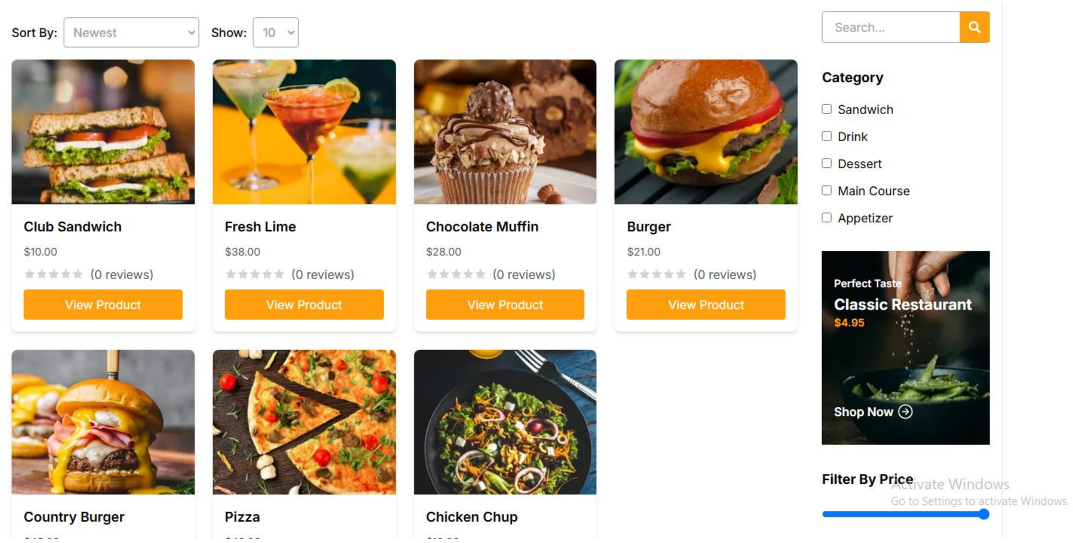
Day 4 - Dynamic Frontend Components – Marketplace Project

Screenshots of Implemented Components

Product Listing Component



Sort By: Newest

Show: 10

Club Sandwich
$10.00
☆☆☆☆☆ (0 reviews)

Fresh Lime
$38.00
☆☆☆☆☆ (0 reviews)

Chocolate Muffin
$28.00
☆☆☆☆☆ (0 reviews)

Burger
$21.00
☆☆☆☆☆ (0 reviews)

Country Burger

Pizza

Chicken Chup

Category

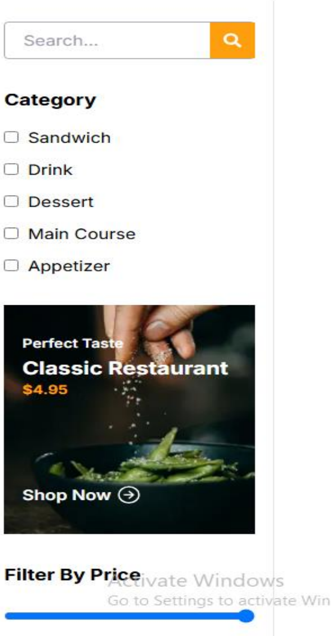
□ Sandwich
□ Drink
□ Dessert
□ Main Course
□ Appetizer

Filter By Price

- Dynamically displays products in a grid layout.

- Shows product name, price, image, and stock status.

Sidebar Component



Search...

Category

☐ Sandwich

☐ Drink

☐ Dessert

☐ Main Course

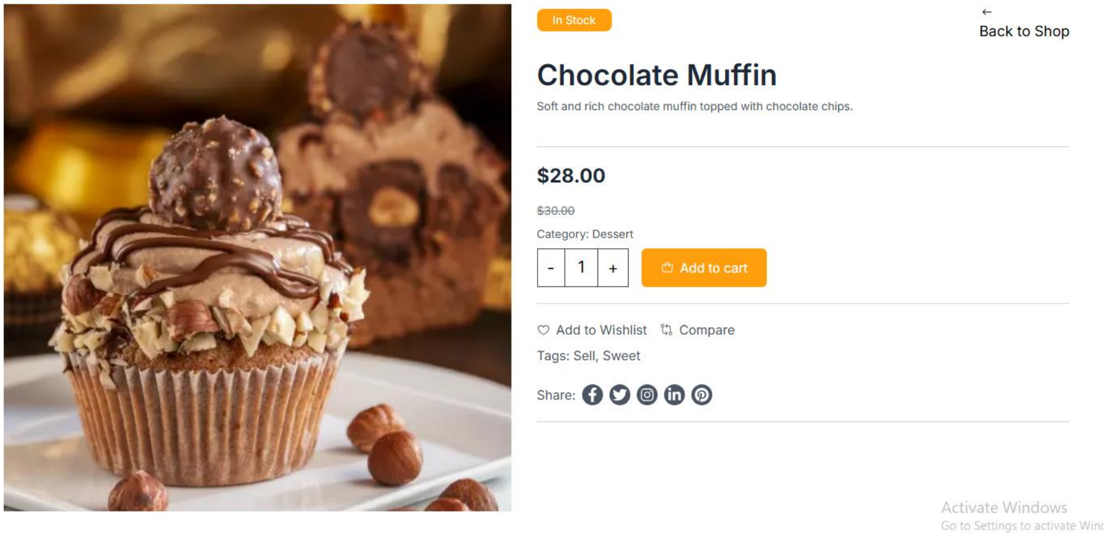
☐ Appetizer

Filter By Price

- Fetches and displays unique categories dynamically from the data source.

- Enables users to filter products by categories.

Product Detail Component



In Stock

← Back to Shop

Chocolate Muffin

Soft and rich chocolate muffin topped with chocolate chips.

$28.00

~~$30.00~~

Category: Dessert

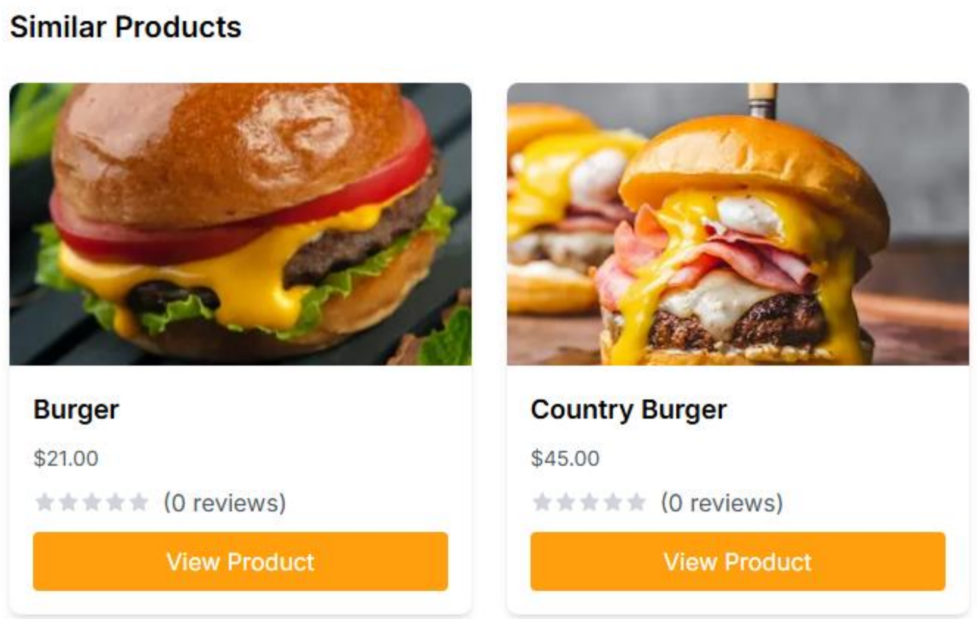
Tags: Sell, Sweet

Share:

- Created with dynamic routing to render product-specific details.

- Displays product name, description, price, available sizes/colors, and images.

Similar Products Component



Similar Products

Burger

$21.00

☆☆☆☆☆ (0 reviews)

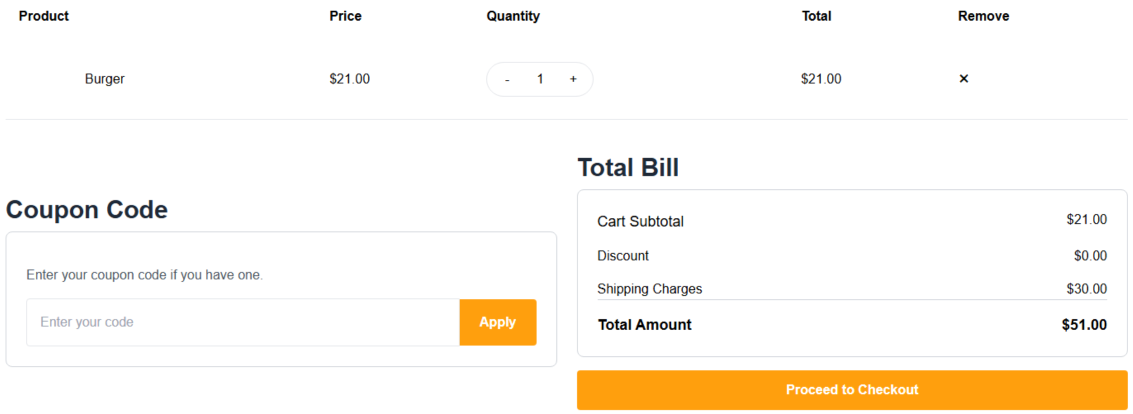
Country Burger

$45.00

☆☆☆☆☆ (0 reviews)

- Suggests related products based on tags fetched via the API.

Shopping Cart Page



Product	Price	Quantity	Total	Remove
Burger	$21.00	- 1 +	$21.00	×

Coupon Code

Enter your coupon code if you have one.

Enter your code

Total Bill

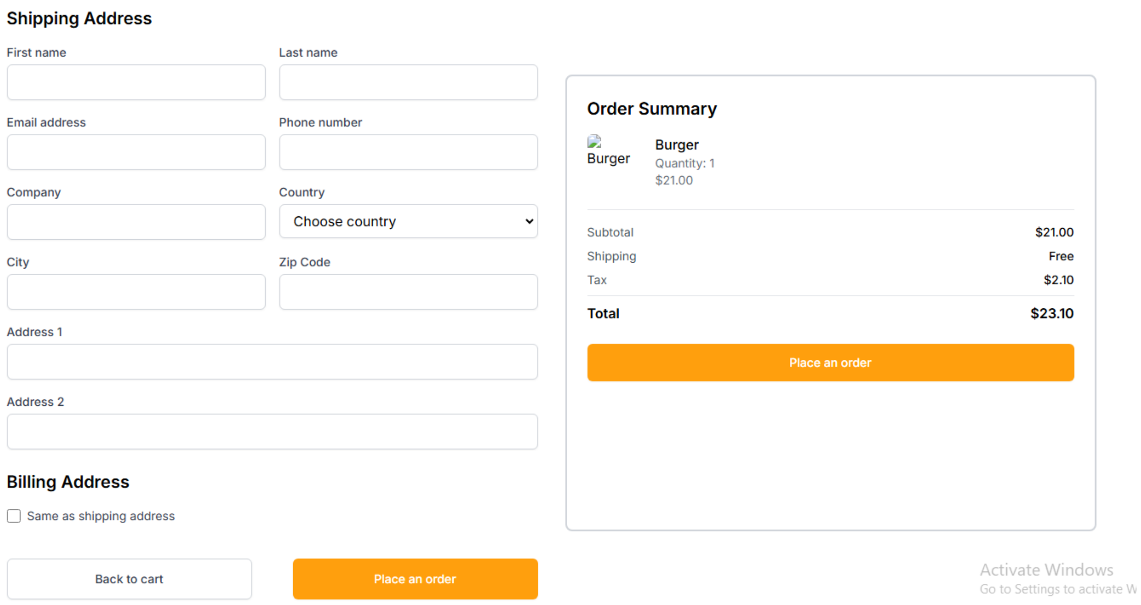
Cart Subtotal	$21.00
Discount	$0.00
Shipping Charges	$30.00
Total Amount	**$51.00**

- Displays the items added to the cart with their details such as name, quantity, and price.

- Allows users to update the quantity or remove items from the cart.

- Shows the total price dynamically as items are added, removed, or updated.

Checkout Page



Shipping Address

Billing Address

☐ Same as shipping address

Order Summary

Burger
Quantity: 1
$21.00

Subtotal	$21.00
Shipping	Free
Tax	$2.10
Total	**$23.10**

- Features a form that collects billing and shipping details from the user.

- Includes form validation to ensure all required fields are correctly filled.

- On clicking the "Place Order" button, displays a dialog box with a thank-you message to confirm the order submission.

Implemented Functionalities

Category Filter Functionality

- The `SearchableProductList` component manages the search bar.

- Filters products in real-time based on the `searchQuery` state.

Dynamic Routing for Product Details

- Dynamically fetches and renders product details from Sanity CMS or API endpoints.

- Routes like `/productdetail/:id` are created using a `[id].tsx` file.

Product Listing Component

- Fetches product data from the backend using Sanity CMS.

- Displays each product as a card with the following details:

  - Name

  - Description

  - Price

  - Stock status

API Integration

- Configured a Sanity CMS client for efficient data fetching.

- Applied proper fetching logic to populate components with real-time data.

Challenges and Solutions

Challenge: Implementing real-time updates for filtering and search.

- Solution: Utilized React state (`useState`) and event handlers for dynamic filtering.

Challenge: Dynamic routing for individual product pages.

- Solution: Created a dynamic `[id].tsx` file in the `/shop` directory.

Best Practices Followed

- Modular and reusable component design (e.g., `ProductList`, `ThankYouDialog `).

- State management with React's `useState` and `useContext` for global data sharing.

- Applied responsive design principles using Tailwind CSS for a professional and user-friendly interface.