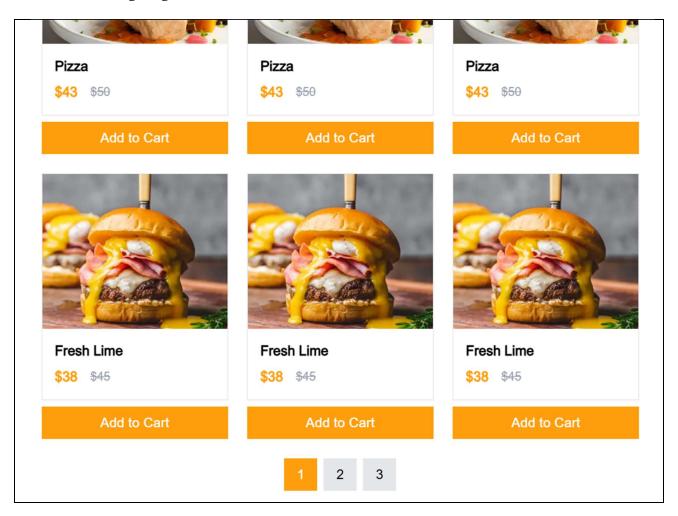
# **Day 4 Submission Document**

**Title:** Day 4 - Dynamic Frontend Components - [Q-Commerce MarketPlace]

### 1. Functional Deliverables

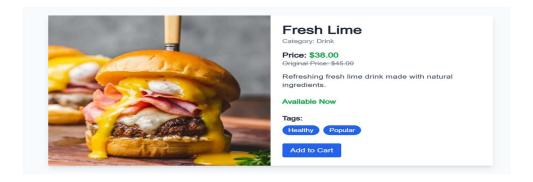
Attach screenshots/screen recordings of your components. Replace [SCREENSHOT] with your images.

## **Product Listing Page**



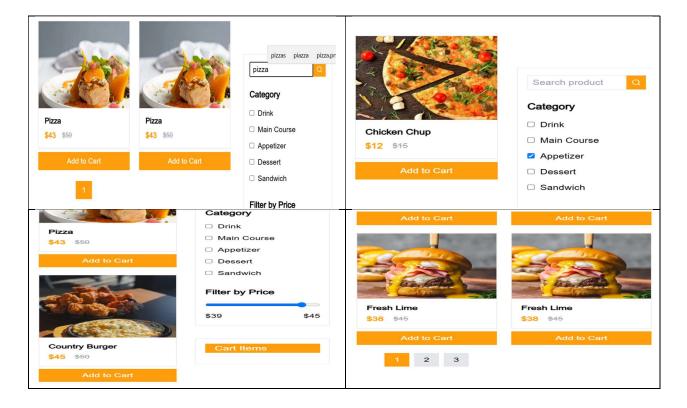
- Fetches product data from Sanity CMS/API.
- Displays products in a responsive grid layout.
- Includes product name, price, image, and stock status.

# **Product Detail Page**



- Uses Next.js dynamic routing (/product/[slug]).
- Shows detailed product information (description, price, sizes/colors).

#### **Search & Filters**



- Search functionality filters products by name/tags.
- Category checkboxes and price range slider for filtering.
- Pagination

### **Cart Component**

#### **Shopping Cart** Product Price Quantity X \$38.00 - 2 + \$76.00 Chocolate Muffin \$28.00 - 1 + \$28.00 Country Burger X \$45.00 - 1 + \$45.00 Chicken Chup X \$12.00 - 1 + \$12.00 X - 1 + \$21.00 \$21.00 Total: \$182.00

Proceed to Checkout

Clear Cart

- Displays added items, quantities, and total price.
- Uses React state/context for cart management.

#### 2. Code Deliverables

Include code snippets for critical components.

## **ProductCard Component**

#### **SearchBar Component**

```
const handleSearch = (e: React.ChangeEvent<HTMLInputElement>) => {
    setSearchTerm(e.target.value);
};

const handleCategoryChange = (category: string) => {
    setSelectedCategory(category === selectedCategory ? '' : category);
};

const handleSortChange = (e: React.ChangeEvent<HTMLSelectElement>) => {
    setSortOrder(e.target.value);
};

const addToCartBlock = (product: Product) => {
    // Use the functional form of setCart to ensure correct state updates
    setCart((prevCart) => {
        const updatedCart = [...prevCart, product];
        console.log('Cart Updated:', updatedCart); // Log the updated cart for debugging
        return updatedCart;
});
};
```

#### 3. Documentation

### **Implementation Steps**

- 1. Sanity CMS Integration:
  - Used GROQ queries to fetch product and category data.
  - Created schemas for products in Sanity Studio.
- 2. **Dynamic Routing**:
  - o Implemented use Params for product pages.
- 3. State Management:
  - Utilized React Context API for cart functionality.

### **Challenges & Solutions**

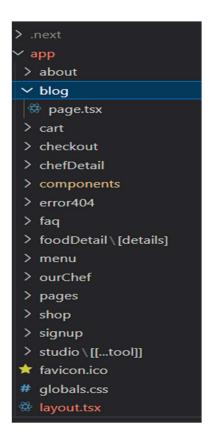
- Challenge: Slow API responses.
  - **Solution**: Added loading skeletons and pagination.
- Challenge: Cart state persistence.
  - **Solution**: Integrated localStorage to save cart items.

# 4. Repository Submission

#### GitHub Link:

https://github.com/Muhammadasif1986/UIUX-hackathon---Nextjs-Design-Jam/tree/main/Documents

#### • Folder Structure:



### 5. Checklist

- All components are functional.
- Responsive design tested on mobile/desktop.
- Code follows modular architecture.
- Documentation submitted in PDF format.