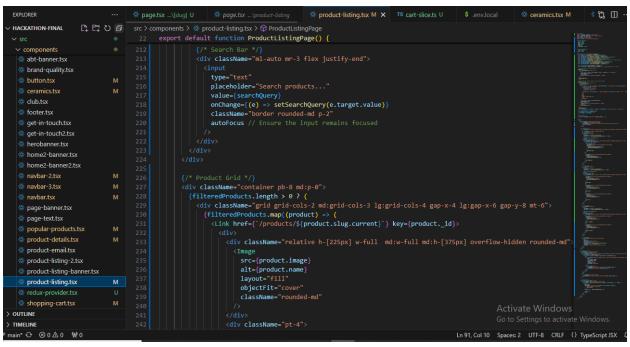
# DAY4: DYNAMIC FRONTEND COMPONENTS\_ AVION

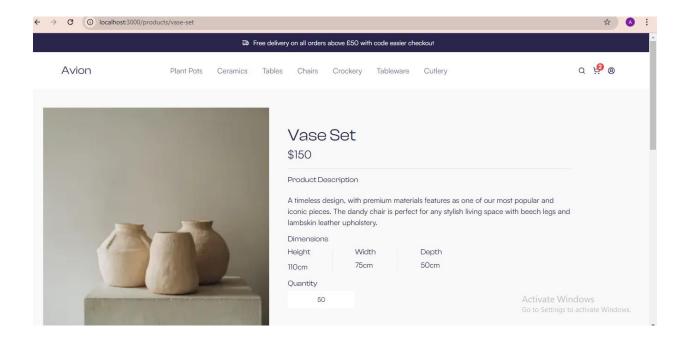
# > Dynamic Routing for products

```
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                                                                                                                                       ceramics.tsx M
                           const productQuery = `
  *[_type == "product" && slug.current == $slug][0]{
    id,
    name,
    slug,
    "image": image.asset->url,
    price,
                                                           price,
quantity,
description,
dimensions,
          > product-landing
                                                       const product: IProduct = await client.fetch(productQuery, { slug: params.slug });
          > product-listing
          > product-listing-2
                                                       const relatedroubctSquery =
    *[_type == "product" && category._ref == $categoryId && slug.current != $currentSlug][0...4]{
    __id,
    name,
    "image": image.asset->url,
    price,
    price,
          > shopping-cart
          * favicon.ico
          # globals.css
      > TIMELINE
                                                         categoryId: product.category. ref.
```

# **▶** Product Listing and Search Bar code

```
: priceFilter === "above300"
           ? "&& price >= 300'
           : ""
        } && name match "${searchQuery}*" ] | order( createdAt ${sortOrder === "older" ? "asc" : "desc"
       name,
       price,
        "image": image.asset->url,
       slug,
       createdAt
     const result = await client.fetch(query);
     setProducts(result);
    } catch (error) {
     console.error("Error fetching products:", error);
    } finally {
      setIsLoading(false);
  fetchProducts();
}, [selectedCategory, priceFilter, sortOrder, searchQuery]); // Add searchQuery as a dependency
const filteredProducts = products.slice(
 (currentPage - 1) * itemsPerPage,
 currentPage * itemsPerPage
                                                                                         Activate Windows
```







Add to cart

Save to favorites

## You might also like

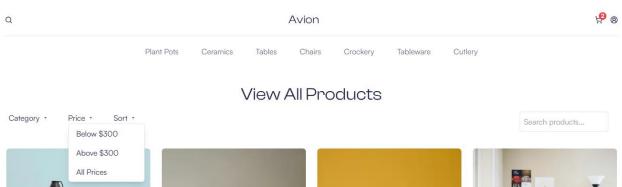




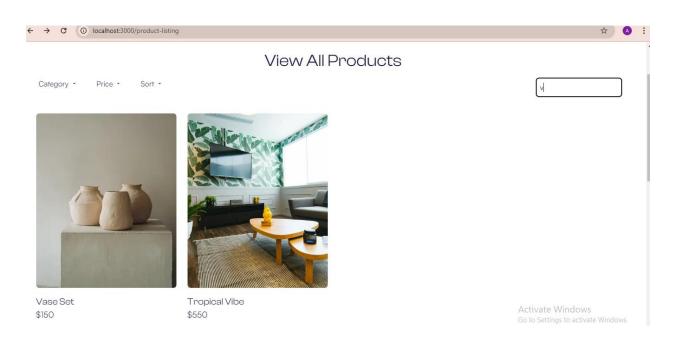


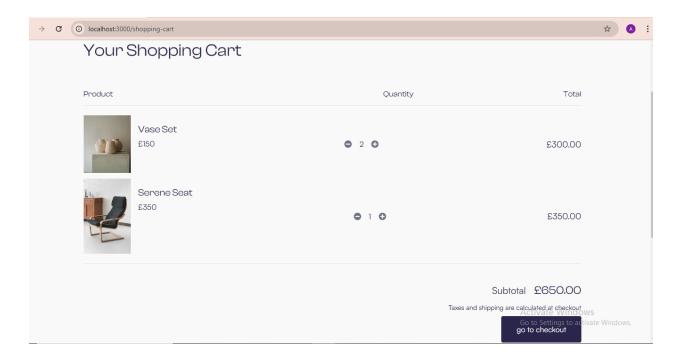


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# 3. Documentation (Technical Report)

### **Steps Taken to Build and Integrate Components:**

- Implemented the **Product Listing Page** using dynamic data fetched from Sanity CMS. Each product was displayed using a reusable ProductCard component.
- Set up **dynamic routing** for individual product pages, ensuring correct data rendering when users navigate to a product.
- Added category, price and sort filters, a search bar, and pagination to enhance user experience and allow easy navigation through the product list.
- Integrated API calls efficiently using axios to fetch and update product data.

### **Challenges Faced & Solutions Implemented:**

- The biggest challenge was **migrating data into Sanity CMS**. Initially, errors occurred due to incorrect configurations in the provided migration files.
- After spending 1.5 days debugging, I realized the mistakes were within the migration files themselves. This caused unexpected failures when importing data.
- To resolve this, I explored alternative migration methods and manually corrected the errors in the provided files. Once fixed, the migration process worked smoothly.

#### **Best Practices Followed:**

• **Component Reusability:** Used modular components like ProductCard and ProductList to keep the codebase organized.

- **Optimized API Calls:** Ensured efficient data fetching to reduce unnecessary API requests.
- **Clean Folder Structure:** Maintained a well-structured project layout for easy navigation and scalability.
- **Error Handling:** Added proper error handling in API requests to ensure smooth user experience.