

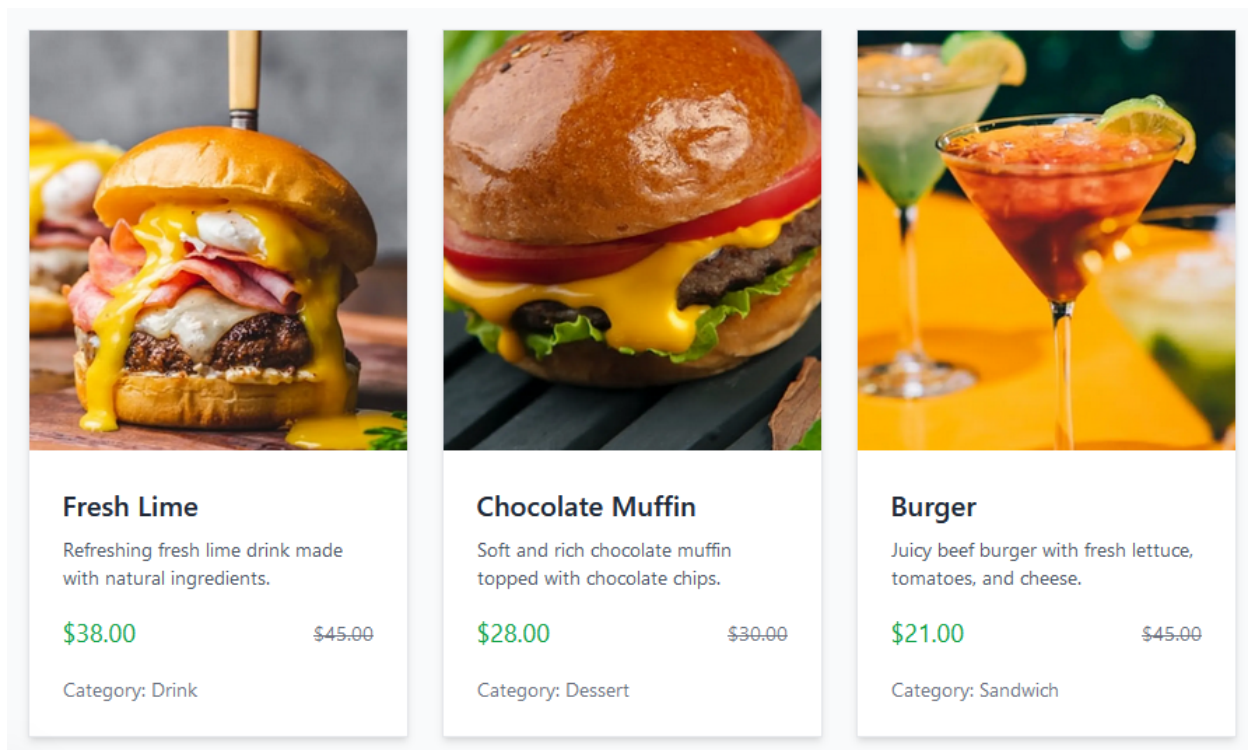
DAY 4 - BUILDING DYNAMIC FRONTEND COMPONENTS FOR OUR MARKETPLACE

1. Product Listing Component:

- Render product data dynamically in a grid layout.
- PREPARED BY AMEEN ALAM 4

DAY 4 - BUILDING DYNAMIC FRONTEND COMPONENTS FOR YOUR MARKETPLACE

- o Product Name
- o Price
- o Image
- o Stock Status



2. Product Detail Component:

- Create individual product detail pages using dynamic routing in Next.js.



- Include detailed fields such as:

- o Product Description

- o Price

Shop details

[Home](#) / [shop detail](#)



Chocolate Muffin

Soft and rich chocolate muffin topped with chocolate chips.

Price: \$28.00

- 1 +

Add to Cart

```

(property) HTMLAttributes<T>.className?: string | undefined
<div className="container mx-auto p-4 flex flex-col lg:flex-row items-start gap-8">
  /* Left Section: Thumbnail Images */
  <div className="flex flex-col gap-4">
    {[product.imageUrl, product.imageUrl, product.imageUrl, product.imageUrl].map((thumb, index) => (
      <Image
        key={index}
        src={thumb}
        alt={` ${product.name} thumbnail ${index + 1}`}
        width={80}
        height={80}
        className="rounded shadow cursor-pointer border border-gray-200 hover:border-black"
      />
    ))}
  </div>

  /* Center Section: Large Image */
  <div className="flex-1">
    <Image
      src={product.imageUrl}
      alt={product.name}
      width={500}
      height={500}
      className="rounded-lg shadow"
    />
  </div>

  /* Right Section: Product Details */
  <div className="flex-1 space-y-4">
    <h1 className="text-2xl font-bold text-gray-800">{product.name}</h1>
    <p className="text-gray-600">{product.description}</p>
    <p className="text-green-600 text-xl font-semibold">
      Price: ${product.price.toFixed(2)}
    </p>
  </div>
</div>

```

4. Search Bar:

- Implement search functionality to filter products by name or tags.

Search by name or tags...



Fresh Lime

Refreshing fresh lime drink made with natural ingredients.



Chocolate Muffin

Soft and rich chocolate muffin topped with chocolate chips.



Burger

Juicy beef burger with fresh lettuce, tomatoes, and cheese.

pi



Pizza

Delicious vegetarian pizza topped with fresh vegetables and cheese.

```

src > app > Components > searchContext.tsx > ...
1  "use client"
2
3  // context/SearchContext.tsx
4  import { createContext, useContext, useState, ReactNode } from 'react';
5
6  type SearchContextType = {
7    searchQuery: string;
8    setSearchQuery: (query: string) => void;
9  };
10
11  const SearchContext = createContext<SearchContextType | undefined>(undefined);
12
13  export const SearchProvider = ({ children }: { children: ReactNode }) => {
14    const [searchQuery, setSearchQuery] = useState('');
15
16    return (
17      <SearchContext.Provider value={{ searchQuery, setSearchQuery }}>
18        {children}
19      </SearchContext.Provider>
20    );
21  };
22
23  export const useSearch = () => {
24    const context = useContext(SearchContext);
25    if (!context) {
26      throw new Error('useSearch must be used within a SearchProvider');
27    }
28    return context;
29  };
30

```

5. Cart Component:

- Display added items, quantity, and total price.
- Use state management for tracking cart items.



Chocolate Muffin

Soft and rich chocolate muffin topped with chocolate chips.

Price: \$28.00

- 3 +

Add to Cart



Chocolate Muffin

Soft and rich chocolate muffin topped w

Price: \$28.00

- 3 +

Add to Cart

Item added to cart successfully!

```
src > app > Components > CartContext.tsx > CartItem

24
25 const CartContext = createContext<CartContextType | undefined>(undefined);
26
27 export const CartProvider = ({ children }: { children: ReactNode }) => {
28   const [cart, setCart] = useState<CartItem[]>([]);
29
30   // Add item to the cart
31   const addToCart = (item: CartItem) => {
32     setCart((prevCart) => {
33       const existingItem = prevCart.find((cartItem) => cartItem.id === item.id);
34       if (existingItem) {
35         return prevCart.map((cartItem) =>
36           cartItem.id === item.id
37             ? { ...cartItem, quantity: cartItem.quantity + item.quantity }
38             : cartItem
39         );
40       }
41       return [...prevCart, item];
42     });
43   };
44
45   // Remove item from the cart
46   const removeItem = (id: string) => {
47     setCart((prevCart) => {
48       const updatedCart = prevCart.filter((item) => item.id !== id);
49       if (updatedCart.length === prevCart.length) {
50         console.warn(`Item with ID ${id} not found in cart.`);
51       }
52       return updatedCart;
53     });
54   };
55 }
```



Chocolate Muffin

Price: \$28

-

22

+

Total: \$616.00

Remove

Grand Total: \$616.00

Checkout

Coupon Code

Use coupon code **DISCOUNT10** for a \$10 discount on your order.

Enter Coupon Code

Apply

Total Bill

Cart Subtotal:	\$616.00
Shipping Charge:	\$10.00
Total Amount:	\$626.00

Proceed to Checkout 



