Day 4 - Dynamic Frontend Components - LuxeWalk

Functional Deliverables:

1. **Product Listing Page with Dynamic Data:**
   - A search bar that accepts user input as a query, redirects to the category page, and filters products by name, description, or tags. If no matching products are found, a user-friendly message is displayed.
   - A filter component enabling users to filter products by category, price range, color, size, and dress style.
2. **Dynamic Product Detail Page:**
   - Individual product detail pages with accurate routing and data rendering.
   - Dynamic routing for seamless redirection to product detail pages using slug for better seo.
3. **User Authentication and Dashboard:**
   - Users can log in to view a personalized dashboard, which includes order status tracking.
   - User information, including name, contact details, and address, is stored in **Sanity**.
4. **Checkout Functionality:**
   - A checkout page where users can view, add, or remove items from their cart.
   - Users are prompted to fill out a form if their information is incomplete before placing an order.
   - Order data is securely saved in **Sanity** upon checkout.

Code Deliverables:

1. **Reusable Components:**
   - **Card :** card components take product detail as probs and show that data on the page.
   - **Filter Component:** Enables filtering based on various criteria, such as category, price, color, size, and dress style.
2. **API Integration and Routing:**
   - Scripts handle dynamic routing for product pages and ensure seamless user experience.

```
// Handle "slug" parameter
const slug = searchParams.get("slug");
console.log(`Received slug: ${slug}`);
if (slug) {
  const productBySlug = productData.find((product: { slug: string }) => product.slug === slug);
  if (productBySlug) {
    return new Response(JSON.stringify(productBySlug), {
      status: 200,
      headers: {
        "Content-Type": "application/json",
        "Cache-Control": "no-store",
      },
    });
  } else {
    return new Response(JSON.stringify({ message: "Product not found by slug." }), {
      status: 404,
      headers: { "Content-Type": "application/json" },
    });
  }
}
```

- Secure implementation of authentication and form validation for order placement.

```
const formSchema = z.object({
  user_name: z.string().min(2, "Name must be at least 2 characters"),
  email: z.string().email("Invalid email address"),
  Contact: z.string().min(10, "Phone number must be at least 10 digits"),
  address: z.string().min(5, "Address must be at least 5 characters"),
  city: z.string().min(2, "City must be at least 2 characters"),
  state: z.string().min(2, "State must be at least 2 characters"),
  zipCode: z.string().min(5, "ZIP code must be at least 5 digits"),
});
```

Documentation:

Technical Summary:

- **Steps Taken:**
  - Built dynamic components for search and filtering.
  - Implemented user authentication and created a dashboard to track orders.
  - Developed dynamic routing for product detail pages and integrated a checkout process.
- **Challenges Faced:**
  - Initially faced issues with ensuring search bar security. Resolved this by implementing proper validation and query handling after an hour of troubleshooting.

- ○ Debugged errors during API integration and ensured smooth routing for dynamic pages.
- **Best Practices Followed:**
  - ○ Followed a modular approach to create reusable components.
  - ○ Ensured secure handling of user data using Sanity's CMS features.

Future Plans for Improvement:

1. **Payment Integration:**
   - ○ Implement a secure payment gateway for hassle-free transactions.
2. **Shipping Service:**
   - ○ Collaborate with a reliable shipping service to streamline the order delivery process.
3. **Admin Panel:**
   - ○ Develop an admin dashboard to manage data such as active orders, pending orders, and order details.
   - ○ Enable product uploads via CSV files for efficient inventory management.
4. **Enhanced User Experience:**
   - ○ Introduce customer support services for better assistance.
   - ○ Continuously optimize performance and add features to meet user needs.

ScreenShots of components:

NEW ARRIVALS

T-SHIRT WITH TAPE DETAILS
★★★★★ 4.5/5
$120.00

SLEEVE STRIPED T-SHIRT
★★★★★ 4.5/5
$130.00 ~~$160.00~~ -30%

T-SHIRT WITH TAPE DETAILS
★★★★★ 4.5/5
$120.00

CHECKERED SHIRT
★★★★★ 4.5/5
$180.00

View All

SHOP.CO   Shop ∨   On Sale   New Arrivals   Brands   🔍 Search for products...   🛒 M

Dashboard   New Order

Total Orders
Your lifetime orders

2

Active Orders
Currently processing

2

Total Spent
Lifetime spending

$424.00

Recent Orders
Track your recent order status

VERTICAL STRIPED SHIRT $212   Pending
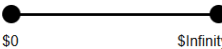Order #order-7ca1a4fb-3da8-4fa1-8744-281f8ba02f27   1/21/2025

VERTICAL STRIPED SHIRT $212

Filter

T-shirts ›

Shorts ›

Shirts ›

Hoodie ›

Jeans ›

Price ⌃

$0 $Infinity

All Products

Showing 1-10 of 18 Products   Sort by: Most Popular ⌄

Black Striped T-shirt
★★★★★ 5/5
$120 ~~$150~~ -30%

VERTICAL STRIPED SHIRT
★★★★★ 5/5
$212 ~~$232~~ -20%

VERTICAL STRIPED SHIRT
★★★★★ 5/5
$212 ~~$232~~ -20%

T-SHIRT WITH TAPE DETAILS

★★★★☆   4.5/5

$120

Select Colors

⚫ ⚪ 🔵 🔴

Choose Size

(S)   (M)   (L)   (XL)

(−)   1   (+)   **Add to Cart**

VERTICAL STRIPED SHIRT

★ ★ ★ ★ ★ 5/5

$212 ~~$232~~

Select Colors

Choose Sizes

| S | **M** | L | XL |

| − | 1 | + | **Add to Cart**

YOUR CART

VERTICAL STRIPED SHIRT
Sizes: M
Colors: White

$212

| − | 2 | + |

Order Summary

Subtotal	$424.00
Discount (-20%)	-$84.80
Delivery Fee	Not Set

| Total | $339.20 |

Go to Checkout →