

Day 4 – Dynamic Frontend Components for Nike E-Commerce Website

Functional Deliverables:

1. Dynamic Product Listing Page:

- A search bar allows users to search for products by name, description, or tags. It redirects to a category page and displays a friendly message if no matching results are found.
- Includes filtering options to narrow down products based on categories, price, color, size, and other attributes.

2. Product Detail Pages:

- Each product has a dedicated page with all relevant details and accurate navigation.
- Utilizes dynamic routing through slugs for seamless access and better SEO performance.

3. User Account and Dashboard:

- Users can log in to view their personalized dashboard.
- User data, such as names, contact information, and addresses, is securely managed in Sanity.

4. Checkout Process:

- The checkout page allows users to review, add, or remove items from their cart and finalize their orders.
- Ensures users complete missing details via a form before placing an order.
- Saves order details securely in Sanity for efficient processing.

Code Deliverables:

1. Reusable Components:

- **Card Component:** Dynamically displays product details using props for reusability.

- **Filter Component:** Provides filtering functionality for various attributes like category, price, color, and size.

2. API Integration and Routing:

- Implements dynamic routing scripts to handle product pages efficiently and deliver a smooth browsing experience.
- Incorporates secure authentication and robust form validation for order submission.

Documentation:

Technical Summary:

- **Steps Taken:**

- Created dynamic components for search and filter functionalities.
- Added user authentication and developed a dashboard for tracking orders.
- Implemented dynamic routing for product pages and built a streamlined checkout process.

- **Challenges Faced:**

- Encountered security issues with the search bar. Resolved them by applying query validation and proper handling within an hour.
- Debugged API integration issues to ensure smooth routing and functionality for dynamic pages.

- **Best Practices Followed:**

- Adopted a modular development approach to create reusable components.
- Used Sanity CMS features for secure management of user data.

Future Plans for Improvement:

1. Payment Integration:

- Add a secure payment gateway for easier and safer transactions.

2. Shipping Service:

- Partner with a trusted shipping provider to enhance the delivery process.

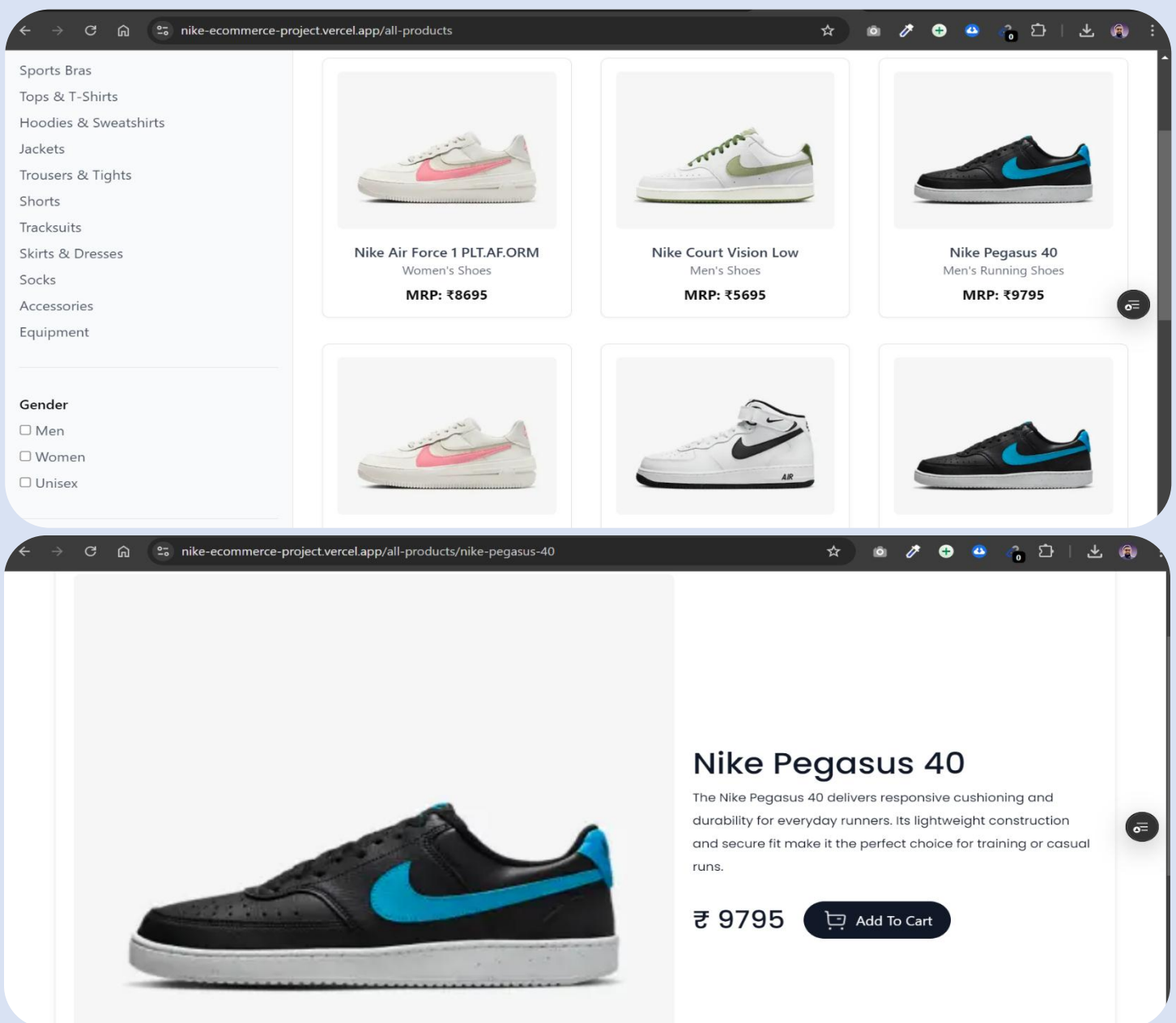
3. Admin Panel:

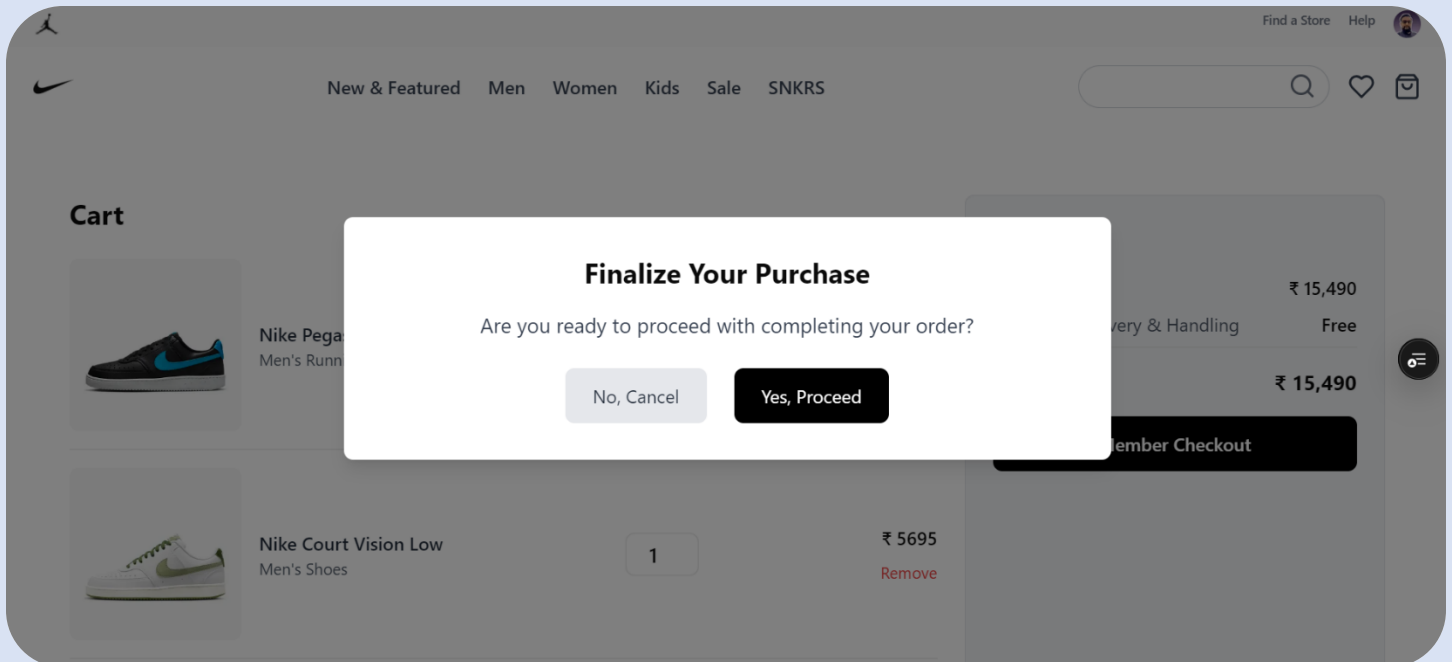
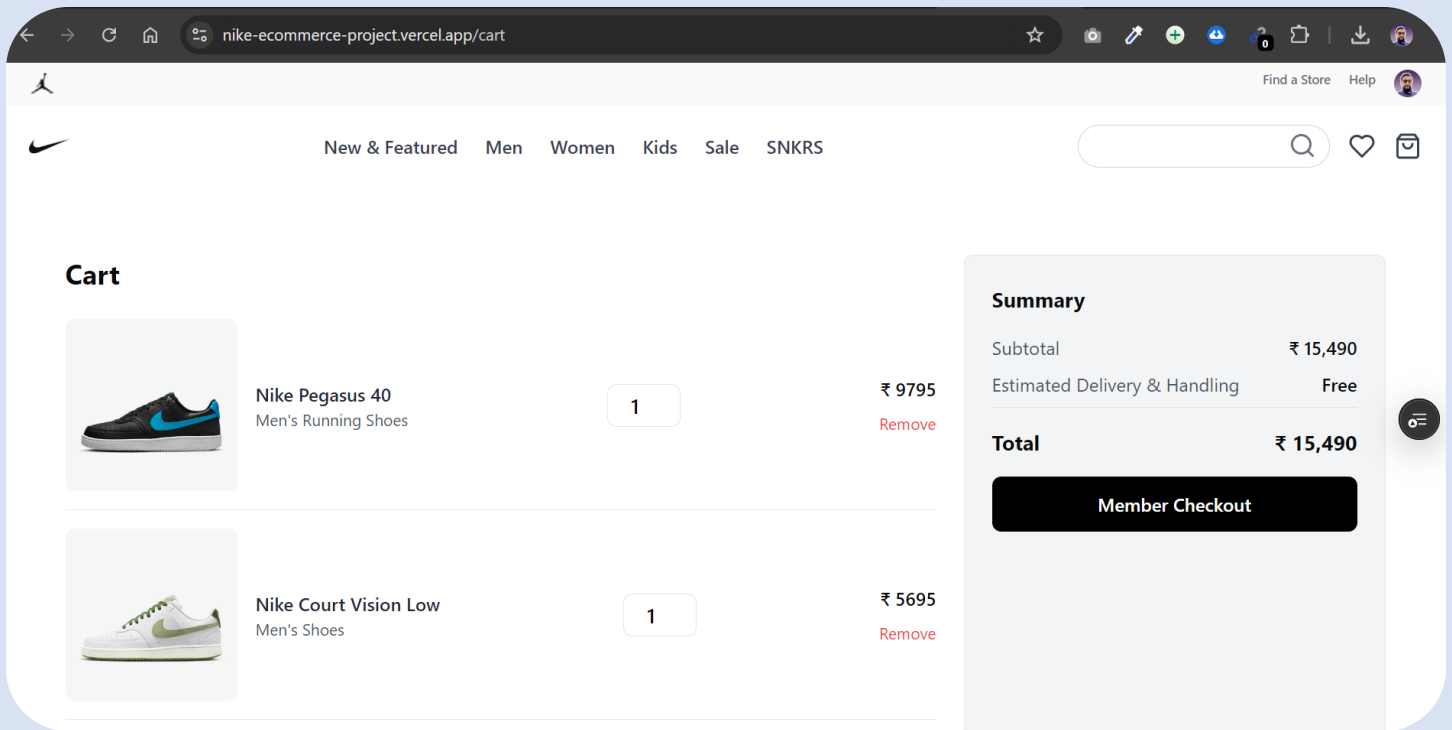
- Build an admin dashboard to oversee active and pending orders, along with detailed order management.
- Enable bulk product uploads through CSV files for effective inventory handling.

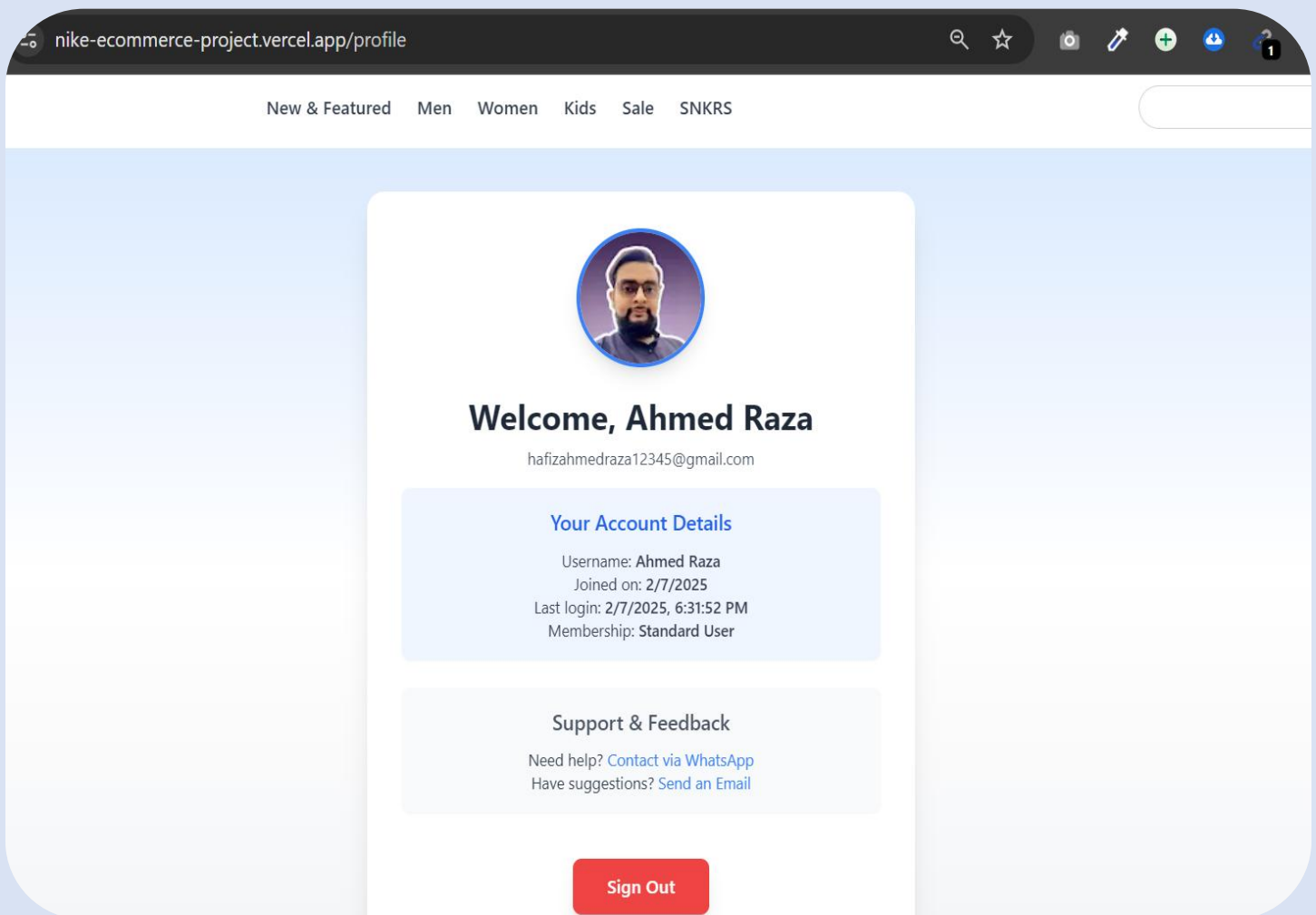
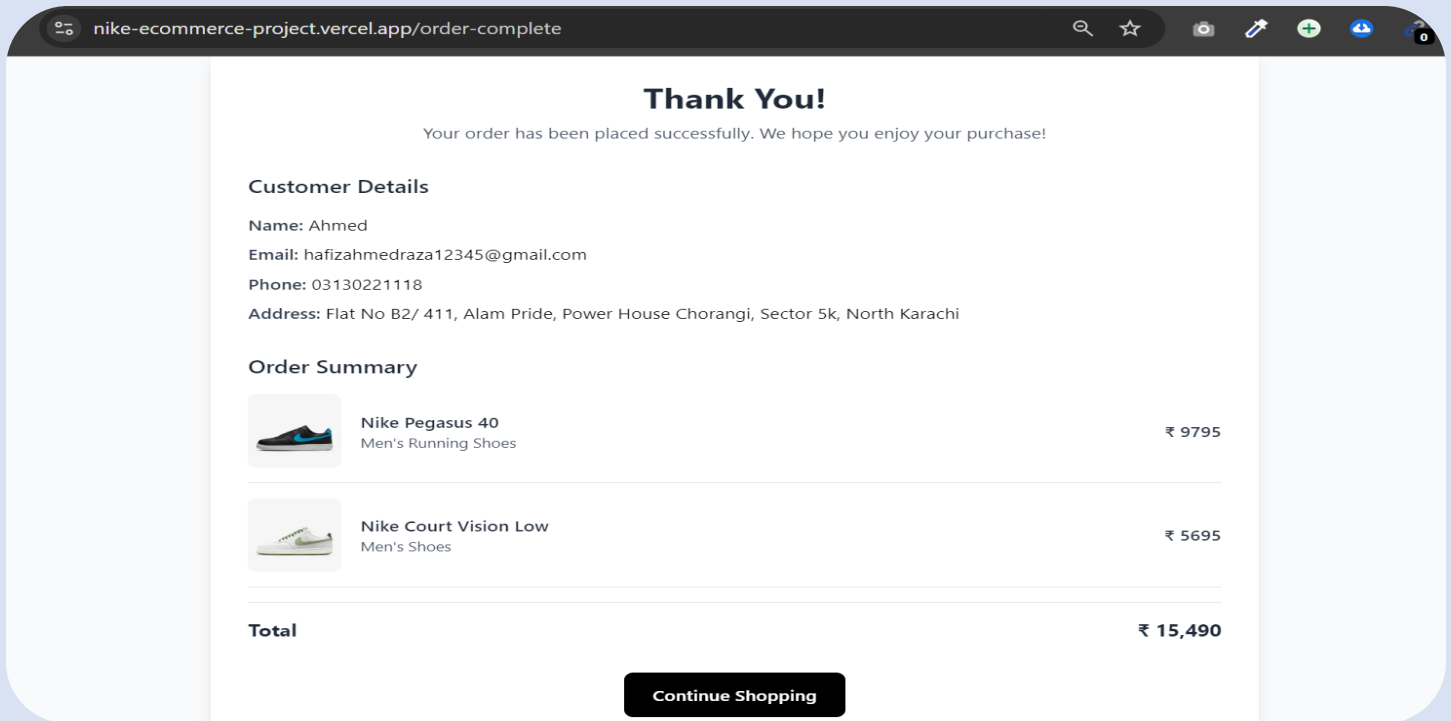
4. Enhanced User Experience:

- Introduce customer support features to provide better assistance.
- Continuously optimize website performance and add new functionalities to address user needs.

Screenshot of the Components







Thank You