

DAY 5 - TESTING, ERROR HANDLING, AND BACKEND INTEGRATION REFINEMENT

Test Core Features:

CODE:

```
async function getProductById(id) {

  const query = `*_type == "product" && id == $id}[0]{

    _id,

    name,

    description,

    price,

    discountPercentage,

    tags,

    image{

      asset->{

        url

      }

    },

    rating,

    rateCount

  }`;

  const product = await client.fetch(query, { id });

  return product;

}

export default function ProductDetailPage({ params }) {

  const { id } = React.use(params);

  const [product, setProduct] = useState();

  const [loading, setLoading] = useState(true);

  const dispatch = useDispatch();

  useEffect(() => {

    async function fetchProduct() {
```

```
try {  
  const productData = await getProductById(id);  
  setProduct(productData);  
} catch (error) {  
  console.error("Error fetching product:", error);  
}  
}  
finally {  
  setLoading(false);  
}  
fetchProduct();  
}, [id]);
```



Elegant 3-Piece Suit

A beautifully embroidered 3-piece lawn suit with chiffon dupatta, perfect for summer occasions.

Rs.1797

10% off

★★★★ (234)

3 piece

View

Add to cart



Elegant Party Gown

Gorgeous party gown with intricate embroidery and embellishments.

Rs.2999

20% off

★★★★ (245)

festival

View

Add to cart



Festival Abaya

A luxurious festival abaya with intricate embroidery and vibrant colors, designed for special occasions.

Rs.1500

20% off

★★★★ (313)

abaya

View

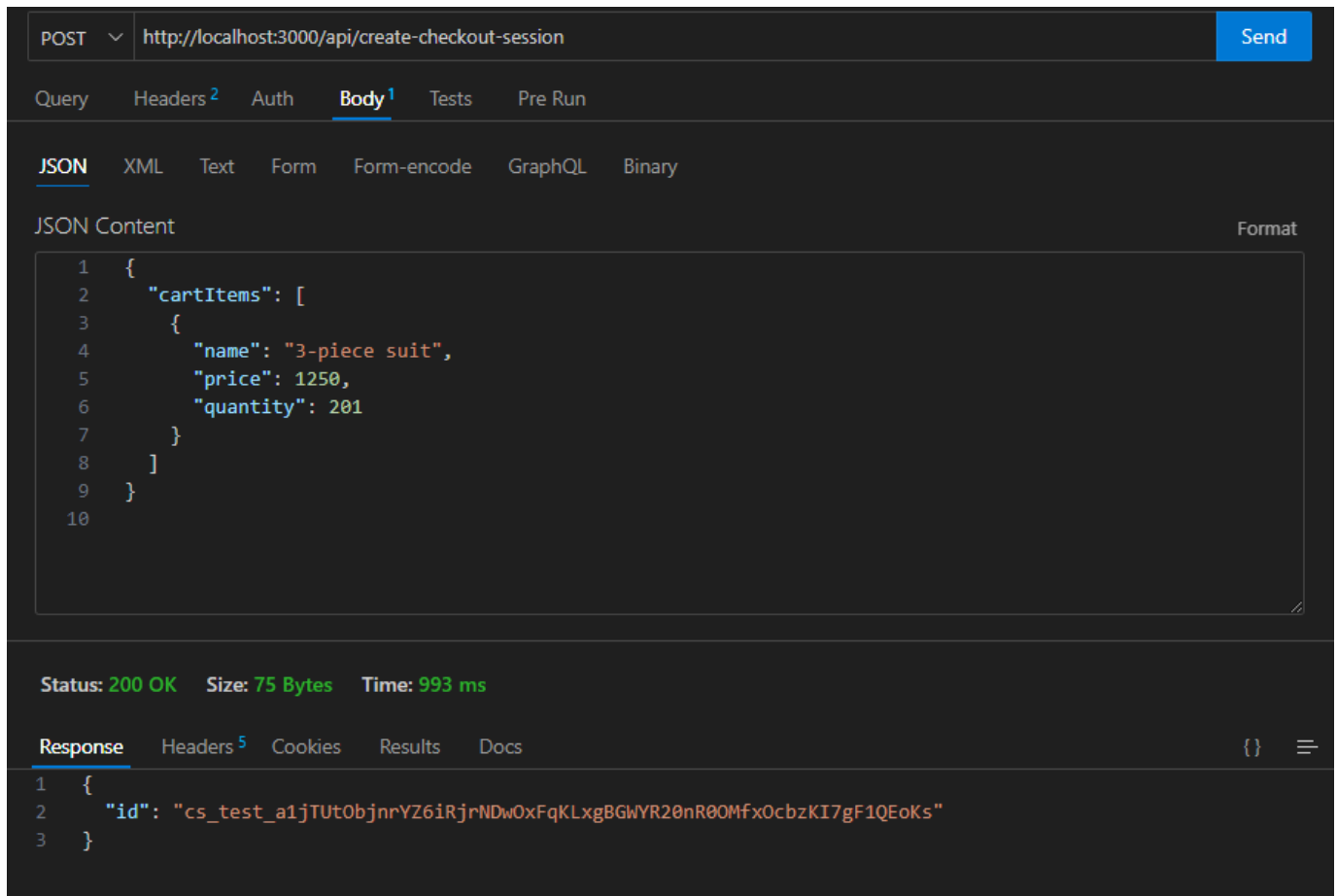
Add to cart



Cart operations: Add, update, and remove items from the cart:

CODE:

```
const handleCheckout = async () => {  
  try {  
    const cartItemsForCheckout = cartItems.map((item) => ({  
      name: item.name,  
      price: item.price,  
      quantity: item.quantity,  
    }));  
    const response = await fetch("/api/create-checkout-session", {  
      method: "POST",  
      headers: {  
        "Content-Type": "application/json",  
      },  
      body: JSON.stringify({ cartItems: cartItemsForCheckout }),  
    });  
  
    const { id } = await response.json();  
    const stripe = await loadStripe(process.env.NEXT_PUBLIC_STRIPE_PUBLISHABLE_KEY);  
  
    await stripe.redirectToCheckout({ sessionId: id });  
  }  
  catch (error) {  
    console.error("Error during checkout:", error);  
  }  
};
```



Testing Tools:

- **Thunder client:** For API response testing to verify data retrieval and submission.
- **React Testing Library:** For testing UI component behavior and state management.

Error Handling

1. Add Error Messages:

- Implement try-catch blocks to handle API errors effectively.

Example:

```
try {  
    const productData = await getProductById(id);  
    setProduct(productData);  
} catch (error) {  
    console.error("Error fetching product:", error);  
}  
finally {  
    setLoading(false);  
}
```

2. Fallback UI:

- Display alternative content when data is unavailable.
- Example: "No items found" message for an empty product list.

Cross-Browser and Device Testing

1. Browser Testing:

- o Test on Chrome, and Edge.
- o Verify consistent rendering and functionality.

2. Device Testing:

- o Use responsive design tools.
- o Manually test on at least one physical mobile device.



Traditional Ladies Suit

\$1350 (8% off)

Description

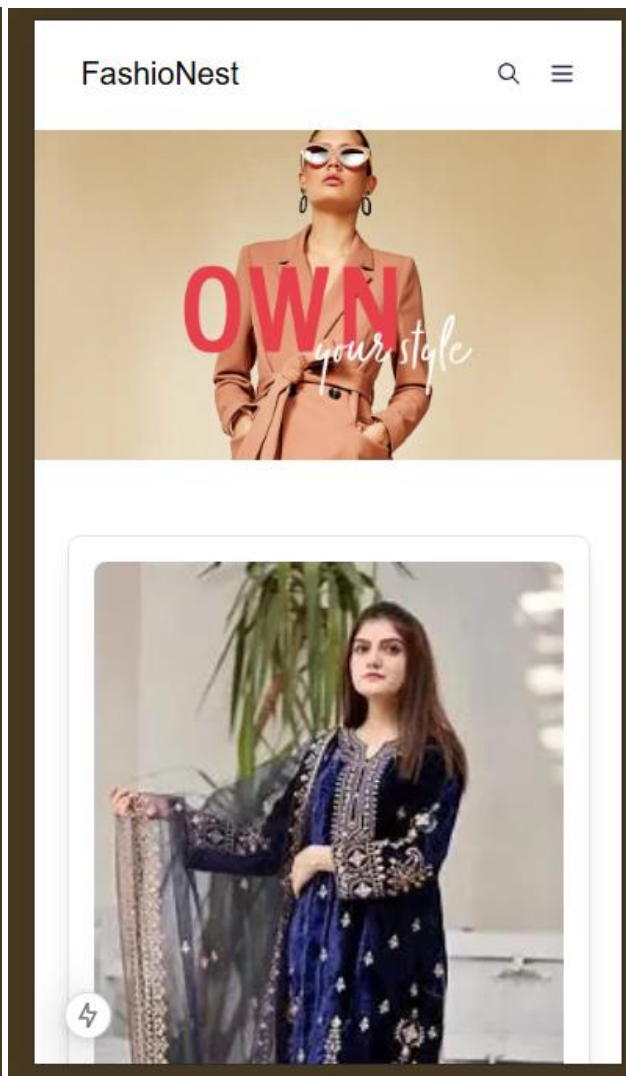
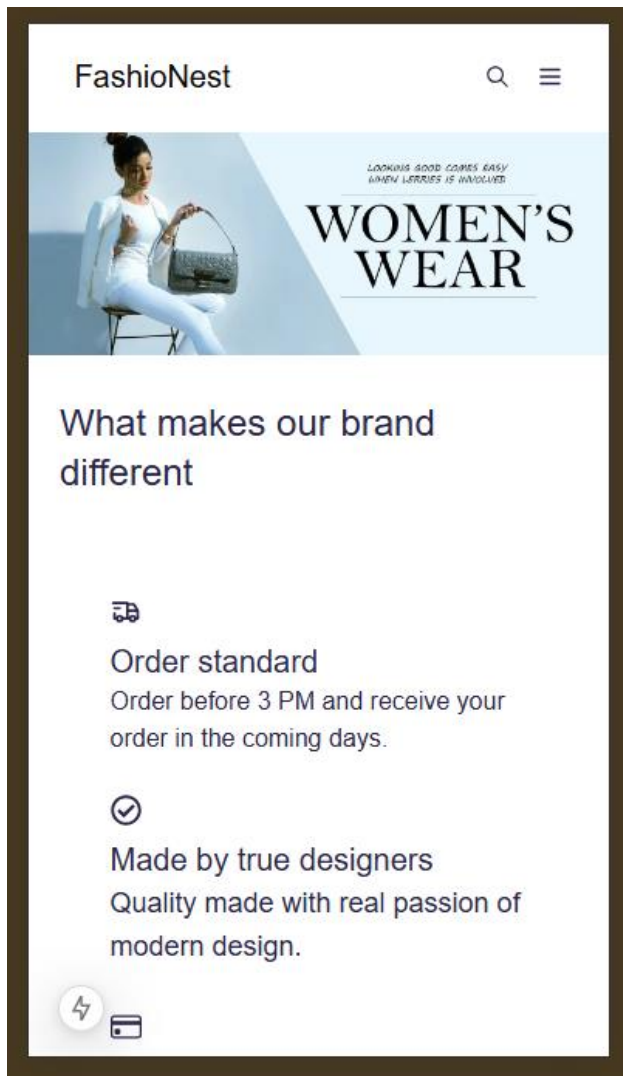
A traditional 3-piece suit that exudes timeless elegance, ideal for festive celebrations.

- Premium Design
- Fabric Quality
- Timeless Classic Style
- Perfect Fit for All Body Types
- Comfortable for All-Day Wear
- Elegant Embroidery or Embellishments
- Breathable and Skin-Friendly Material
- Easy to Maintain and Wash
- Versatile for Casual and Formal Occasions
- Affordable Luxury

Size

| Height | Width | Meter |
|--------|--------|-------|
| 500 cm | 120 cm | 5m |

Add to Cart



Testing Results

Key Issues Found and Resolutions

Issue 1: Product Not Found on Vercel

- **Description:** The product detail page (/Productlist/[id]) worked on localhost but returned "Product not found" on the Vercel deployment.
- **Root Cause:**
 - Environment variables (e.g., Sanity project ID) were not properly configured in Vercel.
 - The id parameter in the URL was not matching the id in the Sanity dataset.
- **Resolution:**
 - Added missing environment variables in the Vercel dashboard.
 - Verified that the id in the URL matches the id in Sanity.
 - Added logging to debug data fetching in production.