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# DAY 4 - DYNAMIC FRONTEND COMPONENTS

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Name of the Marketplace : <u>www.clothsite.com</u> (not confirmed)

## **Objective:**

On Day 4, we will concentrate on designing and creating dynamic frontend components to showcase marketplace data retrieved from Sanity CMS or APIs. This step highlights the importance of modular and reusable component design, as well as real-world techniques for developing scalable and responsive web applications.

## **Key Learning Outcomes:**

- 1. Build dynamic frontend components to display data from Sanity CMS or APIs.
- Implement reusable and modular components.
- 3. Understand and apply state management techniques.
- 4. Learn the importance of responsive design and UX/UI best practices.
- 5. Prepare for real-world client projects by replicating professional workflows.

## **Overview of System Functions:**

The project integrates the following key functionalities:

- 1. Product Listing Page
- 2. Individual Product Detail Page
- 3. Cart Page
- 4. Search Bar

- 5. Checkout Page
- 6. Header
- 7. Footer
- 8. Wishlist Component
- 9. Filter Panel Component
- 10. Related Products Component
- 11. Pagination Component
- 12. User Profile Component
- 13. Reviews and Ratings Component
- 14. Notifications Component
- 15. Analytics Dashboard Component
- 16. Product Comparison Component
- 17. Multi-Language Support Component
- 18. Order Tracking Component
- 19. FAQ and Help Center Component
- 20. Subscription Management Component
- 21. Admin Dashboard Component
- 22. Discount and Promotion Component
- 23. Social Media Sharing Component
- 24. Bulk Upload Component
- 25. Al Recommendations Component
- 26. Gift Card and Voucher Component
- 27. Customer Feedback Component
- 28. Advanced Search Component

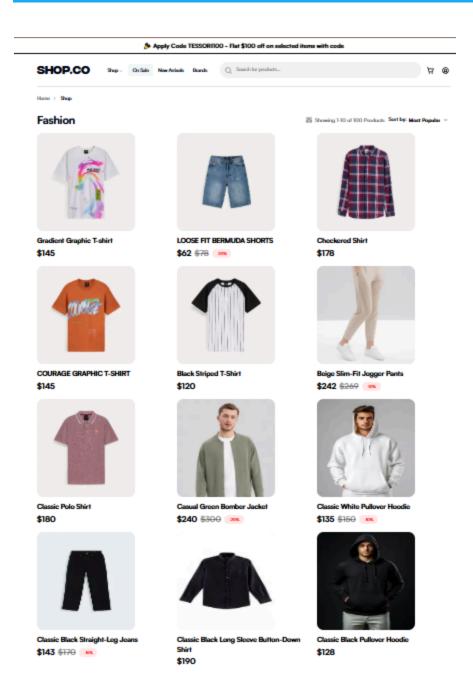
Each feature is integral to constructing a responsive and scalable marketplace platform.

## **Key Components to Build:**

## 1. Product Listing Component

```
const {    allProducts,    addToProducts } = useCart();
    const [isLoading, setIsLoading] = useState(true); // Track loading state
```

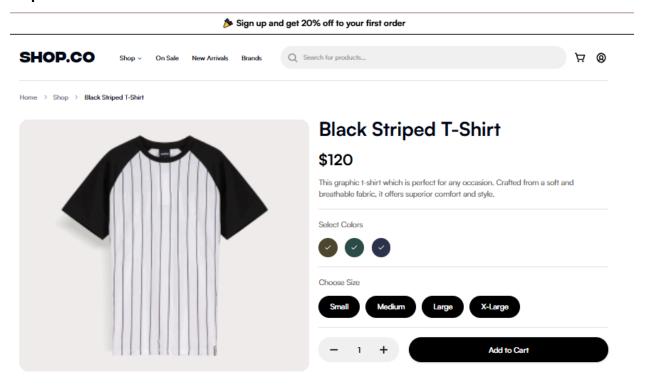
```
useEffect(() => {
  fetchProducts()
    .then((fetchedProducts) => {
      addToProducts(fetchedProducts);
      setIsLoading(false); // Data has been loaded
    .catch((error) => {
      setIsLoading(false); // Stop loading even if there's an error
    });
}, []);
const productData = allProducts.find(
  (product) => product. id === (params.slug[0])
  return <div>Loading...</div>; // Show a loading state
 notFound();
  <section className="max-w-frame mx-auto text-center">
      className={cn([
        integralCF.className,
      ])}
      {title}
        opts={{
          align: "start",
        className="w-full mb-6 md:mb-9"
        <CarouselContent className="mx-4 x1:mx-0 space-x-4</pre>
          {data.map((product) => (
              key={product. id}
              className="w-full max-w-[198px] sm:max-w-[295px] pl-0"
```



## 2. Individual Product Detail Component

```
const ProductCard = ({ data }: ProductCardProps) => {
  return (
     <Link
      href={`/shop/product/${data._id}/`}
      className="flex flex-col items-start aspect-auto"</pre>
```

```
<div className="bg-[#F0EEED] rounded-[13px] lg:rounded-[20px] w-full</pre>
lq:max-w-[295px] aspect-square mb-2.5 xl:mb-4 overflow-hidden">
          src={data.imageUrl}
          width={295}
          height={298}
          className="rounded-md w-full h-full object-fill hover:scale-10
          alt={data.imageUrl}
      <strong className="text-black x1:text-x1">{data.name}</strong>
      <div className="flex items-end mb-1 x1:mb-2">
      <div className="flex items-center space-x-[5px] x1:space-x-2.5">
        {data.discountPercent > 0 ? (
          <span className="font-bold text-black text-xl xl:text-2xl">
            { `$${Math.round(
              calculateDiscountedPrice(data.price, data.discountPercent)
        ) : calculateDiscountedPrice(data.price, data.discountPercent) > 0
          <span className="font-bold text-black text-xl xl:text-2xl">
            {`$${calculateDiscountedPrice(data.price,
data.discountPercent) } ` }
          <span className="font-bold text-black text-xl xl:text-2xl">
            ${data.price}
        {data.discountPercent > 0 && (
          <span className="font-bold text-black/40 line-through text-xl</pre>
           ${data.price}
        {data.discountPercent > 0 ? (
          <span className="font-medium text-[10px] xl:text-xs py-1.5</pre>
px-3.5 rounded-full bg-[#FF3333]/10 text-[#FF3333]">
            {`-${data.discountPercent}%`}
          data.discountPercent > 0 && (
            <span className="font-medium text-[10px] x1:text-xs py-1.5</pre>
px-3.5 rounded-full bg-[#FF3333]/10 text-[#FF3333]">
              { `-$${data.price} `}
```



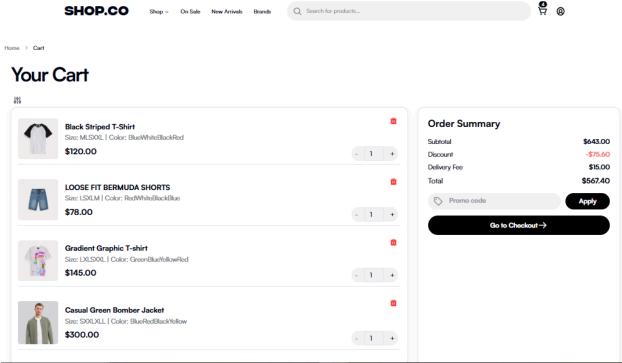
## 3. Cart Component

```
const currentDate = new Date();
            const expiryDate = new Date(promoMatching.expiry);
                setPromoError("Promo code has expired!");
            setPromoError("");
            return promoMatching.discount; // Return valid promo discount
        pricing.promoDiscount = promoCode ? validatePromoCode(promoCode) :
        const discountedTotal = cart.reduce((total, item) => {
            if (item.discountPercent > 0) {
                return total + calculateDiscountedPrice(item.price,
item.discountPercent) * item.quantity;
            return total;
        }, 0);
        const nonDiscountedTotal = cart.reduce((total, item) => {
            if (item.discountPercent === 0) {
                return total + item.price * item.quantity;
            return total;
        const subtotal = cart.reduce((total, item) => total + item.price *
item.quantity, 0);
        const amountOfDiscount = subtotal - total;
        setPricing({
            total: total,
            discountedAmount: discountedTotal,
            nonDiscountedAmount: nonDiscountedTotal,
            subtotal: subtotal,
            amountOfDiscount: amountOfDiscount,
           amountAfterDiscount: total,
        });
```

```
<h1 className="text-5xl mb-6 font-integralCF tracking-tighter</pre>
font-extrabold">Your Cart</h1>
                <FilterMenu />
                <div className="flex-1 bq-white rounded-2xl shadow-lq</pre>
border p-4 ">
                    {cart.map((item) => (
                        <div key={item. id} className="relative border-b-2</pre>
flex items-center gap-4 mb-6 px-0 py-3">
                                onClick={() => removeFromCart(item. id)}
                                className="absolute top-2 right-2
text-red-500 hover:text-red-700"
                                <Image src={DeleteIcon} alt="Delete"</pre>
width={20} height={20} />
                            <Image src={item.imageUrl} alt={item.name}</pre>
width={100} height={100} className="rounded-md" />
                            <div className="flex-1">
                                <h3 className="text-lg"
font-semibold">{item.name}</h3>
                                Size:
mt-2">${item.price.toFixed(2)}
                            <div className="absolute bg-[#F0F0F0]</pre>
rounded-full bottom-2 right-2 flex items-center gap-2">
                                    onClick={() =>
updateQuantity(item. id, item.quantity - 1)}
                                    className="px-2 py-1.5 bg-[#F0F0F0]
rounded-1-full hover:bg-[#F0F0F0]"
                                    type="number"
                                    value={item.quantity}
                                    onClick={() =>
updateQuantity(item. id, item.quantity + 1) }
```

```
className="px-2 py-1.5 bg-[#F0F0F0]
rounded-r-full hover:bg-[#F0F0F0]"
                     ))}
font-satoshi font-bold shadow-lg border rounded-2xl p-6">
                    <h2 className="text-2x1 font-semibold mb-4">Order
Summary</h2>
                         <span className='font-normal</pre>
font-satoshi'>Subtotal</span>
                         <span>${pricing.subtotal.toFixed(2)}</span>
                         <span className='font-normal</pre>
font-satoshi'>Discount </span>
className='text-red-400'>-${pricing.amountOfDiscount.toFixed(2)}</span>
font-satoshi'>Delivery Fee</span>
                         <span>${deliveryFee.toFixed(2)}</span>
                     {pricing.promoDiscount > 0 && promoCode.length > 0 &&
                             <span className='font-normal</pre>
font-satoshi'>Promo Code Discount</span>
className='text-red-400'>-${pricing.promoDiscount.toFixed(2)}</span>
                     <div className="flex justify-between font-bold</pre>
                         <span className='font-normal</pre>
font-satoshi'>Total</span>
                         <span>${ (finalizedTotal).toFixed(2) }</span>
                         <div className="flex w-full flex-row bg-[#F0F0F0]</pre>
rounded-full items-center">
                                 width={25}
                                 height={25}
                                 className="ml-3"
```

```
type="text"
                                onChange={ (e) =>
setPromo((e.target.value).toUpperCase())}
                                placeholder="Promo code"
rounded-full focus:outline-none"
                        <button onClick={() => setPromoCode(promo)}
className="w-full md:w-1/3 bg-black text-white py-2 ml-3 rounded-full
hover:bg-gray-800">
                            Apply
                    <Link href="/cart/checkout">
                            onClick={() => totalFromCart(finalizedTotal)}
items-center bg-black text-white py-3 rounded-full mt-4 hover:bg-black"
height={25} />
```



#### 4. Search Bar Component

```
const SearchBar: React.FC<SearchBarProps> = ({ products }) => {
  const [isDropdownOpen, setIsDropdownOpen] = useState(false);
  const [searchQuery, setSearchQuery] = useState("");
  const [isInteractingWithDropdown, setIsInteractingWithDropdown] =
    useState(false);

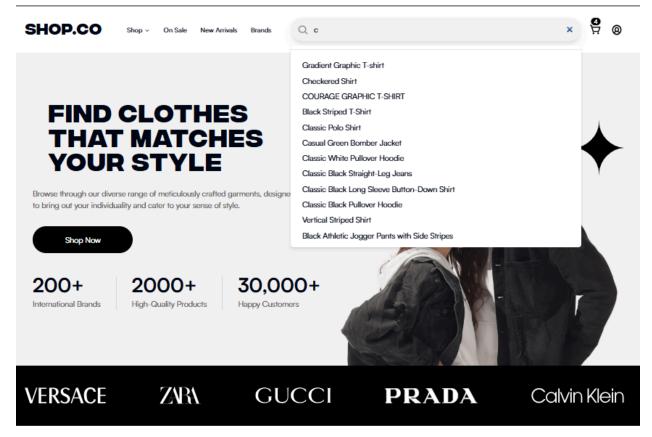
const handleFocus = () => {
    setIsDropdownOpen(true);
};

const handleBlur = () => {
    // Close only if the user is not interacting with the dropdown
    if (!isInteractingWithDropdown) {
        setIsDropdownOpen(false);
    }
};

const handleDropdownMouseEnter = () => {
        setIsInteractingWithDropdown(true);
};
```

```
const handleDropdownMouseLeave = () => {
   setIsInteractingWithDropdown(false);
 const handleCloseDropdown = () => {
   setIsDropdownOpen(false);
 const filteredProducts = products.filter((product) =>
   product.name.toLowerCase().includes(searchQuery.toLowerCase())
 );
   <div className="relative w-full">
           priority
           height={20}
           width={20}
           alt="search"
           className="min-w-5 min-h-5 shadow-none"
         type="search"
         name="search"
         value={searchQuery}
           setSearchQuery(e.target.value)
           handleFocus()
         placeholder="Search for products..."
         onBlur={handleBlur} // Close dropdown on blur (only if not
     {isDropdownOpen && (
rounded-md z-10"
         onMouseEnter={handleDropdownMouseEnter}
         onMouseLeave={handleDropdownMouseLeave}
```

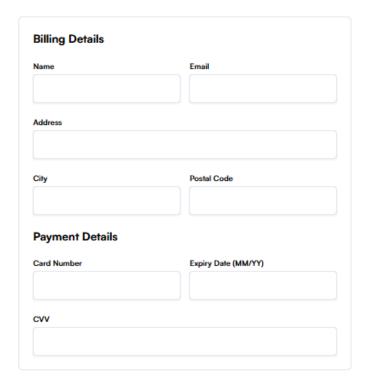


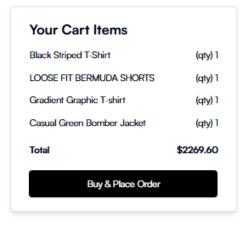


## 5. Checkout Component

```
const checkoutSchema = z.object({
   name: z.string().min(2, "Name must be at least 2 characters long"),
   email: z.string().email("Invalid email address"),
   address: z.string().min(5, "Address must be at least 5 characters
long"),
   city: z.string().min(2, "City must be at least 2 characters long"),
   postalCode: z
        .string()
        .regex(/^\d{5}\$/, "Postal Code must be exactly 5 digits"),
   cardNumber: z
        .string()
        .regex(/^\d{16}\$/, "Card Number must be exactly 16 digits"),
```

## Checkout

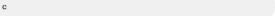




## 6. Header Component

```
href="/"
    className={cn([
      integralCF.className,
<NavigationMenu className="hidden md:flex mr-2 lg:mr-7">
    {data.map((item) => (
      <React.Fragment key={item.id}>
        {item.type === "MenuItem" && (
          <MenuItem label={item.label} url={item.url} />
        {item.type === "MenuList" && (
    ) ) }
  </NavigationMenuList>
<SearchBar products={allProducts} />
  <Link href="/search" className="block md:hidden mr-[14px] p-1">
      priority
      height={100}
      alt="search"
  <CartBtn />
      priority
      height={100}
      width={100}
      alt="user"
```

Qc

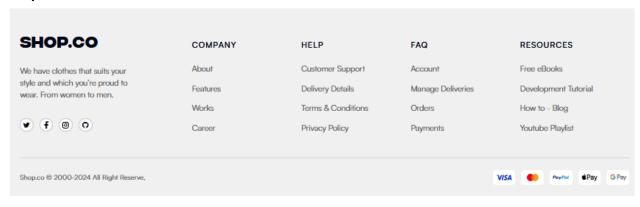




#### 7. Footer Component

```
const Footer = () => {
      <div className="relative">
        <div className="absolute bottom-0 w-full h-1/2</pre>
       <div className="px-4">
      <div className="pt-8 md:pt-[50px] bg-[#F0F0F0] px-4 pb-4">
                className={cn([
                ])}
                SHOP.CO
                We have clothes that suits your style and which you're
proud to
                wear. From women to men.
                {socialsData.map((social) => (
                    href={social.url}
                    key={social.id}
                    className="bq-white hover:bq-black hover:text-white
transition-all mr-3 w-7 h-7 rounded-full border border-black/20 flex
```

```
<div className="grid lg:hidden grid-cols-2 sm:grid-cols-4">
sm:justify-between items-center mb-2">
          mb-4 sm:mb-0 sm:mr-1">
            Shop.co © 2000-2024 All Right Reserve
              className="text-black font-medium"
          <div className="flex items-center">
            {paymentBadgesData.map((badge, _, arr) => (
                key={badge.id}
                className={cn([
                  arr.length !== badge.id && "mr-3",
bg-white flex items-center justify-center",
                 priority
                 src={badge.srcUrl}
                 width={33}
                 height={100}
                 alt="user"
            ))}
```



## 8. Related Products Component

#### **Output:**

Product Details	Rating & Reviews	FAQ's
Product specifications		
Fabric composition	100% Cotton	
Care instructions	Machine wash warm, tumble dry	
Size type	Classic Fit	
Color Design	Solid	

## YOU MIGHT ALSO LIKE



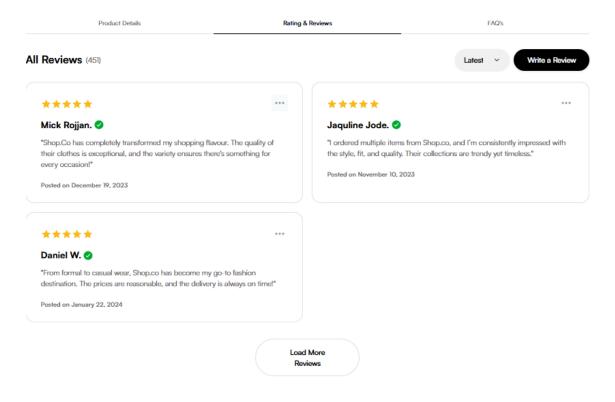




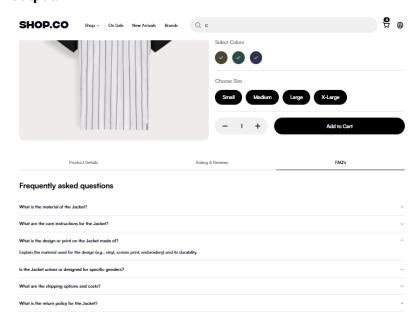


## 9. Reviews and Ratings Component

## **Output:**



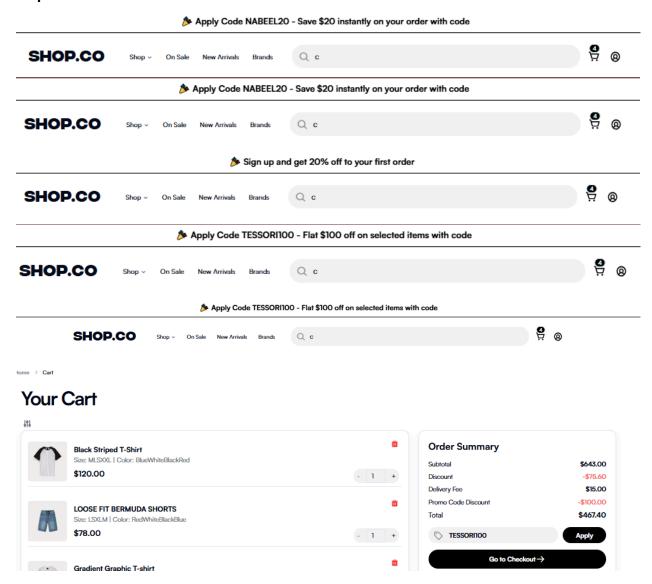
#### 10. FAQ and Help Center Component



## 11. Discount and Promotion Component

#### Code:

// Code snippet for Discount and Promotion Component



Prepared by: Muhammad Nabeel