# Day 4 - Dynamic Frontend Components - [Meubel House]

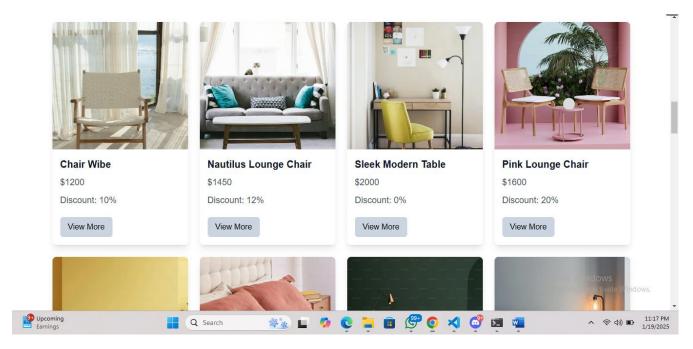
Date: 19-01-2025

# **Accomplishments for "Day 4":**

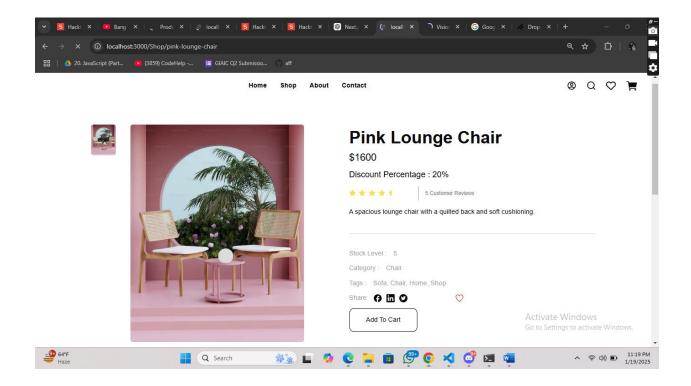
- 1. Product Display Enhancements:
- 2. Sanity CMS Integration:
- 3. **Dynamic Routing**
- 4. Filter Functionality Implementation:
- 5. Top Picks funcitionality

## **Functional Deliverables:**

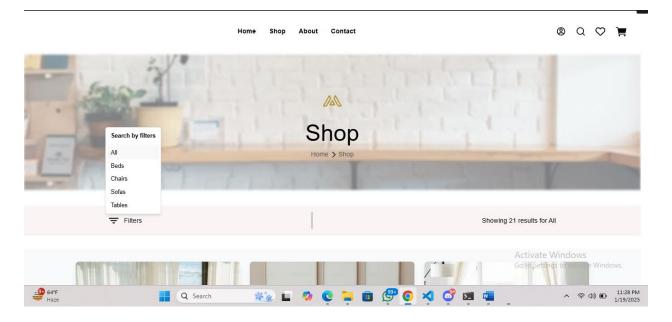
- Screenshots showcasing:
  - 1. The product listing page with dynamic data.



2. Individual product detail pages with accurate routing and data rendering.



3. Working category filters.



## ♣ Code Deliverables:

1. Code snippets for key components.

# For dynamic data

# For filter code snippet:

```
{/* Showing Results */}
cp className="text-sm md:text-base font-[400] text-black">
Showing (products.length) results for {filter}
```

#### **♣** Documentation:

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

Set up Sanity CMS as the backend for product data.

Fetched product data dynamically using API calls in Next.js.

Created reusable components for ProductCard, ProductList, and Filter.

Integrated category filters for seamless user interactions.

### Challenges Faced and Solutions Implemented:

**Challenge:** Debugging the filter functionality to dynamically update the product list.

 Solution: Refactored the filter logic to handle category-based updates efficiently.

**Challenge:** Managing Add to cart functionality.

 Solution: Used Redux Toolkit for managing add to cart functionality.

Challenge: Ensuring responsive design across various devices.

Solution: Leveraged Tailwind CSS for consistent and adaptive layouts.

#### Best Practices Followed:

Kept components reusable and modular for easier maintenance.

Followed Next.js conventions for dynamic routing and API integration.

Ensured responsive design and accessibility for all components.