
DAY4 DYNAMIC FRONTEND COMPONENTS

E-Commerce (HELLO NIKE)

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1. Introduction:

- Briefly describe the project:

"This assignment focuses on building dynamic frontend components for a marketplace using modern web development practices. The goal is to create responsive, reusable, and scalable components that fetch data dynamically and provide a seamless user experience."

2. Objectives:

- ❖ To create a user-friendly platform for browsing and purchasing shoes.
- ❖ To implement robust search and filtering mechanisms for better product discoverability.
- ❖ To enhance user engagement with wishlist and order confirmation features.
- ❖ To ensure secure and efficient checkout processes.
- ❖ To provide a responsive design that works seamlessly across all devices.

3. Required Components:

- Product Listing Component:

Displays all products in a grid layout, ensuring users can view multiple items at a glance.

- Product Detail Component:

Dynamically displays individual product details, including images, descriptions, and pricing.

- **Search Bar:**

Allows users to search for specific products and filter results for quicker navigation.

- **Category Component:**

Filters products by categories, enabling users to refine their search results efficiently.

- **Wishlist Component:**

Enables users to save favorite products for later purchases, improving the overall user experience.

- **Order Confirmation Component:**

Confirms the user's order details post-checkout, including order number and summary.

- **Cart Component:**

Tracks added products and displays the cart summary, including total price and item count.

- **Checkout Component:**

A multi-step form guiding users through the purchasing process, from entering shipping details to completing payment.

4. Features and Functionalities:

1. Dynamic Frontend Components:

Wishlist, Order Confirmation, and Filter by Category functionalities.

Interactive and responsive UI with tailored components.

2. User Account Management:

Secure login and registration system.

Profile dashboard with order history and saved items.

3. Product Management:

Add, update, or remove products with ease through an admin panel.

4. Search and Filters:

Search bar with real-time suggestions.

Filters for categories, brands, and price range.

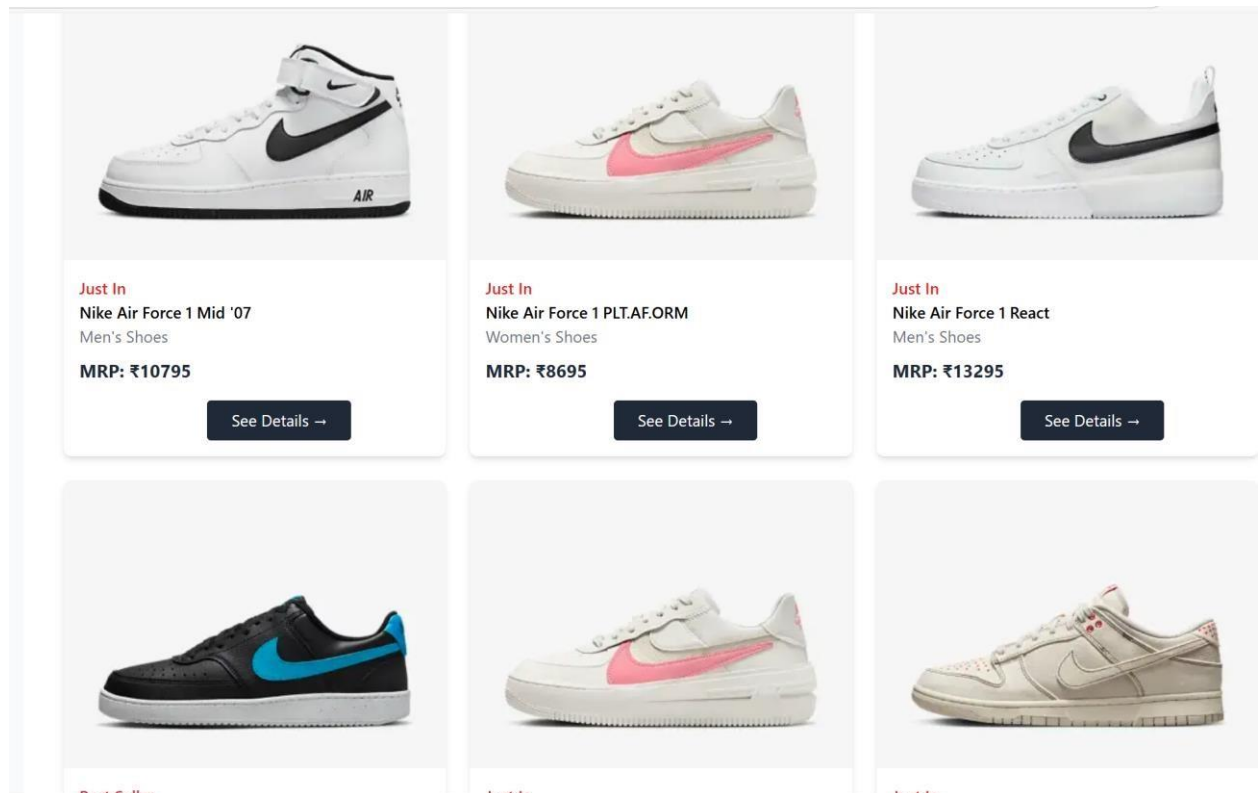
5. Cart and Checkout:

Intuitive cart management with editable quantities.

Smooth checkout with payment gateway integration.

6. Screenshots of Components:

Product Listing Page.



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11  const Blog = () => {
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17  /** Product Grid */
18
19  <div className="grid grid-cols-1 sm:grid-cols-2 md:grid-cols-3 gap-4 lg:gap-6">
20    {currentProducts.length > 0 ? (
21      currentProducts.map((prod) => {
22        <div
23          key={prod._id}
24          className="bg-white rounded-lg overflow-hidden shadow-md hover:shadow-lg transition"
25        >
26          <div
27            className="relative w-full h-56 sm:h-64 lg:h-72"
28          >
29            {prod.image && {
30              <Image
31                src={urlFor(prod.image).url()}
32                alt={prod.productName}
33                className="rounded-t-lg"
34              />
35            )}
36          </div>
37          <div className="p-4">
38            <h3 className="text-red-600 font-semibold">{prod.status}</h3>
39            <h3 className="text-black font-semibold">{prod.productName}</h3>
40            <p className="text-gray-500 mb-2">{prod.category}</p>
41            <p className="text-lg font-bold">{prod.price}</p>
42            <Link
43              href={`/product/${prod._id}`}
44              passHref
45              className="mt-4 block bg-gray-800 w-36 ml-32 text-white text-center py-2 rounded hover:bg-gray-900"
46            >
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```

```
return (  
  <div className="max-w-4xl mx-auto py-8 px-4 grid grid-cols-1 lg:grid-cols-2 gap-8">  
    {  
      /* Product Image Section */  
      <div className="flex justify-start">  
        {product.image && (  
          <Image  
            src={urlFor(product.image).url()}  
            alt={product.productName}  
            width={500}  
            height={500}  
            className="w-full h-auto object-contain"  
          />  
        )}  
      </div>  
  
      <div className="flex flex-col justify-start">  
        {  
          /* Product Name and Details */  
          <h1 className="text-4xl font-bold mt-3">{product.productName}</h1>  
          <p className="text-xl text-black font-serif mt-2 mb-1">{product.category}</p>  
          <p className="text-lg text-black font-light mt-2 mb-3">{product.description}</p>  
          <p className="text-lg text-black font-bold ml-2 mt-2 mb-3">PKR: {product.price}</p>  
          <p className="text-lg text-black font-semibold mt-2 mb-2">Color: {product.colors}</p>  
  
          {  
            /* Quantity Selection */  
            <div className="mt-1 mb-2">  
              <label className="text-lg text-blue-900 font-medium">Quantity</label>  
            </div>  
          )}  
        </div>  
      </div>  
    )  
  </div>  
)
```

Product 1:



Nike Air Force 1 Mid '07

Men's Shoes

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.

PKR: 10795

Color: White

Quantity

Add to Cart

Add to Wishlist

Product 2:



Nike Zoom Fly 5

Men's Running Shoes

The Nike Zoom Fly 5 provides next-level speed with responsive cushioning and a sleek, aerodynamic design. Its lightweight upper and durable outsole make it ideal for race day or intense training.

PKR: 11295

Color: BlackWhite

Quantity

Add to Cart

Add to Wishlist 

Search Bar in Action:

```
return (  
  <div className="min-h-screen bg-white p-4 sm:p-6 lg:p-10">  
    {/* Search Bar */}  
    <div className="mb-6 relative">  
      <input  
        type="text"  
        placeholder="Search products by name"  
        value={searchTerm}  
        onChange={(e) => setSearchTerm(e.target.value)}  
        className="w-full px-4 py-2 border border-gray-300 rounded-lg focus:outline-none focus:ring focus:ring-gray-600 pr-10"  
      />  
      <FaSearch className="absolute right-4 top-1/2 transform -translate-y-1/2 text-black" />  
    </div>  
  </div>  
)
```



Search bar in product listing page.

jersey

All

Men's Shoes

Women's Shoes

Men's Running



Just In

Nike Standard Issue Basketball Jersey

Women's Basketball Jersey

MRP: ₹2895

[See Details →](#)

Cart Functionality.

localhost:3000 says

Product added to cart! Do you want to view your cart?

OK

Cancel



Show notification

```
const handleAddToCart = () => {
  if (!product) return;


  addToCart({
    id: product._id,
    name: product.productName,
    price: product.price,
    quantity,
    image: product.image ? urlFor(product.image).url() : "",
  });

  // Show notification with confirm dialog
  const confirmNavigation = confirm("Product added to cart! Do you want to view your cart?");
  if (confirmNavigation) {
    router.push("/cart");
  }
};
```

[New & Featured](#)
[Men](#)
[Women](#)
[Kids](#)
[Sale](#)
[SNKRS](#)

Your Shopping Cart



Nike Pegasus 40

PKR 9795 x 1

Remove

Continue Shopping

Cart Summary

Subtotal **PKR 9795.00**


Clear Cart

Proceed to Checkout


Checkout:


```
page.tsx U X
src > app > checkout > page.tsx > CheckoutPage
8   export default function CheckoutPage() {
19   const handleSubmit = (e: React.FormEvent) => {
24     clearCart();
25     router.push("/order-success");
26   };
27   return (
28     <div className="max-w-6xl mx-auto py-10 px-6 ml-28">
29       <h1 className="text-4xl font-bold mb-8">Checkout</h1>
30
31       {cart.length === 0 ? (
32         <p>Your cart is empty. Please add items to your cart before checking out. </p>
33
34       ) : (
35         <div className="grid grid-cols-1 lg:grid-cols-3 gap-8">
36           <div className="lg:col-span-2 space-y-4">
37             {cart.map((item) => (
38               <div key={item.id} className="flex items-center justify-between border-b pb-4">
39                 <div className="flex items-center">
40                   <img
41                     src={item.image}
42                     alt={item.name}
43                     width={80}
44                     height={80}
45                     className="rounded shadow"
46                   />
47                   <div className="ml-4">
48                     <h2 className="text-lg font-semibold">{item.name}</h2>
49                     <p className="text-sm text-gray-600">
50                       PKR {item.price} x {item.quantity}
51                     </p>
52                   </div>
53                 </div>
54               </div>
55             ))}
56           <div>
57             <h3>Order Summary</h3>
58             <p>Subtotal PKR 17690.00</p>
59             <input type="text" value="hello" />
60             <input type="text" value="hawksbay" />
61             <input type="text" value="123@gmail.com" />
62             <input type="text" value="3456789" />
63             <button>Place Order</button>
64           </div>
65         </div>
66       )}
67     </div>
68   );
69 }
```

Checkout



Nike Pegasus 40
PKR 9795 x 1



Nike Waffle One SE
PKR 7895 x 1

Order Summary

Subtotal **PKR 17690.00**

Place Order

Order Success:

Order Placed Successfully!

Thank you for your purchase! We are processing your order, and you will be redirected to the homepage shortly.

Order ID: #12345

Estimated Delivery: 3-5 business days



Your order is confirmed and is being processed by our team.
You will receive a confirmation email shortly.

[Go to Homepage](#)



Wishlist Functionality:

Your Wishlist



Nike Pegasus 40

Price: 9795 PKR

[View Product](#)

[Remove](#)

[Continue Shopping](#)

```
const handleAddToWishlist = () => {
  if (!product) return;

  addToWishlist({
    id: product._id,
    name: product.productName,
    price: product.price,
    image: product.image ? urlFor(product.image).url() : "",
  });

  router.push("/wishlist");
};

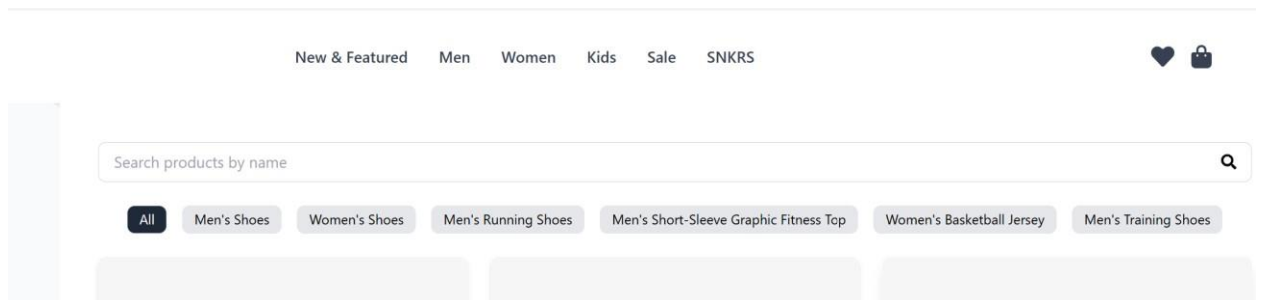
// Render Stars Based on Rating
const renderStars = (rating: number) => {
  const fullStars = Math.floor(rating);
  const halfStars = rating % 1 >= 0.5 ? 1 : 0;
  const emptyStars = 5 - fullStars - halfStars;
```

Filter By category:

```

    { /* Category Filter */ }
    <div className="mb-6 flex flex-wrap gap-3 sm:gap-4">
      {categories.map((category) => (
        <button
          key={category}
          onClick={() => setSelectedCategory(category)}
          className={`px-3 py-1 text-sm rounded-lg border ${
            selectedCategory === category
              ? "bg-gray-800 text-white"
              : "bg-gray-200 text-black hover:bg-gray-300"
            }`}
        >
          {category}
        </button>
      ))}
    </div>

```



Pagination:



```

{/* Pagination */}
{totalPages > 1 && (
  <div className="mt-6 flex justify-center items-center gap-2">
    <button
      onClick={() => handlePageChange(currentPage - 1)}
      disabled={currentPage === 1}
      className="px-3 py-1 bg-gray-200 rounded-lg hover:bg-gray-300 disabled:bg-gray-100"
    >
      Previous
    </button>
    {Array.from({ length: totalPages }, (_, index) => index + 1).map((page) => (
      <button
        key={page}
        onClick={() => handlePageChange(page)}
        className={`px-3 py-1 rounded-lg ${
          currentPage === page
            ? "bg-gray-800 text-white"
            : "bg-gray-200 hover:bg-gray-300"
        }`}
      >
        {page}
      </button>
    ))}
    <button
      onClick={() => handlePageChange(currentPage + 1)}
      disabled={currentPage === totalPages}
      className="px-3 py-1 bg-gray-200 rounded-lg hover:bg-gray-300 disabled:bg-gray-100"
    >
      Next
    </button>
  </div>
)}

```



Best Seller
Nike Pegasus 40
 Men's Running Shoes

MRP: ₹9795

[See Details →](#)



Just In
Nike Zoom Fly 5
 Men's Running Shoes

MRP: ₹11295

[See Details →](#)



Just In
Nike Waffle One SE
 Women's Shoes

MRP: ₹7895

[See Details →](#)

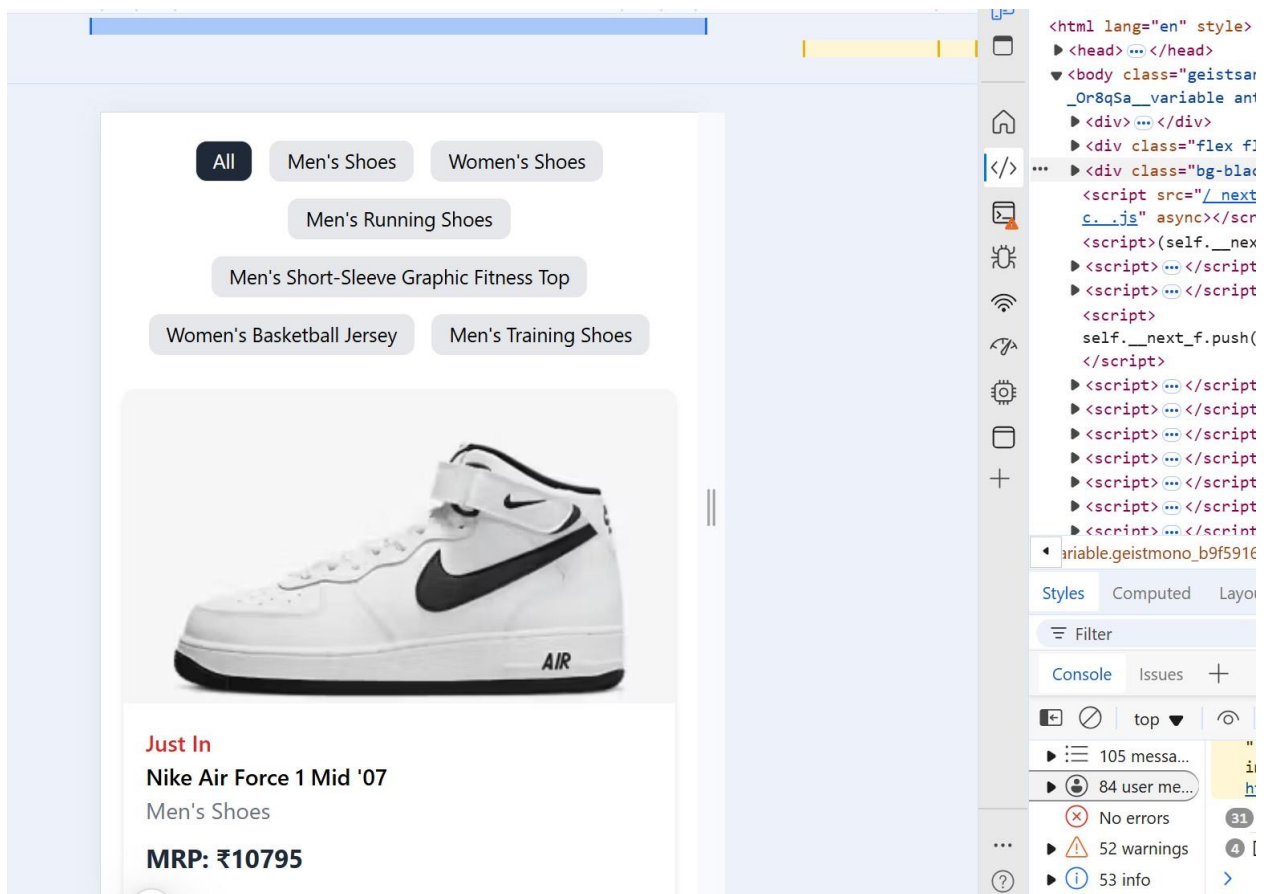
Previous **1** 2 3 Next

Responsive Design on Mobile

☐ ☐



Nike Dri-FIT ADV TechKnit Ultra
Men's Short-Sleeve Running Top



6. Challenges and Solutions:

Challenge 1: Handling API integration delays.

Solution: Used loading states to enhance user experience.

Challenge 2: Making components reusable.

Solution: Broke the design into smaller, modular pieces.

Challenge 3: Ensuring mobile responsiveness.

Solution: Applied Tailwind CSS media queries effectively.

7. Conclusion:

□ Summarize :

"Through this assignment, I gained practical experience in creating dynamic and reusable components for a marketplace. The integration of APIs and CMS with responsive designs provided a hands-on understanding of modern frontend development."
