

Day-04: Building and Integrating Components for an E-Commerce Website

Overview:

This report outlines the Day 4 about building and integrating components for an e-commerce websites

First here comes the ,

Product Details:

The `Product detail` component is designed to display detailed information about a specific product. It retrieves product data from a Sanity CMS and displays attributes like:

- Name
- Price
- Description
- Image
- Inventory status
- Available colors
- Category
- Other relevant product details.

The component also handles adding the product to the user's shopping cart, which is stored in the browser's `localStorage`.

Component Overview

The component uses the following libraries:

1. **React:** Handles state and side effects.
2. **Next.js:** Provides server-side rendering, routing, and dynamic parameters (`slug`).
3. **Sanity Client:** Fetches product data from the Sanity CMS backend.
4. **Tailwind CSS:** For styling.

Nike Air Force 1 Mid '07



Description

The Nike Air Force 1 Mid '07 delivers timeless style with premium leather and mid-cut design. Perfect for everyday wear, it provides exceptional comfort and durability. The iconic Air-Sole cushioning adds responsive support for long-lasting performance.

\$10795

Inventory: 20

Status: Just In

Colors: White

Category: Men's Shoes

Add to Cart

Expected Results

1. Loading State:

- If the `slug` is being resolved or product data is being fetched, a loading message will be shown.

2. Error State:

- If an error occurs during the fetch (e.g., product not found or network issues), the error message is displayed, and the user can retry by clicking the "Retry" button.

3. Product Display:

- Once the product is successfully fetched, its details are displayed, including its name, description, price, inventory, status, available colors, and category.
4. **Add to Cart:**
- When the user clicks the "Add to Cart" button, the product is added to the shopping cart stored in the `localStorage`. If the product is already in the cart, its quantity will be increased by 1.

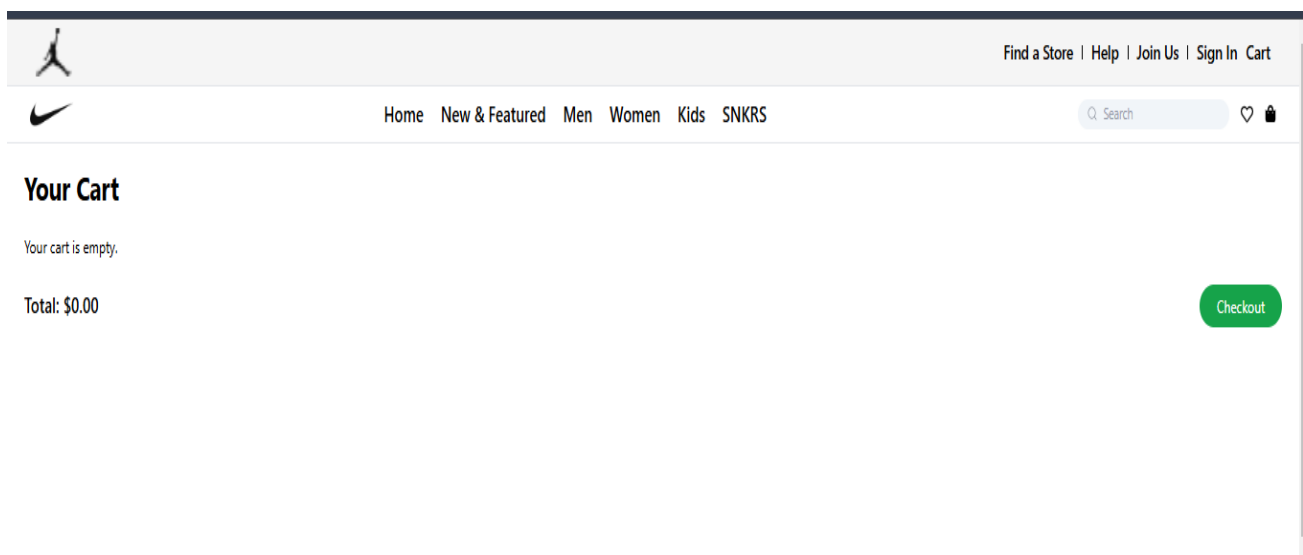
Cart

Overview:

The `CartPage` component displays the contents of a user's shopping cart, provides functionality to update the cart, and allows users to proceed to checkout. It is implemented using React hooks (`useState` and `useEffect`) and stores the cart data in the browser's `localStorage` for persistence across page reloads.

Features:

1. **Display Cart Items:** The cart contents are retrieved from `localStorage` and displayed in a list.
2. **Add Products to Cart:** Products can be added to the cart, updating the quantity if the product already exists in the cart.
3. **Remove Products from Cart:** Individual products can be removed from the cart.
4. **Checkout Button:** The cart page provides a button to navigate to the checkout page.
5. **Persistent Cart:** The cart persists across page reloads by storing cart data in `localStorage`.



Usage:

1. **Cart Persistence:** The cart items are stored in the browser's `localStorage`, which means the cart will persist across page reloads or browser restarts.
2. **Adding and Removing Products:** Products can be added or removed from the cart by interacting with the respective buttons.
3. **Checkout:** When the user clicks the **Checkout** button, they are redirected to the checkout page (`/checkout`)

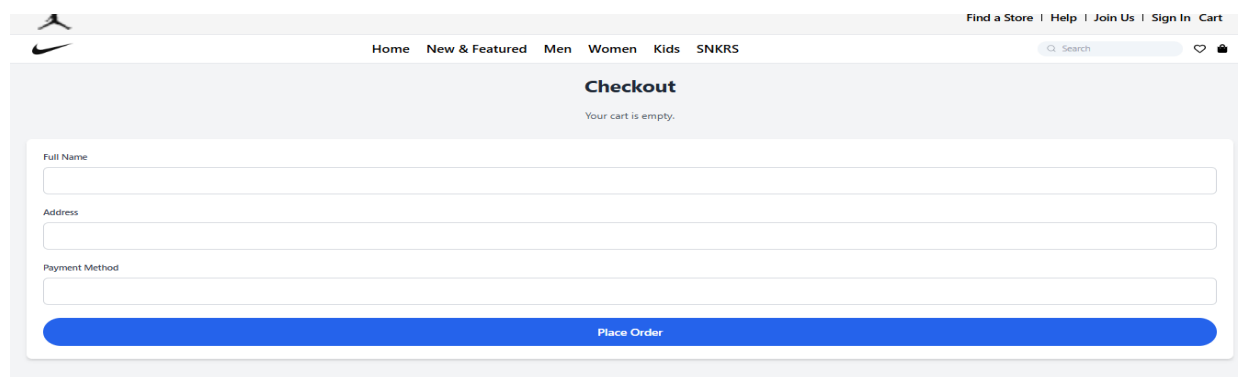
Checkout

The `CheckoutPage` component is a part of the checkout process in a shopping cart flow. It allows users to review their order, input their details (name, address, payment method), and submit the order. The page also includes form validation, success/error alerts, and cart persistence via `localStorage`.

Features:

1. **Cart Summary:** Displays a summary of the cart with product details, including name, quantity, price, and total amount.
2. **Form for User Details:** Users are prompted to enter their name, address, and payment method.
3. **Alert Messages:** Success and error messages appear based on form validation and submission.
4. **Checkout Button:** A button that submits the order and clears the cart.
5. **Persistent Cart:** The cart persists using `localStorage` so that items remain even after page reloads.

Responsive Design: Uses Tailwind CSS for styling, making it adaptable to various screen sizes



The screenshot shows the Nike Checkout page. At the top, there is a navigation bar with the Nike logo on the left and links for 'Find a Store', 'Help', 'Join Us', 'Sign In', and 'Cart' on the right. Below the navigation bar, there is a secondary bar with links for 'Home', 'New & Featured', 'Men', 'Women', 'Kids', and 'SNKRS'. A search bar is also present on the right side of this bar. The main heading is 'Checkout', followed by the message 'Your cart is empty.' Below this, there are three input fields labeled 'Full Name', 'Address', and 'Payment Method'. At the bottom, there is a large blue button labeled 'Place Order'.

6.

Next Steps:

1. **Form Validation:** The form currently only checks if all fields are filled out. You can enhance validation by adding more checks, such as validating the payment method or address format.
2. **Handle Payment:** You can implement an actual payment gateway (e.g., Stripe, PayPal) for processing payments.
3. **API Integration:** Instead of logging to the console, integrate with an API to submit the order details to a server.
4. **Error Handling:** Add more robust error handling, e.g., for network issues or failed API requests.

Let me know if you need any additional functionality or help with the next steps!

The End