

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

Today, I worked on preparing the website ready for the marketplace by addressing all of the mistakes. Problems were managed and detected efficiently using best practices. By using functionality testing, responsive design, and API integration, I ensure that the user will a positive experience.

## 1. Functionality Testing:

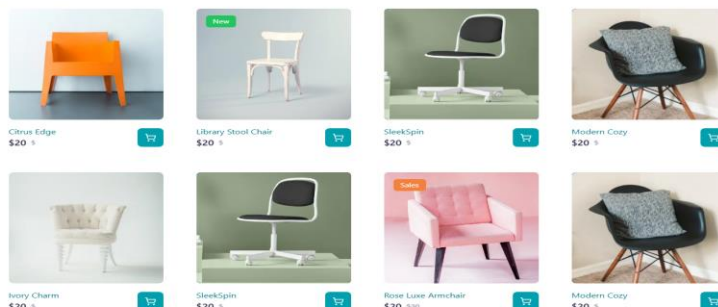
❖ Ensuring all the components works efficiently, including

1. Product Listing
2. Dynamic Routing
3. Profile Management
4. Cart Functionality
5. Checkout Functionality
6. Category Checking

### Product Listing:

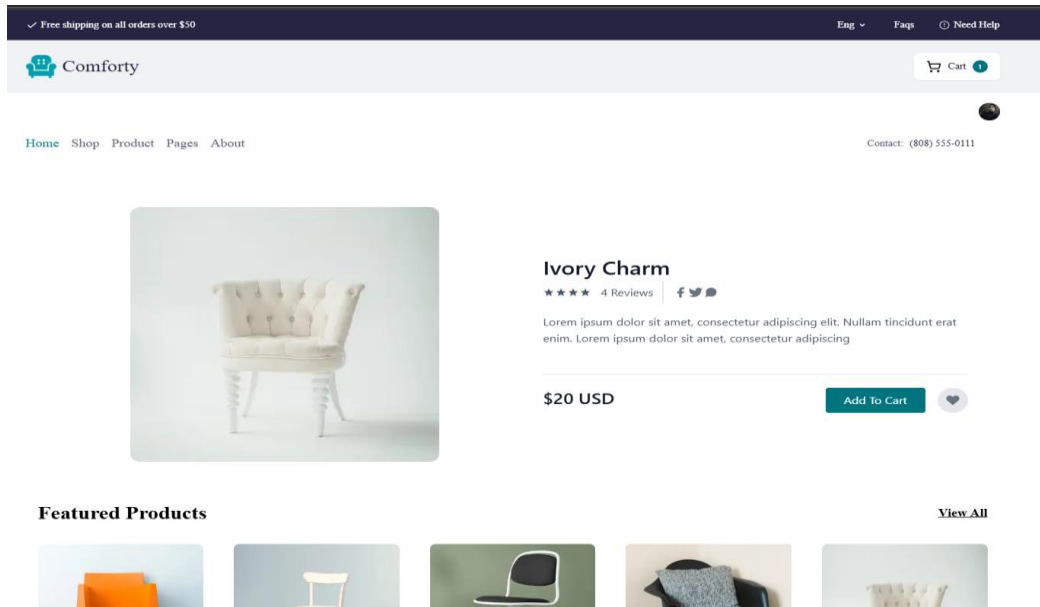
- Ensured all products listed correctly.
- Provided a user-friendly interface.
- Ensured easy navigation.

All Products



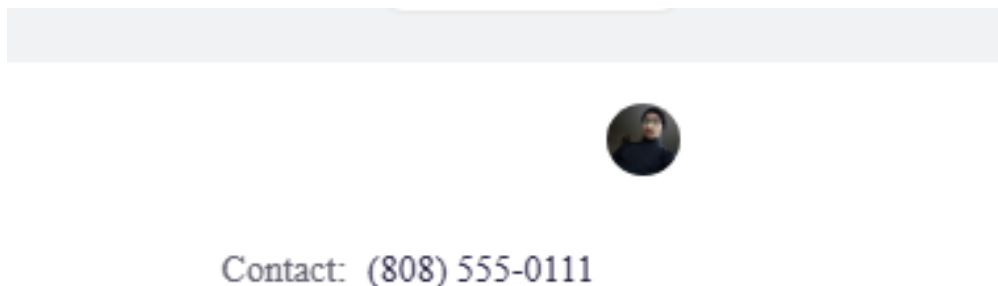
## Detailed Page (Dynamic Routing):

- Each product displayed correctly.
- Product detailed page well organized.
- Provided easy navigation.



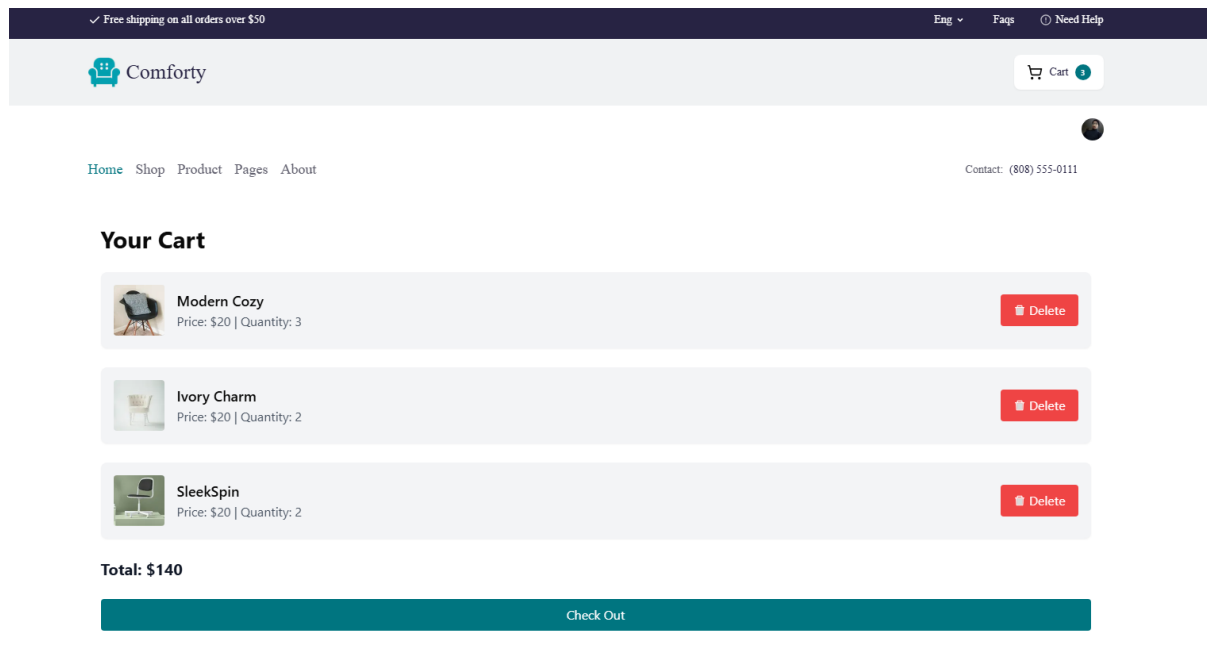
## Profile Management:

- User can manage their account by sign in or sign up.
- Provided smooth sign in option.
- Implemented middleware for redirecting.



## Cart Functionality:

- User can easily add items into the cart.
- Can also easily delete items from the cart.
- Displayed total amount at the bottom.
- Provided a checkout button for navigation.



## Checkout Functionality:

- Well organized checkout page, where user can fill the form and place the order easily.

- Also provided a go back to shop link for more shopping.

### Place Order

Name

Enter full name

Phone

Enter phone number

Address Line 1

Enter address line 1

Address Line 2

Enter address line 2

City

Enter city

State

Enter state

Postal Code

Enter postal code


Country Code

Enter country code


Residential Address

Yes


#### Cart Items



**Modern Cozy**  
 Price: \$20 | Quantity: 3



**Ivory Charm**  
 Price: \$20 | Quantity: 2



**SleekSpin**  
 Price: \$20 | Quantity: 2

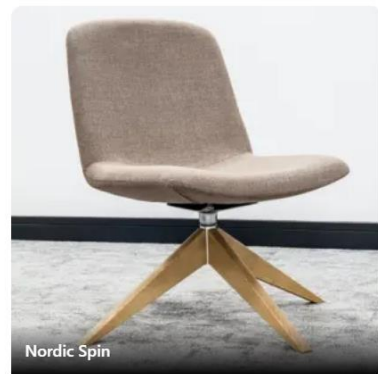
Place Order

Go Back to Shop →

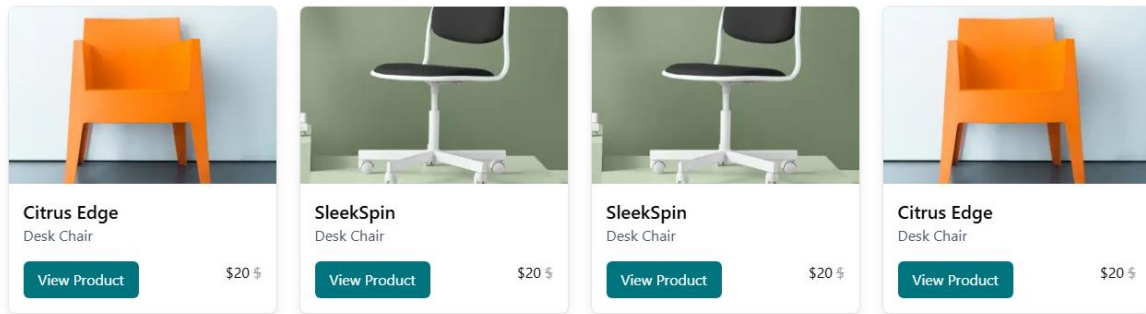
## Category Checking:

- Provided a category wise item for users.
- User can navigate to categories easily.

### Top categories



### *Products in Category: Desk Chair*



## 3.Error Handling:

- Handled error, by applying best practices.
- Used try catch block for effectively manage errors and display messages in place.
- With the help of useEffect, fetching data in a client component. The useEffect hook is a great way to handle side effects, such as fetching data, in React functional components.

```

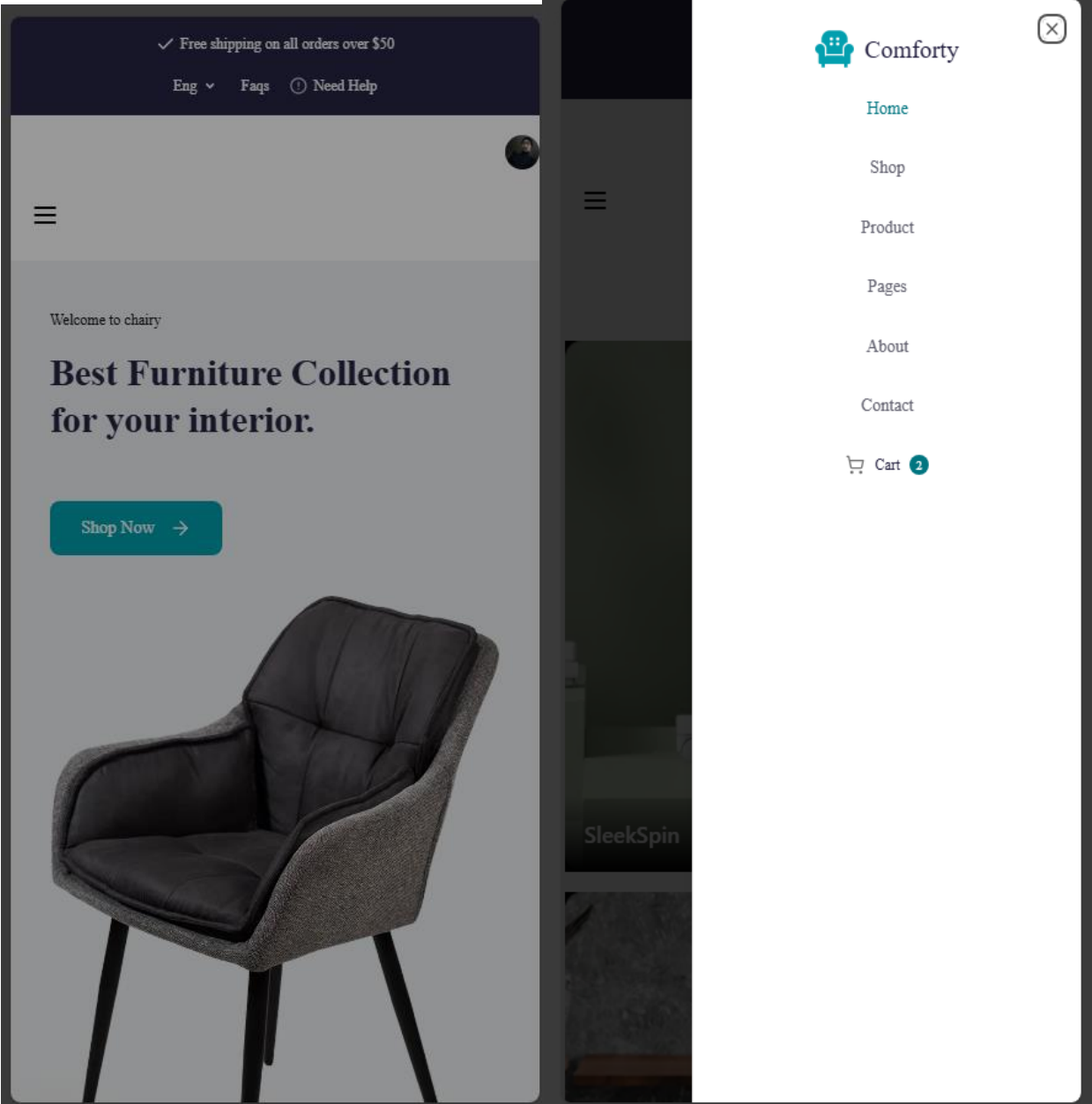
1  "use client"
2  import Image from "next/image";
3  import { client } from "@sanity/lib/client";
4  import Link from "next/link";
5  import { useEffect, useState } from "react";
6
7  // Define the shape of the fetched gallery data
8  interface IGalleryData {
9    _id: string;
10   imageUrl: string;
11   title: string;
12   slug: string;
13 }
14
15 const PopularStyles = () => {
16   const [galleryData, setGalleryData] = useState<IGalleryData[]>([]);
17
18   useEffect(() => {
19     const fetchGalleryData = async () => {
20       const data: IGalleryData[] = await client.fetch(
21         `*[_type == "products" && "gallery" in tags]{
22           _id,
23           "imageUrl": image.asset->url,
24           title,
25           "slug": slug.current
26         }`
27       );
28       setGalleryData(data);
29     };
30
31     fetchGalleryData();
32   }, []);
33

```

- Also, used props for data transferring and ensuring main page will be server side rendered.

## 2. Responsive Design:

Ensured all the pages has been highly responsive.





## Featured Products



Ivory Charm  
\$20 <sup>5</sup>



✓ Free shipping on all orders over \$50

Eng ▾    Fags    ⓘ Need Help



## Your Cart



**Modern Cozy**

Price: \$20 | Quantity: 3

Delete



**Ivory Charm**

Price: \$20 | Quantity: 2

Delete



**SleekSpin**

Price: \$20 | Quantity: 2

Delete

**Total: \$140**

Check Out



Comforty



☰

Your name

Abc

Email address

Abc@def.com

Subject

This is an optional

Message

Hi! i'd like to ask about

Submit

🏆

**High Quality**  
crafted from top materials

✓

**Warranty Protection**  
Over 2 years

🎧

**24 / 7 Support**  
Dedicated support

✓ Free shipping on all orders over \$50

Eng ▾ Faqs ⓘ Need Help

☰

Place Order

Name

Enter full name

Phone

Enter phone number

Address Line 1

Enter address line 1

Address Line 2

Enter address line 2

City

Enter city

State

Enter state

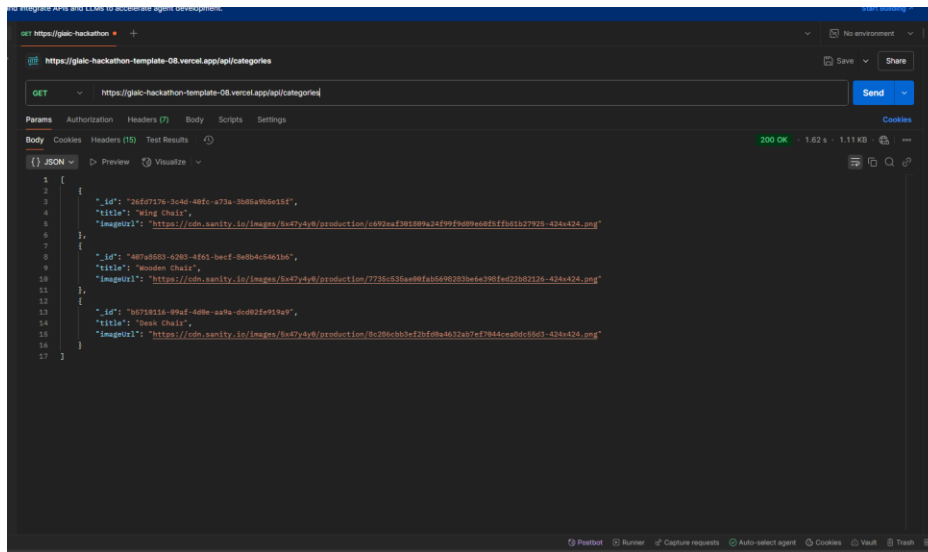
Postal Code

Enter postal code

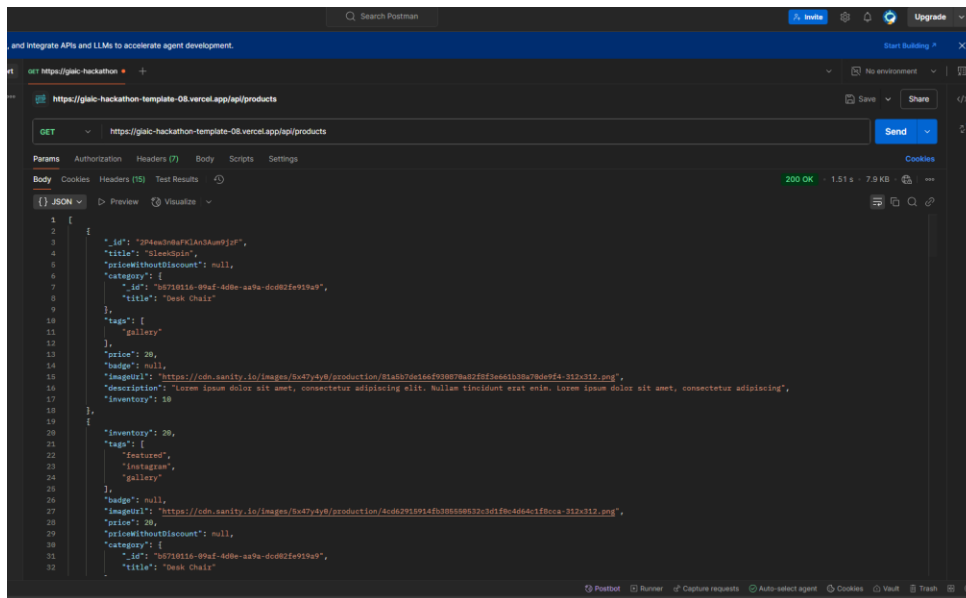
### 3.API Testing:

Testing the Api with their endpoints,

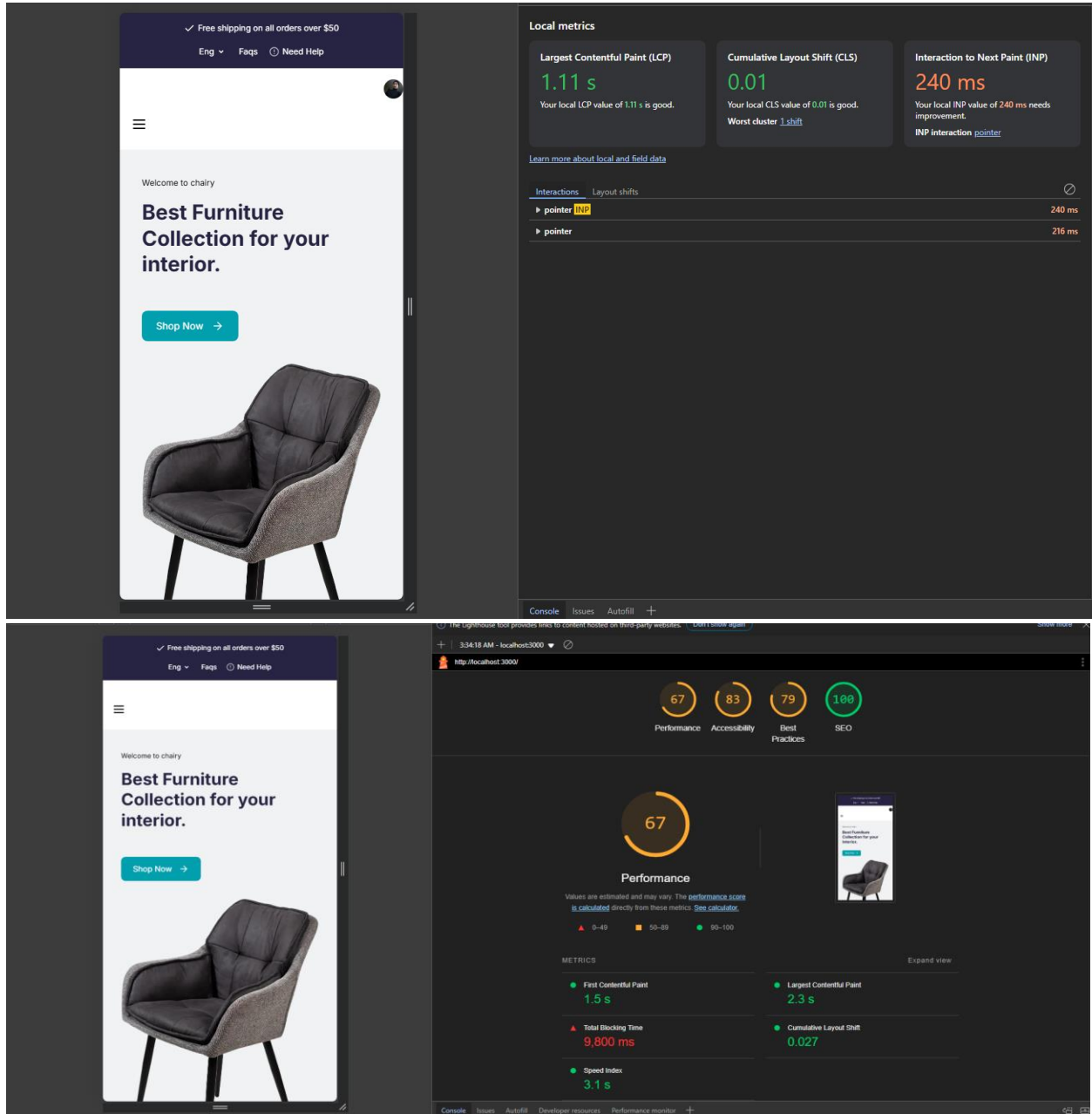
<https://giaic-hackathon-template-08.vercel.app/api/categories>

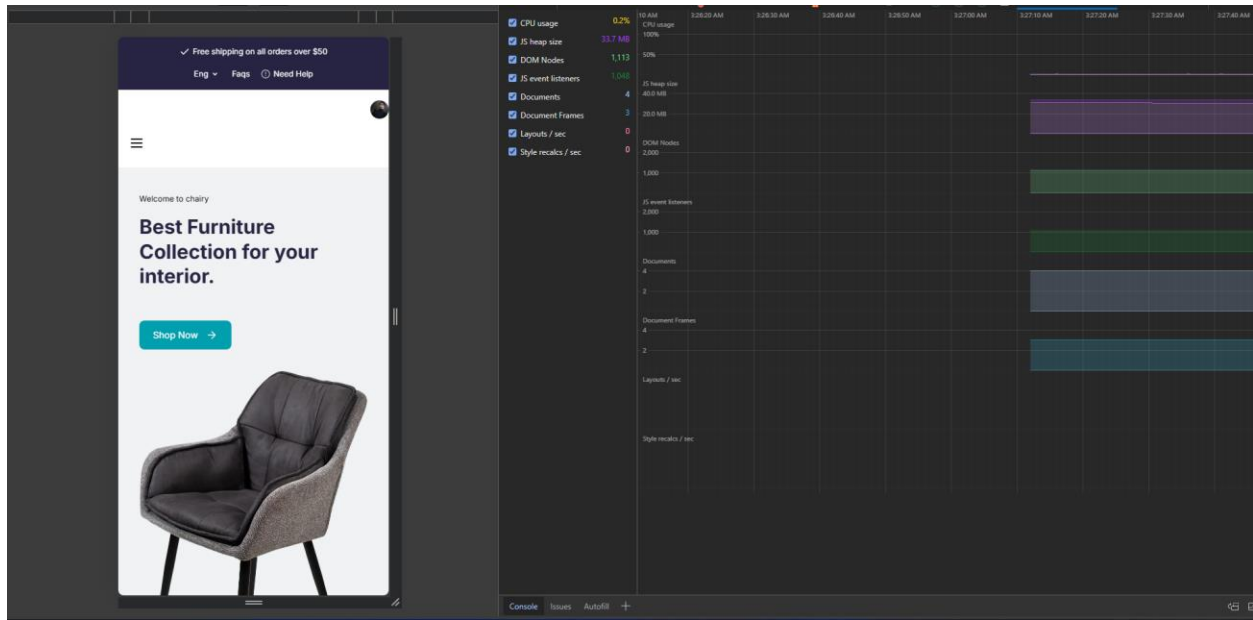


<https://giaic-hackathon-template-08.vercel.app/api/products>

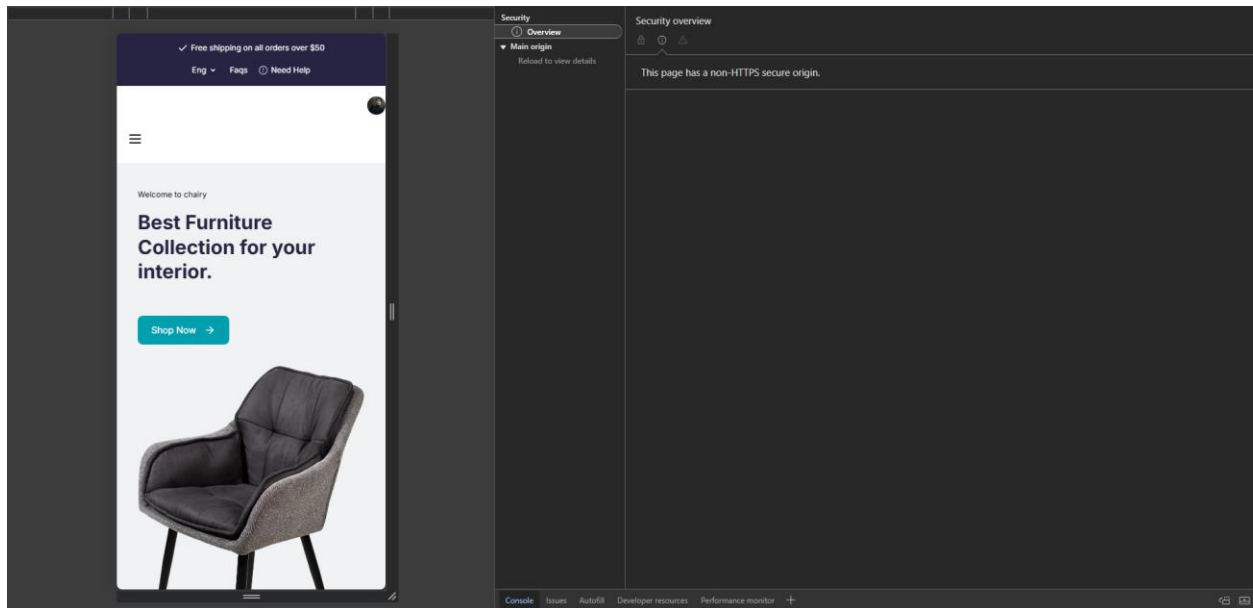


## 4. Performance Optimization:





## 5.Security:



## 6. Cross Browser Testing:

Tested on

- Chrome
- Opera
- Edge

Results a positive outcome.

## Challenges Faced:

- Stuck on error, such a challenging experience, enabling server-side rendering for decreasing a load time for better user experience.
- Add items into the local storage and displayed correctly in cart page.
- Place order details into sanity such an impressive experience.

At the end, I ensured that this marketplace is ready for deployment.