Day 4 - Dynamic Frontend Components
Presented by : *MAHNOOR ADNAN*
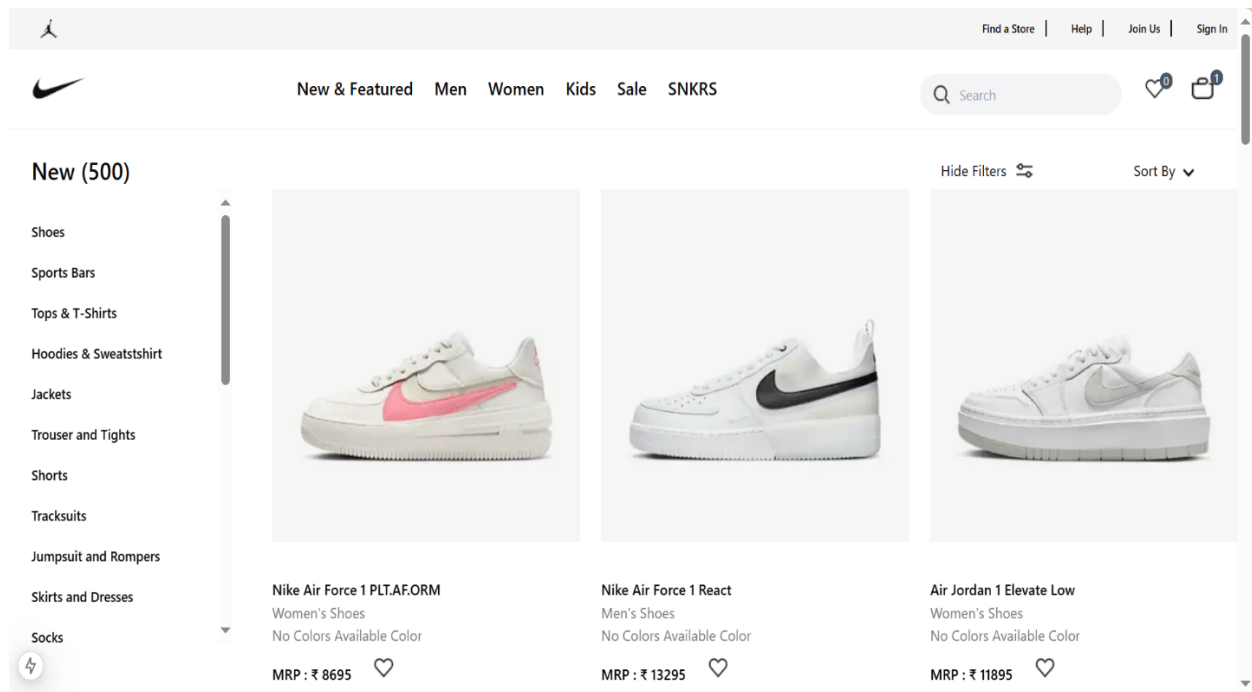
1. Introduction

This documentation provides an overview of the dynamic frontend components developed for the shoe marketplace. These components help in creating a seamless and interactive user experience, ranging from product browsing to checkout. The components include a product listing page, individual product detail pages, user authentication pages (signup/login), cart, checkout, wishlist,search functionality and msuch more…

2. Functional Deliverables

a. Product Listing Page with Dynamic Data

- **Description:** The product listing page dynamically displays all available shoes in the marketplace. Each product is rendered with its image, name, price, stock and a link to its detail page.

- **Features:**

    - **Dynamic Data Fetching:** Products are fetched from an API, ensuring that the page always shows the latest product data.

    - **Category Filters:** Users can filter the products by various categories such as Men , Women , Kids .

OUTCOME :

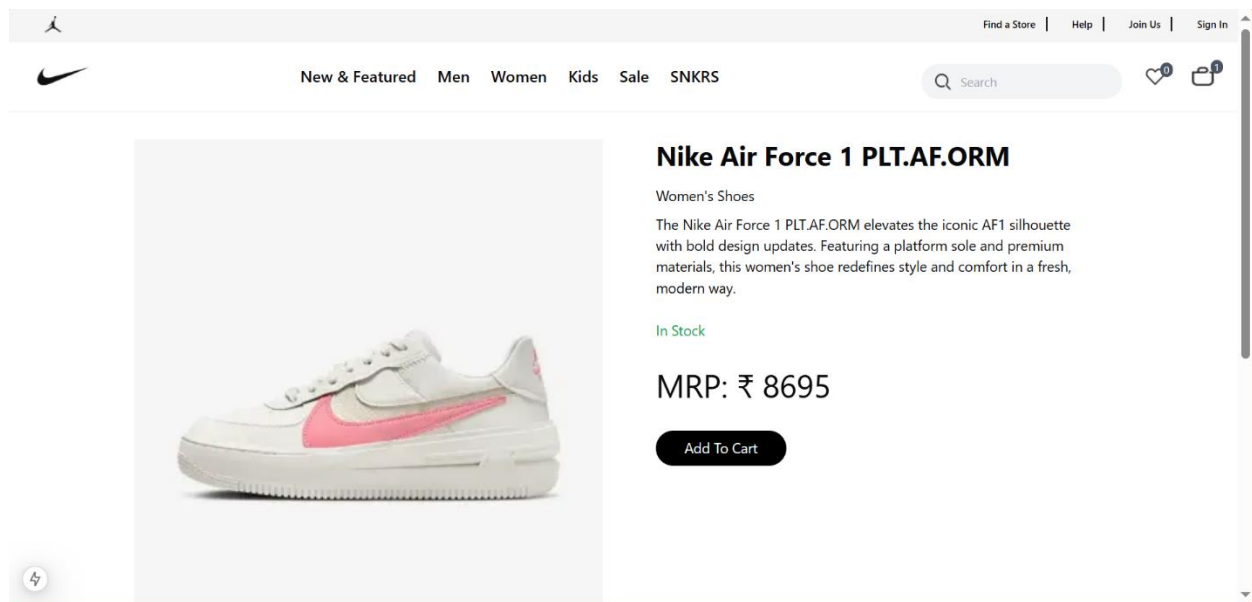# b. Individual Product Detail Pages

Description: Each shoe has its own dedicated product detail page that shows additional information such as product description, images, available sizes, and price. This page is dynamically rendered based on the product's unique ID.

Features:

- **Dynamic Routing:** The product detail page is dynamically created using Next.js's dynamic routing (/product/[id]).

- **Real-time Data Rendering:** Data such as product images, size options, and pricing are fetched dynamically, ensuring that users see up-to-date details.
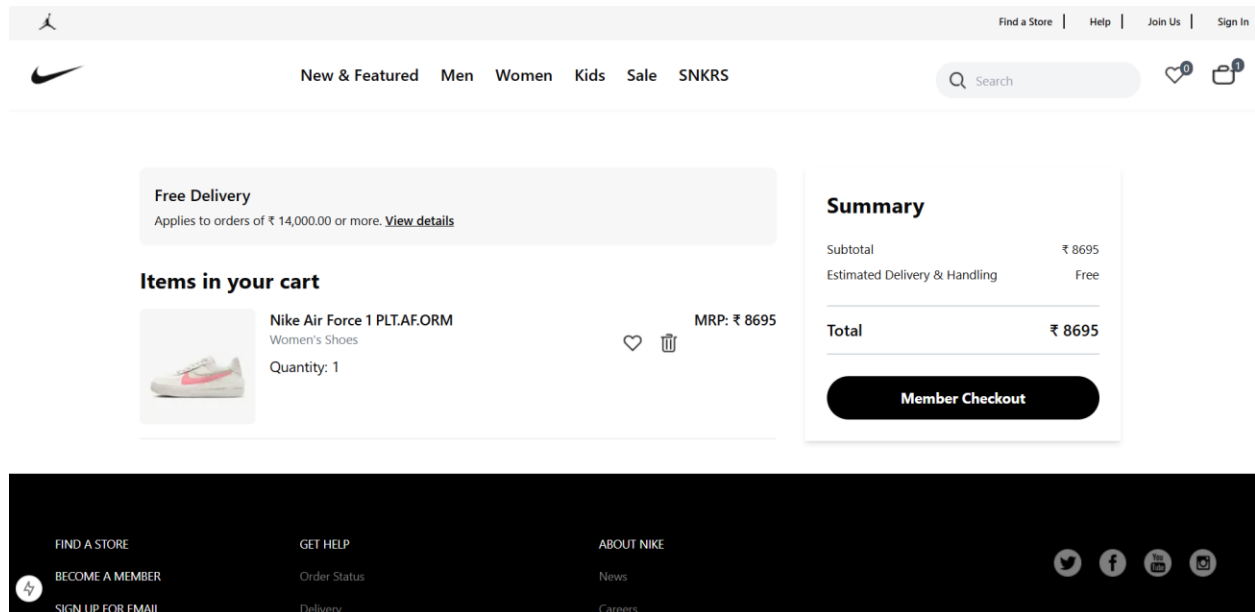
OUTCOME :

C. Cart Page

Description: The cart page shows the list of items that the user has added to their shopping cart. It includes options to modify quantities or remove items, and it also displays the total price.

Features:

- **Cart State Management:** The cart is stored in a global state using React's context API or state management tools.

- **Dynamic Update:** The cart updates dynamically as items are added or removed.

- **Total Price Calculation:** The total price is recalculated whenever items are modified in the cart.

OUTCOME :

d. Checkout Page

Description: The checkout page allows users to finalize their purchase by providing their shipping details, selecting a payment method, and reviewing the order summary.

 Features:

- **Form Handling:** The checkout page includes various input fields for collecting user information (e.g., name, address, email).

- **Order Summary:** The page dynamically shows an order summary with details like products, quantities, prices, and delivery charges.

- **Payment Integration:** The page is integrated with a payment gateway, allowing users to complete their orders securely.

OUTCOME:

How would you like to get your order?

Customs regulation for India require a copy of the recipient's KYC. The address on the KYC needs to match the shipping address. Our courier will contact you via SMS/email to obtain a copy of your KYC. The KYC will be stored securely and used solely for the purpose of clearing customs (including sharing it with customs officials) for all orders and returns. If your KYC does not match your shipping address, please click the link for more information. Learn More

Deliver it

Enter Your Name and Address:

First Name

Last Name

Address Line 1

Address Line 2

Address Line 3

Postal Code

Locality

state/teritory

Province

☐ Safe this address to my profile

☐ Make this my preferred address

what's your contact information?

Email

A conformation email will be sent after checkout

Phone Number

A carier might contact to you confrom delivery

What's your PAN

PAN

Enter your PAN to enable payment with UPI, Net Banking or local card methods

☐ Save PAN details to Nike Profile

☐ I have read and consent to eShopWorld processing my information in accordance with the Privacy Statement and Cookie Policy. eShopWorld is a trusted Nike partner.

Continue

Payment Method

All transactions are secure and encrypted.

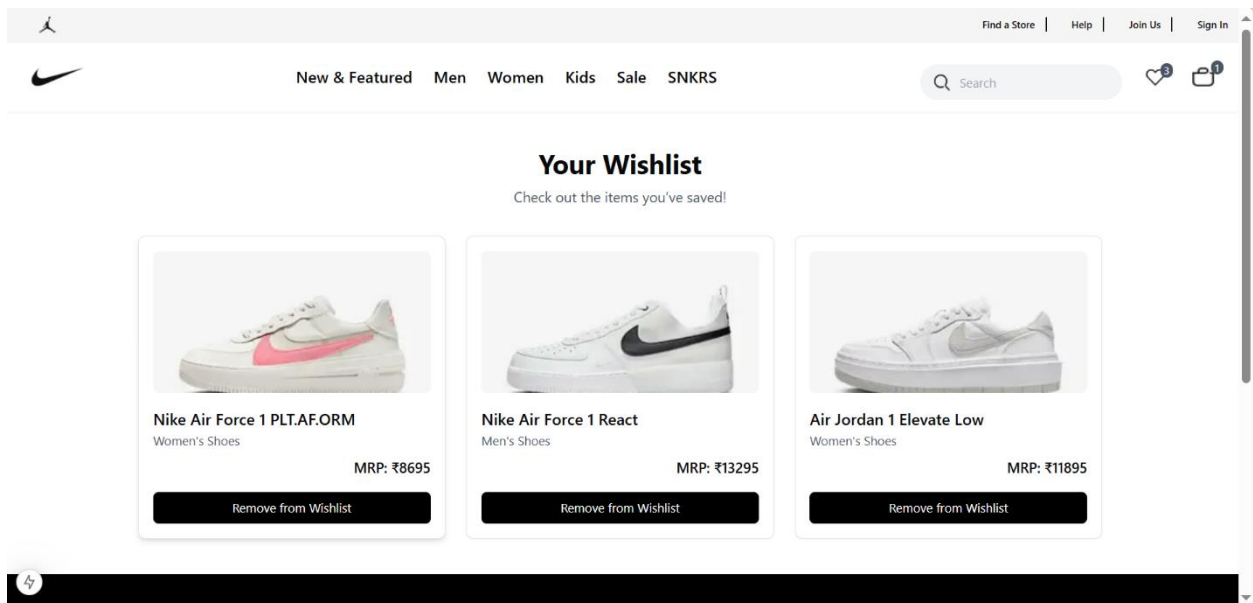○ Bank Deposit

○ Cash on Delivery

e. Wishlist Page

Description: The wishlist page allows users to save products they are interested in buying later. The wishlist can be managed (add/remove items) by the user.

Features:

- **Wishlist Management:** Users can add and remove products from their wishlist.

- **Persistent Data:** The wishlist persists across sessions by saving it in local storage or the backend.
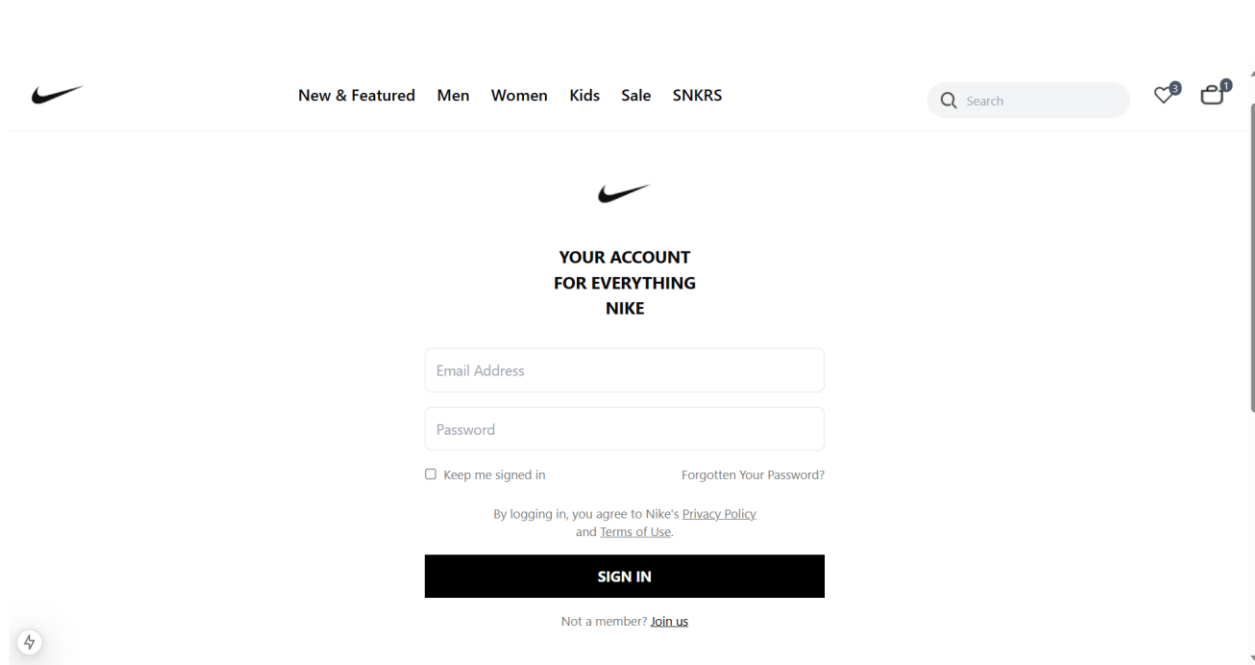
OUTCOME:

f. Signup Page

Description: The signup page is where new users can create an account by providing their credentials. This page is connected to the backend for user registration.

Features:

- Form Handling: Collects user information, including email, password, and username.

- Form Validation: Validation is implemented to ensure that users enter the correct information before submission.

- Authentication: On successful registration, users are redirected to the login page or home page.

OUTCOME:

g. Join Us Page

Description: The Join Us page encourages users to register and become part of the marketplace. It provides details about the benefits of joining the site and includes a signup form.

Features:

- Signup Form: The form collects user details such as name, email, and password.

- Dynamic Validation: Real-time validation is applied to the form fields (e.g., ensuring the email format is correct).

OUTCOME:

BECOME A NIKE MEMBER

Create your Nike Member profile and get first access to the very best of Nike products, inspiration and community.

Email Address

Password

First Name

Last Name

Date Of Birth

Get a Nike Member Reward every year on your Birthday.

India

| Male | Female |

☐ Sign up for emails to get updates from Nike on products, offers, and your Member benefits

By creating an account, you agree to Nike's Privacy Policy and Terms of Use.

JOIN US

h. Help Page

Description: The help page provides FAQs and contact details to assist users with any questions or issues they may have.

Features:

- Frequently Asked Questions (FAQs): A list of common queries with answers.

- Contact Form: A form allowing users to send messages for additional support.

3

1

Search

GET HELP

What can we help you wit

WHAT PAYMENT OPTIONS CAN I USE ON NIKE ORDERS?

We want to make buying your favourite Nike shoes and gear online fast and easy, and we accept the following payment options:

Visa, Mastercard, Diners Club, Discover, American Express...

If you enter your PAN information at checkout, you'll be able to pay for your order with PayTM or a local credit or debit card.

Apple Pay

Nike Members can store multiple debit or credit cards in their profile for faster checkout. If you're not already a Member, join us today.

Join Us   Shop Nike

FAQs

Does my card need international purchases enabled?
Yes, we recommend asking your bank to enable international purchases on your card...

Please note, some banks may charge a small transaction fee for international orders.

Can I pay for my order with multiple methods?

No, payment for Nike orders can't be split between multiple payment methods.

What payment method is accepted for SNKRS orders?

You can use any accepted credit card...

Why don't I see Apple Pay as an option?
To see Apple Pay as an option in the Nike App or on Nike.com, you'll need to use a compatible Apple device...

Was this answer helpful?

👍 👎

CONTACT US

000 800 919 0566
Products & Orders: 24/7
Company Info: 7:30 - 16:30, Mon - Fri

24 hours a day

7 days a week

We'll reply within

Five business days

STORE LOCATOR
Find Nike retail stores near you

FIND A STORE
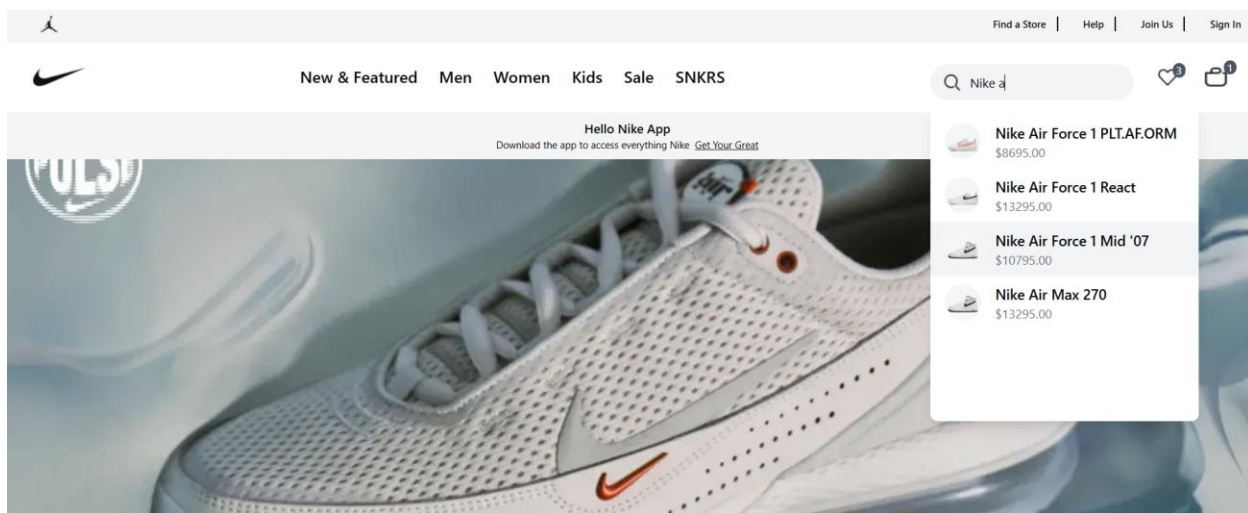
BECOME A MEMBER

SIGN UP FOR EMAIL

Send us Feedback

i. Search Bar Implementation

Description: The search bar component allows users to quickly search for shoes by name, type, or other attributes.

Features:

- **Dynamic Search:** As users type, the search results update dynamically to show relevant products.

- **Auto-suggestions:** Suggestions appear based on the text entered in the search field.

OUTCOME :

3. Challenges and Solutions

a. Challenges Faced:

- **Dynamic Routing for Product Pages:** Setting up dynamic routing for product pages based on product ID required careful handling of data fetching and state management.

- **State Management Across Multiple Pages:** Managing the state of the cart and wishlist across multiple pages was complex, but it was solved using React context and local storage.

b. Solutions Implemented:

- **Dynamic Routing and Data Fetching:** Used Next.js's dynamic routes and API calls to fetch data for product pages.

- **Global State with React Context:** Leveraged React context to manage global state for cart and wishlist, ensuring data is accessible across all pages.

c. Best Practices Followed:

- **Component Reusability:** Components were designed to be reusable, such as the ProductCard, which can be used on both the product listing and detail pages.

- **Performance Optimization:** Lazy loading and code splitting were used to optimize page load times.

4. Conclusion:

In this project, we successfully developed and integrated dynamic frontend components for the shoe marketplace, ensuring a seamless and user-friendly experience. The key features implemented, including the product listing page, dynamic product detail pages, cart, checkout, wishlist, and search bar, provide essential functionality for a modern eCommerce platform.

By leveraging efficient state management, dynamic routing, and reusable components, the development process was optimized, resulting in a scalable and maintainable codebase. Despite challenges such as managing global state and dynamic data fetching, solutions like React Context API and Next.js's API routes allowed for robust implementation.