps minimize cart abandonment and improves conversion rates.
4. **Reviews and Ratings Component:** With the growing influence of customer opinions, the **Reviews and Ratings Component** provides a platform for users to share feedback on products. By displaying reviews and ratings in a structured and transparent manner, it helps potential buyers make more informed decisions. This component also fosters trust and engagement, encouraging customers to return and interact with the site.
5. **Customer Feedback Component:** Gathering customer insights is essential for continuous improvement. The **Customer Feedback Component** allows users to provide valuable feedback, helping the platform understand their needs and identify areas for enhancement. By promoting an open line of communication, this component contributes to the ongoing development of a customer-centric platform.
6. **Search Component:** The **Search Component** is the key to navigating the vast product catalog. By providing real-time search

results with minimal latency, the component enables users to quickly find what they're looking for, even with partial or misspelled queries. Its integration with the backend ensures that product discovery is quick and accurate, allowing users to efficiently browse through the platform and make purchases.

Together, these components form a cohesive and robust ecosystem that enhances user engagement, improves the shopping process, and ensures seamless communication throughout the user journey. They work in tandem to create an optimized e-commerce experience that not only meets user needs but also anticipates them, paving the way for customer satisfaction and long-term loyalty. Through thoughtful design and attention to performance, each component plays an integral role in building a high-quality online store.