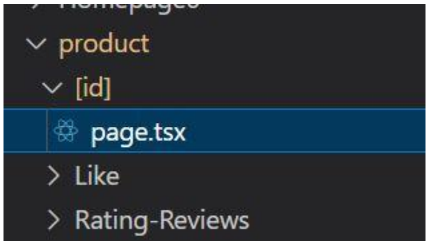
DAY 4 ➡ BUILDING DYNAMIC FRONTEND COMPONENTS FOR YOUR MARKETPLACE

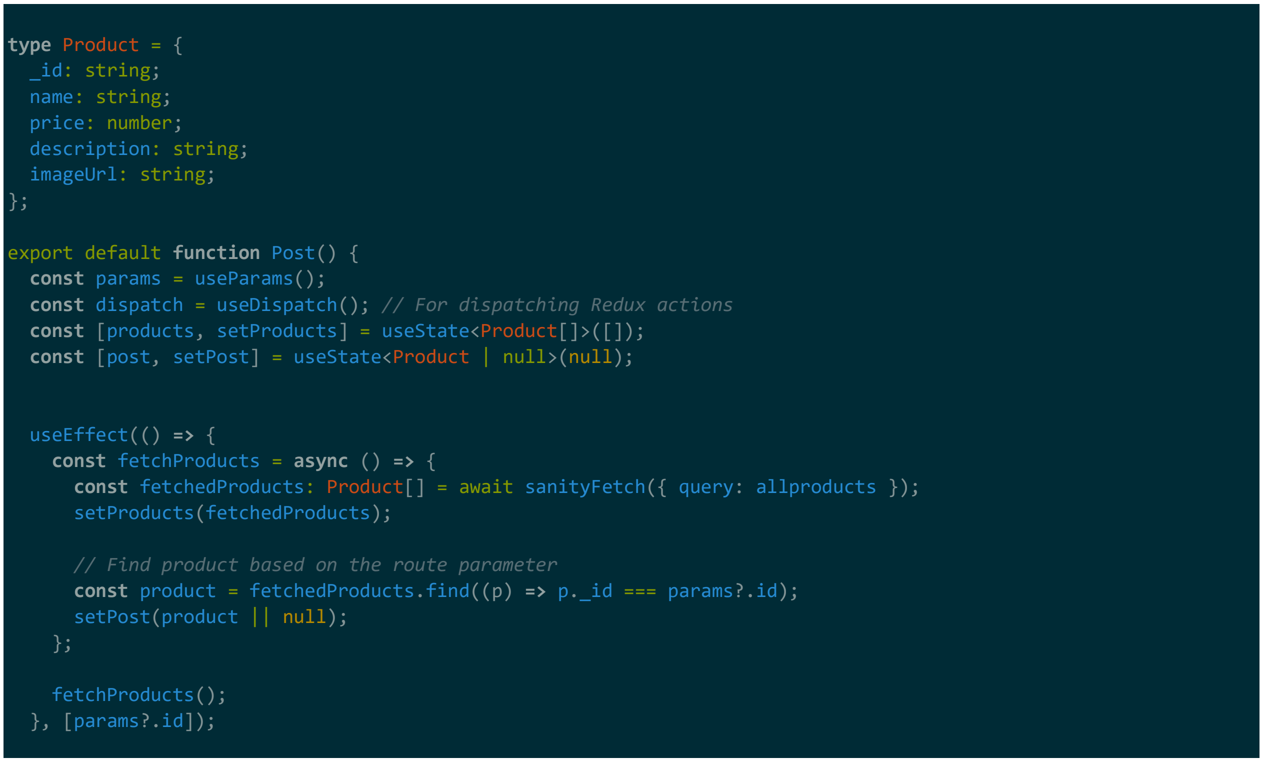
STEP 1(DYNAMIC ROUTE):

What is Dynamic Routing in Next-js ?

In Next.js, dynamic routing allows creating routes with dynamic segments (e.g., `[id].js`) that adapt to different URL parameters at runtime.

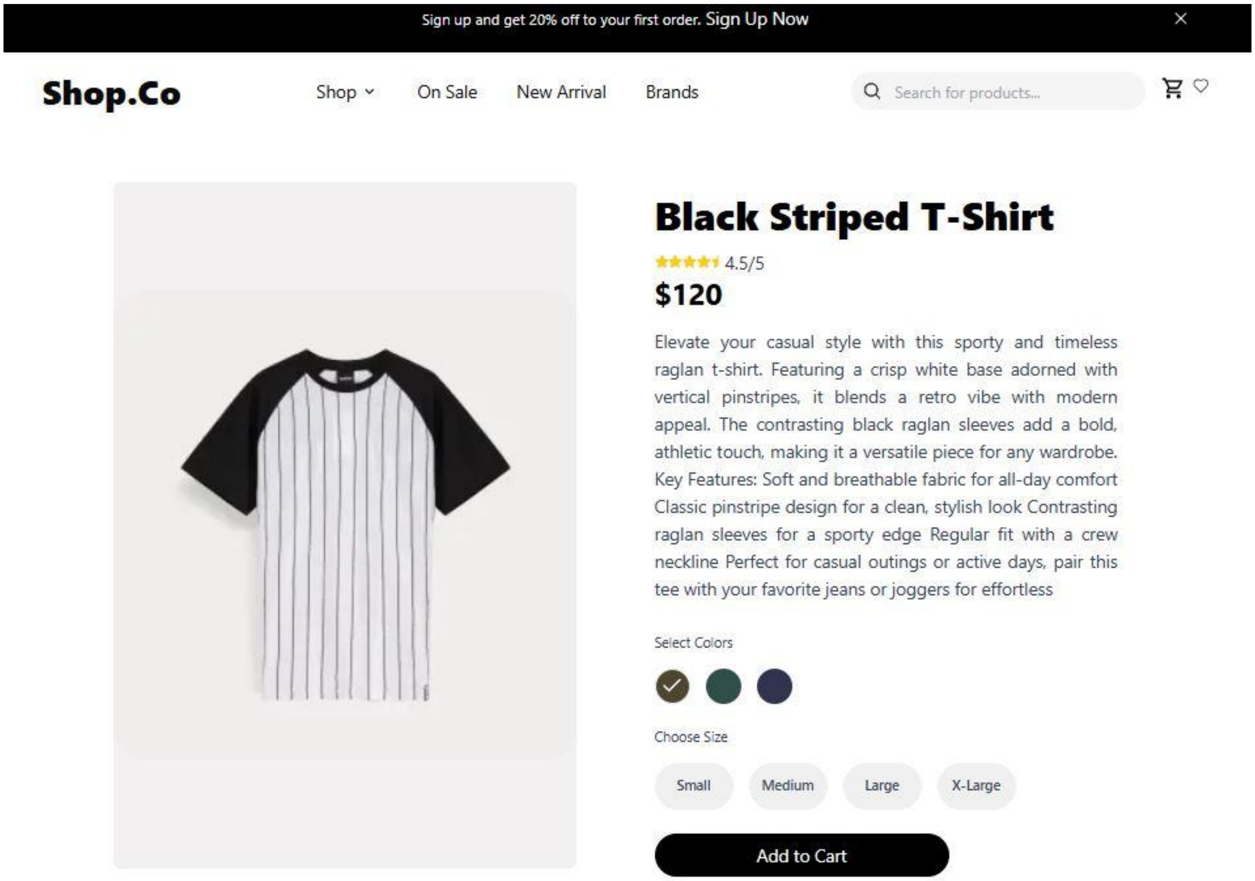
★ Build dynamic frontend components to display data from Sanity CMS or APIs.★★★★





```
type Product = {
  _id: string;
  name: string;
  price: number;
  description: string;
  imageUrl: string;
};

export default function Post() {
  const params = useParams();
  const dispatch = useDispatch(); // For dispatching Redux actions
  const [products, setProducts] = useState<Product[]>([]);
  const [post, setPost] = useState<Product | null>(null);


  useEffect(() => {
    const fetchProducts = async () => {
      const fetchedProducts: Product[] = await sanityFetch({ query: allproducts });
      setProducts(fetchedProducts);

      // Find product based on the route parameter
      const product = fetchedProducts.find((p) => p._id === params?.id);
      setPost(product || null);
    };

    fetchProducts();
  }, [params?.id]);
```

RESULT IN FRONTEND ADD DYNAMIC ROUTES



Sign up and get 20% off to your first order. Sign Up Now ×

Shop.Co

Shop ⌄ On Sale New Arrival Brands

Search for products...

Black Striped T-Shirt

★★★★★ 4.5/5

$120

Elevate your casual style with this sporty and timeless raglan t-shirt. Featuring a crisp white base adorned with vertical pinstripes, it blends a retro vibe with modern appeal. The contrasting black raglan sleeves add a bold, athletic touch, making it a versatile piece for any wardrobe. Key Features: Soft and breathable fabric for all-day comfort Classic pinstripe design for a clean, stylish look Contrasting raglan sleeves for a sporty edge Regular fit with a crew neckline Perfect for casual outings or active days, pair this tee with your favorite jeans or joggers for effortless

Select Colors

✓ ● ●

Choose Size

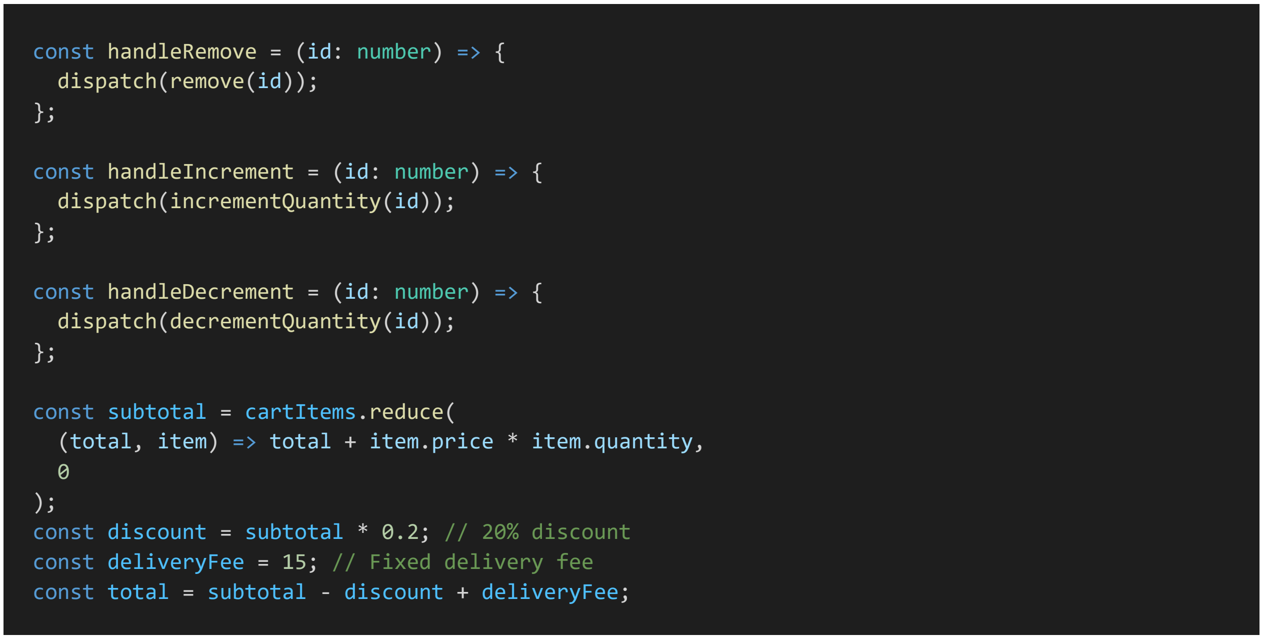
Small Medium Large X-Large

Add to Cart

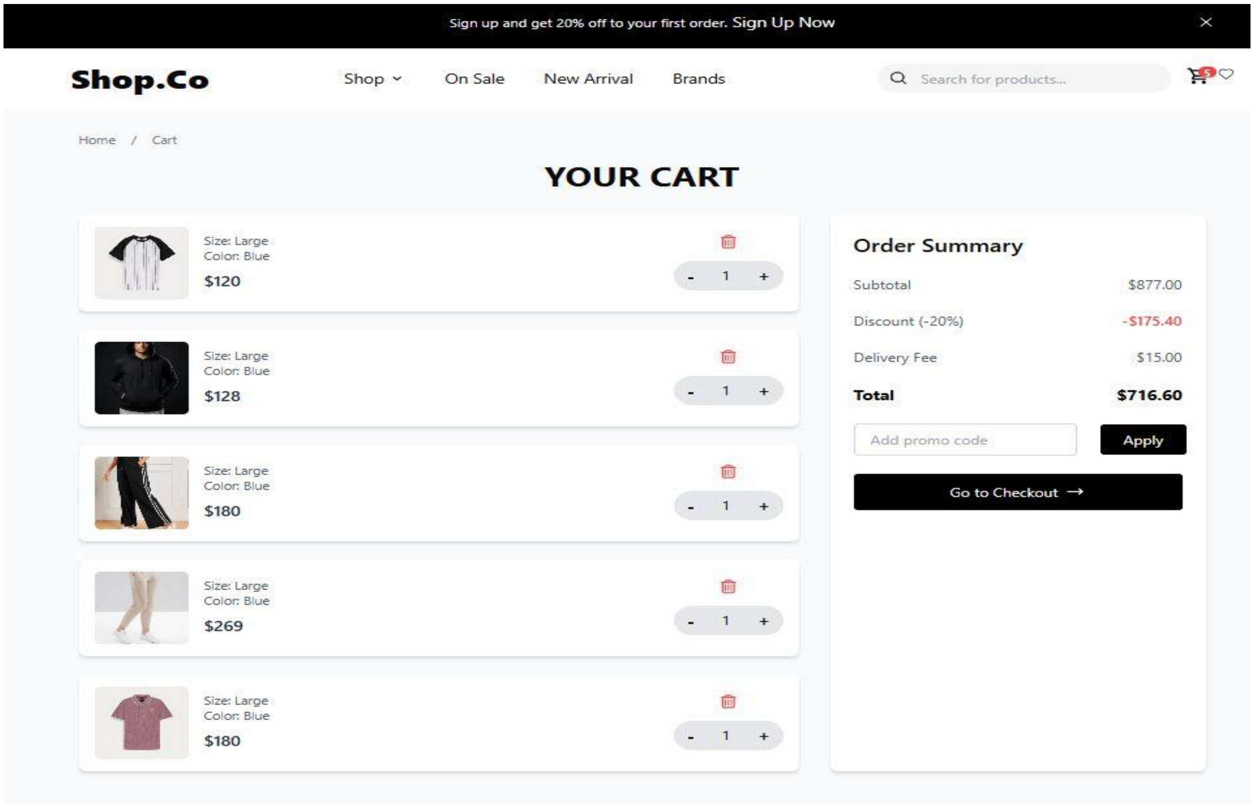
STEP 2(ADD TO CART FUNCTUNALITY):

In Next.js, the **Add to Cart** functionality involves managing a cart state (locally or globally) to store product details like `id`, `price`, and `quantity`. It updates the cart dynamically when users add, remove, or modify items, with optional persistence using `localStorage` or a backend.

```
interface CartItem {
  id: number;
  title: string;
  price: number;
  imageUrl: string;
  quantity: number;
}
const Cartpage: React.FC = () => {
  const dispatch = useDispatch();
  const cartItems = useSelector((state: RootState) => state.cart);
```



```
const handleRemove = (id: number) => {
  dispatch(remove(id));
};

const handleIncrement = (id: number) => {
  dispatch(incrementQuantity(id));
};

const handleDecrement = (id: number) => {
  dispatch(decrementQuantity(id));
};

const subtotal = cartItems.reduce(
  (total, item) => total + item.price * item.quantity,
  0
);
const discount = subtotal * 0.2; // 20% discount
const deliveryFee = 15; // Fixed delivery fee
const total = subtotal - discount + deliveryFee;
```



Sign up and get 20% off to your first order. Sign Up Now

YOUR CART

Size: Large
Color: Blue
$120
- 1 +

Size: Large
Color: Blue
$128
- 1 +

Size: Large
Color: Blue
$180
- 1 +

Size: Large
Color: Blue
$269
- 1 +

Size: Large
Color: Blue
$180
- 1 +

Order Summary

Subtotal	$877.00
Discount (-20%)	-$175.40
Delivery Fee	$15.00
Total	**$716.60**

Add promo code

□ Day 4 Checklist

□ *Self-Validation Checklist*

- **Frontend Component Development**:
  ✔ *Completed*
- **Styling and Responsiveness:**
  ✔ *Completed*
- **Code Quality:**
  ✔ *Completed*
- **Documentation and Submission:**
  ✔ *Completed*
- **Final Review:**
  ✔ *Completed*

Author: *Mahab Muhammad Rizwan*
Slot: *Saturday-2:00-5:00*
Teachers: *Sir Muhammad Bilal , Sir Ali Aftab Shaikh*