MUHAMMAD RAMZAN (00367450)

Day 5 Implementation Report

I add product categories in my project first of all i did create a schema of category and give a reference of category in my product schema

```
🗙 File Edit Selection View Go Run …

    page.tsx ...\[[...tool]] 
    ■ TS queries.ts M
                                        page.tsx ...\Shop M
                                                                Product.tsx M

∨ COMPLETE-HACKATHON-STOCK

                                         src > sanity > schemaTypes > TS Category.ts > ...
                                          1 import { Rule } from 'sanity';
                                               export const category = {

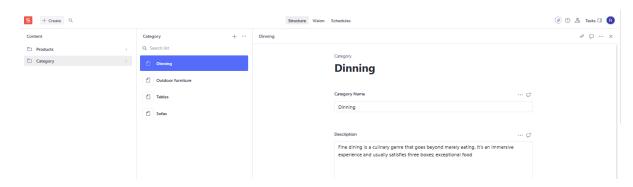
√ app

                                                  name: 'category',
         ∨ studio \ [[...tool]]
                                                   title: 'Category',
         * favicon.ico
                                                    type: 'document',
          # globals.css
                                                    fields: [
         layout.tsx
                                                         name: 'title',
         page.tsx
品
                                                        title: 'Category Name',
                                                         type: 'string',
                                                         validation: (Rule:Rule) => Rule.required().min(3).max(50),
          TS client.ts
          TS image.ts
                                                       name: 'description',
          TS live.ts
                                                        title: 'Description',
          TS queries.ts
                                  М
                                                        type: 'text',

✓ schemaTypes

                                                         validation: (Rule:Rule) => Rule.max(200),
          TS product.ts
         TS structure.ts
        $ .env.local
       eslintrc.json
```

And this is my sanity schema



I add this category functionality on my shop page there my products will show by its category and it will dynamically show on my

Mainproduct page

This is my shop page code for the implementation of category

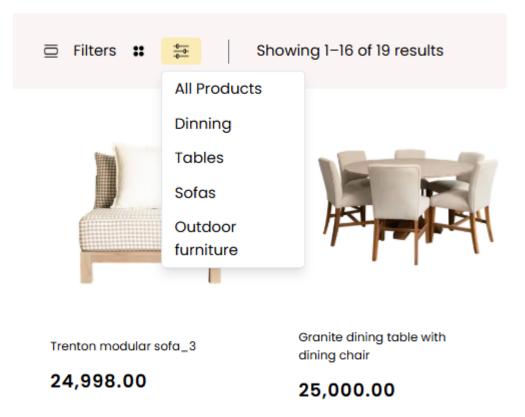
```
// Fetch categories
useEffect(() => {
    const fetchCategories = async () => {
        try {
            const fetchedCategories = await getCategories();
            setCategories(fetchedCategories);
        } catch (error) {
            console.error("Error fetching categories:", error);
        };
        fetchCategories();
    }, []);

// Fetch products by category
const handleCategoryClick = async (categoryTitle: string) => {
        if (categoryTitle === "All Products") {
            setProducts(allProducts); // Show all products
            setCategoryProducts({});
            setCategoryProducts({});
            setCurrentPage(1); // Reset to page 1
            return;
        }

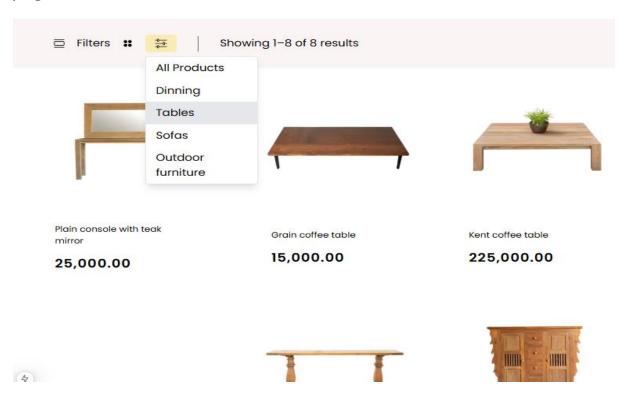
        // Check if products for this category are already fetched
        if (categoryProducts[categoryTitle]) {
            setProducts(categoryProducts[categoryTitle]); // Use already fetched products
            return;
        }
    }
}
```

```
{isDropdownOpen && (
 <div className="absolute ■bg-white border rounded-md shadow-lg mt-2 w-48">
     onClick={() => {
      setProducts(allProducts); // Show all products when "All Products" is clicked
       setCategoryProducts({});
       setIsDropdownOpen(false); // Close dropdown
       setCurrentPage(1); // Reset to page 1
     className="w-full text-left px-4 py-2 ■hover:bg-gray-200"
    All Products
   {categories.map((category) => (
      key={category._id}
       onClick={() => {
        handleCategoryClick(category.title);
         setIsDropdownOpen(false); // Close dropdown after selection
         setCurrentPage(1); // Reset to page 1
       className="w-full text-left px-4 py-2 ■hover:bg-gray-200"
       {category.title}
```

And this is my uiux design there i implement this drop down category functionality



If i will select tables category then only tables will show on my shop page



And i add filters functionality, pagination and all functionalities that are required for a shop page

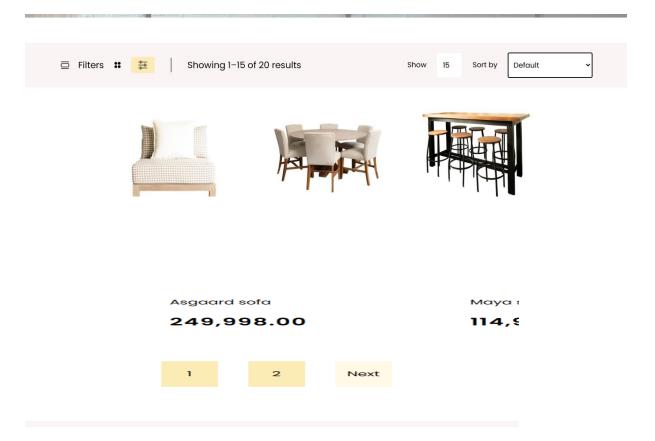
```
TS client.ts M
                                                                                                TS gueries.ts M
                                                                                                                          🥸 page.tsx ...\Shop M 🗙 💖 Header.tsx M
                                                                                                                                                                                        page.tsx ...\[id] M
∨ COMPLETE-HACKATHON-STOCK
                                                          const Shop = () => {
   ✓ app
✓ Products
                                                             const sortedProducts = useMemo(() => {
                                                              const sorted = [...products]; // Create a copy of products array
if (sortOption === "Price (Low to High)") {
    > Singleproduct
                                                              | sorted.sort((a, b) => a.price - b.price);
| } else if (sortOption === "Price (High to Low)") {

✓ studio \ [[...tool]]

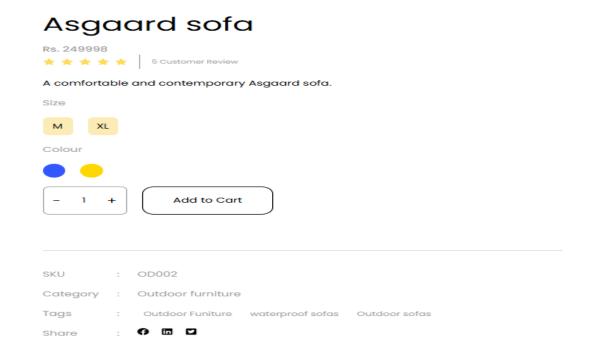
                                                             | sorted.sort((a, b) => b.price (High to Low)") {
| sorted.sort((a, b) => b.price - a.price);
| else if (sortOption === "Title") {
| sorted.sort((a, b) => a.title.localeCompare(b.title));
| }
    # globals.css
    layout.tsx
    page.tsx
                                                                return sorted;

✓ sanity

    ∨ lib
      TS client.ts
                                                             const currentProducts = useMemo(() => {
      TS image.ts
                                                              const indexOfLastProduct = currentPage * itemsPerPage;
const indexOfLastProduct = indexOfLastProduct - itemsPerPage;
      TS live.ts
     TS queries.ts
      TS index.ts
                                                             const displayedProductsCount = useMemo(() => {
    const totalDisplayed = Math.min(currentPage * itemsPerPage, products.length);
      TS product.ts
                                                              }, [currentPage, itemsPerPage, products.length]);
                                                             const startIndex = useMemo(() => {
   return (currentPage - 1) * itemsPerPage + 1;
}, [currentPage, itemsPerPage]);
eslintrc.json
  gitignore
```



and after complete all these shop functionalities i implement dynamic functionality on my single product page for colours, size, SKU, tags etc



This is my schema for colours, size, tags etc

And this is my single product page code there i implement this

Category Schema and Linking:

 Created a category schema in Sanity and linked it to the product schema to categorize products (e.g., "Tables" for dining tables, "Sofas" for sofas).

Category Filtering:

- Implemented a category filter on the shop page, allowing users to view products based on the selected category (e.g., only displaying tables when the "Tables" category is selected).
- Added a dropdown UI component to enable users to filter products dynamically by category.

Dynamic Attributes for Products:

- Developed dynamic functionality on the single product page to handle various product attributes like:
 - Colors: Users can select from available colors.
 - Sizes: Size options are displayed and selectable.
 - SKU (Stock Keeping Unit): SKU details for each product.
 - Tags: Tags representing different product features or categories (e.g., "Feature products," "Discount").

Schema for Product Attributes:

- Created individual schemas for product attributes such as color, size, tags, etc., in Sanity.
- Linked these attributes to the product schema to dynamically display them on the product detail page.

Pagination and Additional Functionalities:

 Implemented pagination on the shop page to manage large product lists effectively.

the color, size, and tag selections on the single product page.	