DAY_04 BUILDING DYNAMIC FRONTEND COMPONENTS

MARKETPLACE_BUILDER_HACKATHON_AVION_(E-COMMERCE)

1. **INTRODUCTION:**
   Today's task includes creating Dynamic front Components for our Marketplace. Major target was to fetch data dynamically from Sanity CMS to the components like (Product-listing, Product details & cards) etc.

2. **Key Components:**
   - Product Listing
   - Product details using Dynamic routing
   - Shopping Cart
   - Search bar
   - Wish list etc.

   Note: My work is continued the components as I'm encountering some errors and tough code. Well, currently I have started Day 5 as well but, will update the document and Repo as the works finishes successfully.

3. **Some Sample Images of the recent work:**

Product listing:

The Poplar suede sofa
£980
Quantity: 50

Tropical Vibe
£550
Quantity: 50

Sleek Living
£300
Quantity: 50

Serene Seat
£350
Quantity: 50

Nordic Elegance
£280
Quantity: 50

TimberCraft
£320
Quantity: 50

Timeless Elegance
£320
Quantity: 50

Modern Serenity
£480
Quantity: 50

Product Details (Dynamic Routing):

http://localhost:3000/product-listings/product-11

Avion

Plant pots   Ceramics   Tables   Chairs   Crockery   Tableware   Cutlery

Sleek Living

$300

A timeless design, with premium materials features as one of our most popular and iconic pieces. The dandy chair is perfect for any stylish living space with beech legs and lambskin leather upholstery.

Features:

Premium materialHandmade upholsteryQuality timeless classic

Stock:

50

Dimensions:

Width: 75cm cm, Height: 110cm cm, Depth: 50cm cm

Tags

Add to Cart

http://localhost:3000/product-listings/product-16

Avion

Plant pots   Ceramics   Tables   Chairs   Crockery   Tableware   Cutlery

Modern Serenity

$480

A timeless design, with premium materials features as one of our most popular and iconic pieces. The dandy chair is perfect for any stylish living space with beech legs and lambskin leather upholstery.

Features:

Premium materialHandmade upholsteryQuality timeless classic

Stock:

50

Dimensions:

Width: 75cm cm, Height: 110cm cm, Depth: 50cm cm

Tags

Add to Cart
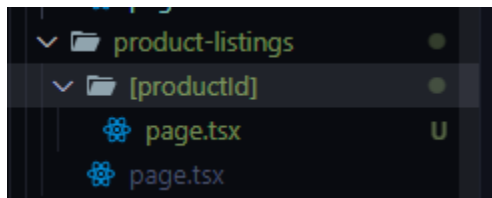
Code Snippets (Listing):

```tsx
const ProductListings = () => {
  const [products, setProducts] = useState<Product[]>([]);
  const [loading, setLoading] = useState<boolean>(true);

  useEffect(() => {
    const fetchProducts = async () => {
      try {
        const fetchedProducts: Product[] = await client.fetch(
          `
          *[_type == "product"] {
            _id,
            name,
            description,
            quantity,
            price,
            dimensions,
            "image_url": image.asset->url,
          }
          `
        );
        setProducts(fetchedProducts);
        setLoading(false);
      } catch (error) {
        console.error('Error fetching products:', error);
        setLoading(false);
      }
    };
```

```tsx
      {/* Product Grid */}
      <div className="grid grid-cols-2 sm:grid-cols-2 md:grid-cols-3 lg:grid-cols-4 gap-6 py-6">
        {products.map((product) => (
          <Link href={`/product-listings/${product._id}`} key={product._id}>
            <div className="flex flex-col items-start p-4 bg-white shadow-sm hover:shadow-md hover:scale-105 transition-transform duration-300 rounded-m
              <div className="relative w-full h-64">
                <Image
                  src={product.image_url}
                  alt={product.name}
                  layout="fill"
                  objectFit="cover"
                  className="rounded"
                />
              </div>
              <h3 className="text-lg font-semibold mb-2">{product.name}</h3>
              <p className="text-gray-800 text-xl mb-2">£{product.price}</p>
              <p className="text-sm text-gray-500">Quantity: {product.quantity || 'N/A'}</p>
            </div>
          </Link>
        ))}
      </div>
    </section>
  );
};

export default ProductListings;
```

Code Snippets (Dynamic Routing):

```
product-listings
  [productId]
    page.tsx          U
  page.tsx
```
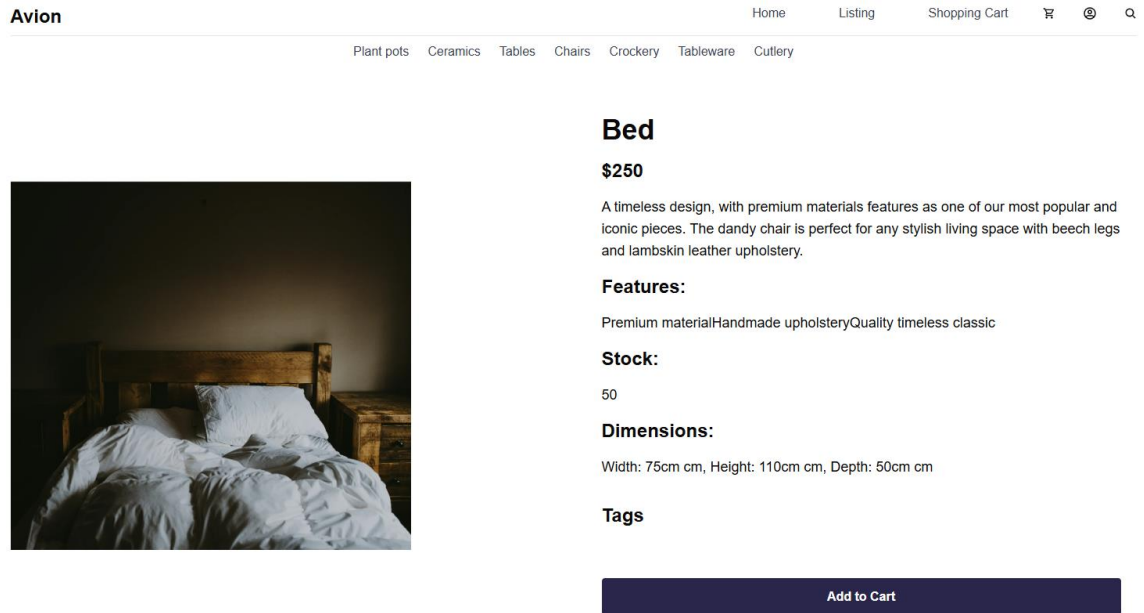
```tsx
return (
  <main>
    <section className='max-w-[1440px] grid grid-cols-1 lg:grid-cols-2 mt-2 lg:mt-10 gap-8 mx-auto justify-center items-center'>
      {/* Image Section */}
      <div className='w-full lg:w-auto lg:max-w-lg'>
        <Image
          src={product.image_url}
          alt={product.name}
          layout='responsive'
          width={500}
          height={600}
          className='object-contain mb-5 lg:mb-10'
        />
      </div>
      {/* Product Details Section */}
      <div className='flex flex-col gap-4 mb-5 lg:mb-10 lg:px-5'>
        <h1 className='text-4xl font-bold'>{product.name}</h1>
        <p className='text-2xl font-semibold'>${product.price}</p>
        <p className='text-lg'>{product.description}</p>
        <p className='text-2xl font-semibold'>Features:</p>
        <p className='text-lg'>{product.features}</p>
        <p className='text-2xl font-semibold'>Stock:</p>
        <p className='text-lg'>{product.quantity}</p>
        <p className='text-2xl font-semibold'>Dimensions:</p>
        <p className='text-lg'> {`Width: ${width} cm, Height: ${height} cm, Depth: ${depth} cm`}</p>
        <h2 className='text-2xl font-bold mt-4'>Tags</h2>
        <p className='text-lg'>{product.tags}</p>
        {/* Button */}
        <button className="mt-8 px-4 py-2 sm:px-6 sm:py-3 bg-customColors-dark-primary text-white font-bold hover:bg-customColors-border-dark hover:text-black transition-color
          <Link href="">Add to Cart</Link>
        </button>
      </div>
    </section>
  </main>
);
};
```

```tsx
src > app > product-listings > page.tsx > [@] default
1  import ProductListings from '@/components/ProductListings'
2  import React from 'react'
3
4  function page() {
5    return (
6      <div>
7        <ProductListings/>
8      </div>
9    )
10  }
11
12  export default page
```

Dynamic Routes Tested:

http://localhost:3000/product-listings/product-4

Note:

These are working perfectly so far, however I'm facing some Errors in the other Components so I'm debugging and figuring out the Problem.

Once done, will update and post all the Components and the document on LinkedIn and GitHub.

Hoping for the best and ease in the work **Insha'Allah!**