Name: Saba Muhammad Riaz

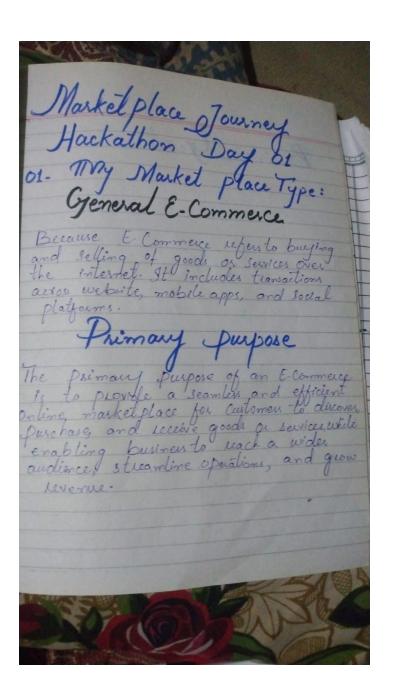
ID: 00485630

Template: 0

Name: Meubel House

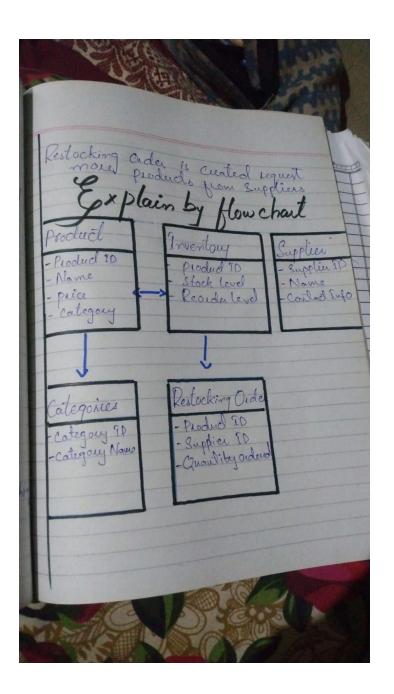
# **Hackathon 3 Marketplace Builder**

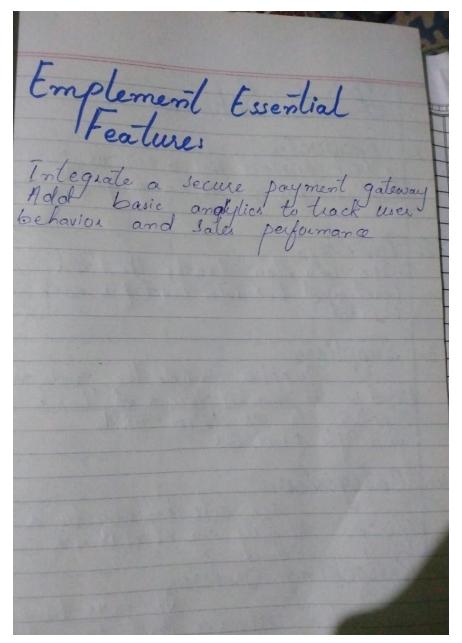
DAY 1: LAYING THE FOUNDATION FOR MARKETPLACE JOURNEY



My Business Youls Develop a july junctional e-Commerce website with an intuitive Oilux. Launch a marketing compaign to Establish social media presence and drive traffic through ads and Promotions Acheire Early Sales Milestone Generate number of sales first [timefram] Acquire registered users Sign-ups. Optimize Website Performana Ensure fast loading times and mobile Resolve initial bags on glitches based on wer feedback.

|     | Dota Schema   |
|-----|---|
| 1-  | PRODUCT: Each product has a cinique product D, Name, Price, and Category.   |
|     | Inventory: The inventory tracks the stock Level and Recorder Level for each product                                     |
| 3-  | Supplier:, Supplier provide the puduch isted in the market place and Each Supplier is associated with multiple products |
| 2 3 | Categories:, pecific calegory (e.g. electronics, clother  |
| - K | Restocking Orders: 3 inventory aches the sestocker level is   |

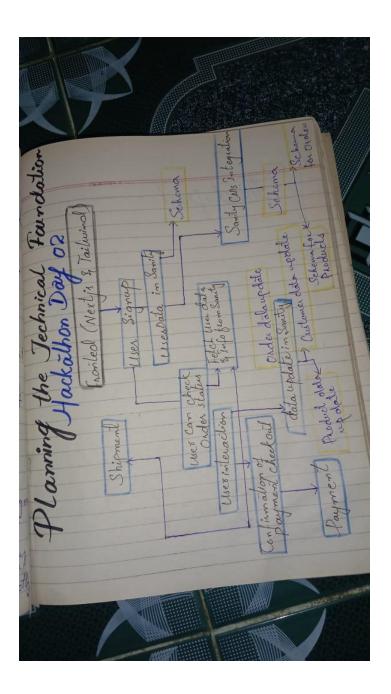




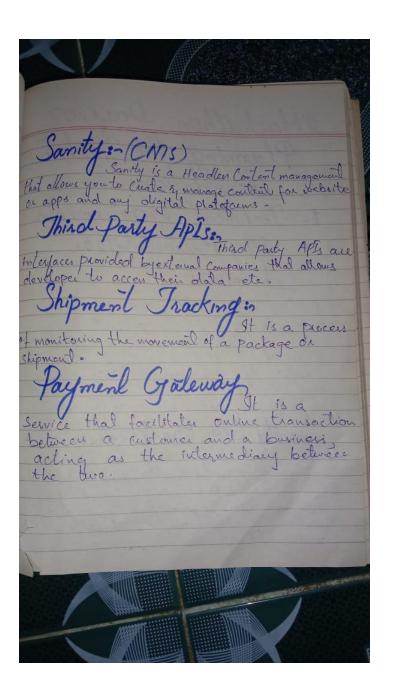
**Hackathon 3 Marketplace Builder** 

Day 2 - Planning The Technical Foundation

My Business Goals



Planning the Jechnical that allow or apps (Next js.) Funled Thin Third party Att interfaces developer Tiacking Shipment User:
who intend with the application, website or
services Fronted (Next. Is) n to the Client-Side pail of a web or mobile of their braiser or app.





# **Hackathon 3 Marketplace Builder**

# Day 3 - API Integration and Data Migration

### **Integrate APIs**

This document provides detailed of the API Integration process, Schema adjustment and Data Migration into Sanity CMS.

Integrating APIs and migrating data into Sanity CMS to build a functional marketplace backend.

## Template 0

Using given APIs to populate their Sanity CMS and Import data manually.

Validate and Adjust Schema

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A Hackathon Figma
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                                               export default {
   name: 'product',
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   fields: [
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                                                     name: 'product',
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            # globals.css
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                                                    title: 'Product
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                                                      name: 'slug',

✓ product \ [slug]

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                                                      options: {
    source: 'name', // Automatically generate slug from 'name' field

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             TS client.ts
                                                        slugify: (input: string) => input.toLowerCase().replace(/\s+/g, '-').slice(0, 96),
              TS fetch.ts
              TS image.ts
                                                      validation: (Rule: { required: () => any; }) => Rule.required(),
                                                     name: 'image',
type: 'image',
title: 'Image',
options: {
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                                                        hotspot: true, // Enable image cropping
            TS structure.ts
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            TS product.ts
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       > OUTLINE
```

### **Data Fetching**

Fetch and transform data from the API according to my template 0

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∠ Hackathon Figma

                                                                                                                                                                                                                                                                                                             ☼ ☼ ↔ ↔ ↔ ⑤ □

    page.tsx ...\app\Cart M

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                                                                ents > 🎡 Ourblog.tsx >
                            Import Nage from 'next/inage':

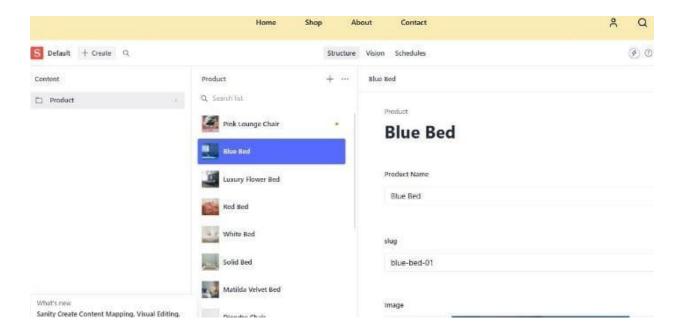
| You, 9 minutes ago * Uncommitted changes import Link from 'next/inak'; import Swal from 'sweetalert2'; import Swal from 'sweetalert2'; import { Product } from 'g/sanity/lib/queries'; // Path to queries import { Product } from 'g/sanity/lib/mage'; // Assuming you have a type for products import { urlfor } from 'g/sanity/lib/image'; // Sanity client import { client } from 'g/sanity/lib/client; // Sanity client import { addToCart } from 'g/app/actions/actions';
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                             const Whatshopping = () => {
  const [products, setProducts] = useState<Product[]>([]);
  const [error, setError] = useState<string | null>(null);
 Ç
                                 // Fetch products dynamically on component mount
                                       const fetchProducts = async () => {
                                          try {
  const fetchedProducts = await client.fetch(allProducts); // Fetch data from Sanity
  setProducts(fetchedProducts); // Update state with fetched data
                                             catch (error) {
setError('Error fetching products. Please try again later.'); // Set error state if fetching fails
                                     fetchProducts();
                  31
32
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                                  // Handle adding to cart
const handleAddToCart = (e: React.MouseEvent, product: Product) => {
    e.preventDefault(); // Prevent default link navigation
 0
```

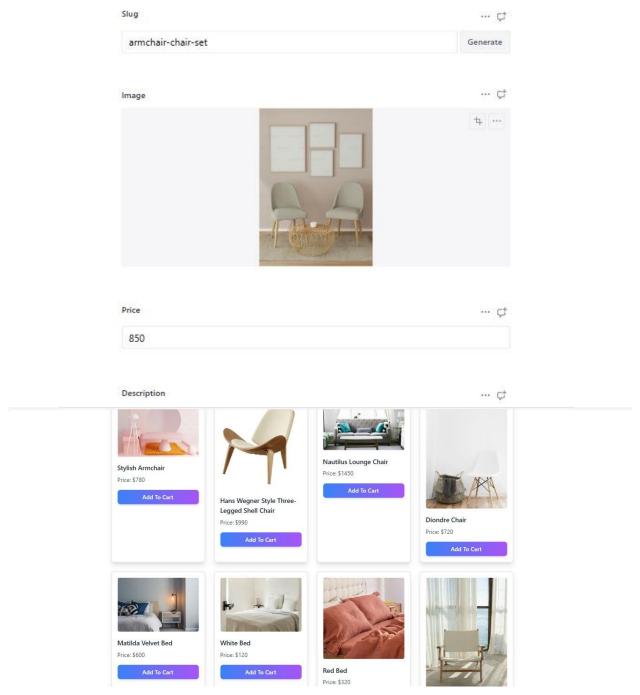
```
    page.tsx ...\Blog

       → HACKATH... 🚹 🖭 💢 🗊 my-app > src > product > [slug] > ۞ page.tsx > ..
                                              import { urlFor } from "@/sanity/lib/image";
import { client } from "@/sanity/lib/client";
       ∨ my-app
                                              import { Product } from "@/types/product";
import { groq } from "next-sanity";
           ✓ studio \ [[...too... •
                                              // Interface for dynamic route parameters
           layout.tsx
                                             interface ProductPageProps {
  params: { slug: string };
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                                              // Fetch product details from Sanity
async function getProduct(slug: string): Promise<Product | null> {
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                                                      turn await client.fetch(
groq`*[_type == "product" && slug.current == $slug][0]{
    _id,
           sanity
            TS client.ts
            TS image.ts
                                                       { slug }
                                                   catch (error) {
console.error("Error fetching product:", error);
      > OUTLINE
                                              export default async function ProductPage({ params }: ProductPageProps) {
```

### Manual Import Data

Export data from the API by using Sanity.





# **Hackathon 3 Marketplace Builder**

Day 4 – Building Dynamic Frontend Components For Marketplace

Day 3 Recap

On Day 3, I focused on API integration and data migration to prepare my website for

dynamic data handling.

Familiarized myself with the API documentation and the provided endpoints.

Tested the endpoints using Postman

Designed and implemented content models in Sanity CMS to store relevant data.

Migrated data from external sources APIs to Sanity CMS.

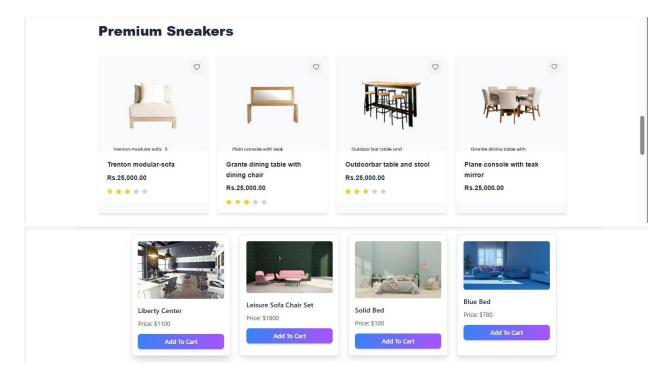
Implemented error handling and response parsing to ensure robustness in API integrations.

## Day 4

# Building Dynamic Frontend Components to Display Data from Sanity CMS or APIs

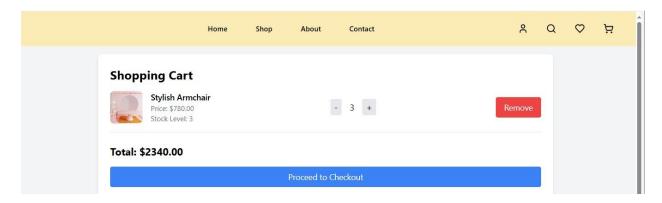
- Developed dynamic frontend components that fetch and display data from Sanity CMS or external APIs.
- Used React for building components.
- Sanity client for retrieving data from Sanity

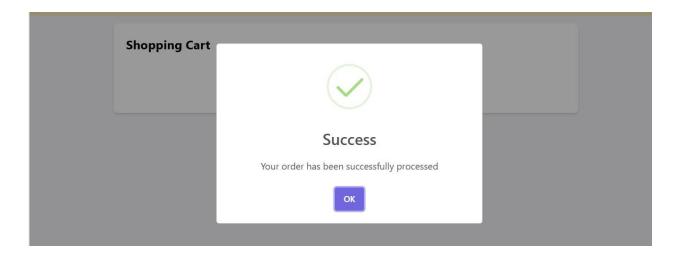
## Frontend components to display data from Sanity CMS



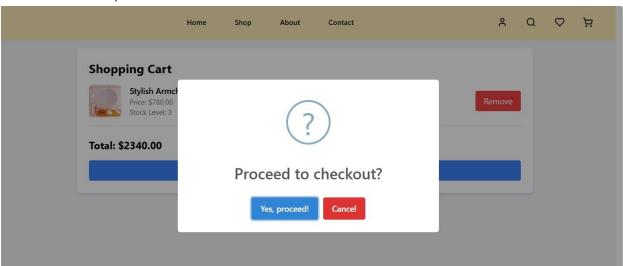
### **Cart Component**

Display added items, quantity, and total price.





### **Checkout Component**



## SignUp Page





Sign Up

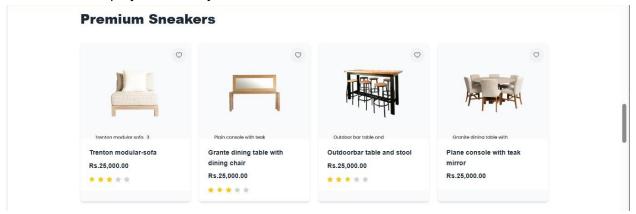
# Day 5 - Testing, Error Handling, and Backend Integration Refinement

### **Functional Testing**

All marketplace features have been thoroughly tested and validated to ensure they are functioning as intended.

**Product listing** 

Products are displayed correctly



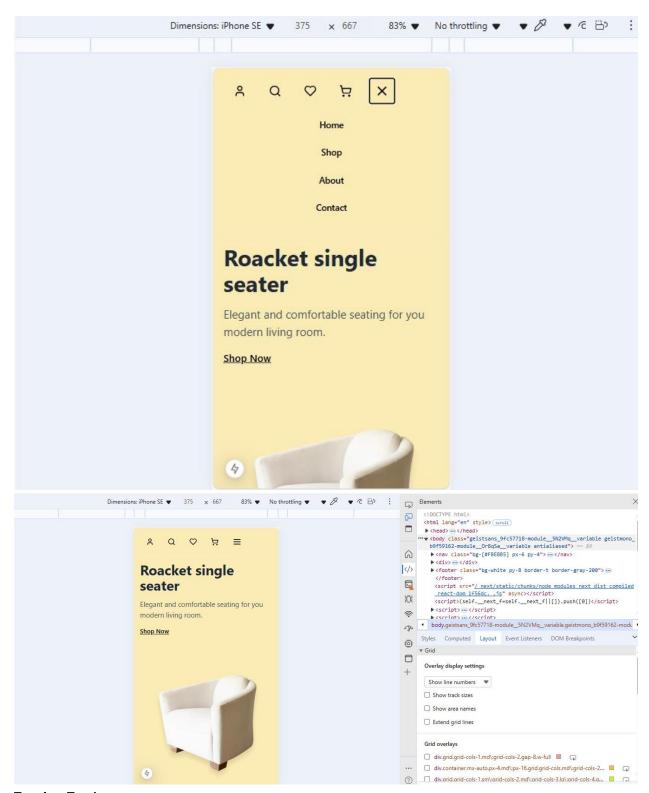
## **Cart operations**

Add, update, and remove items from the cart working perfectly



### Responsive

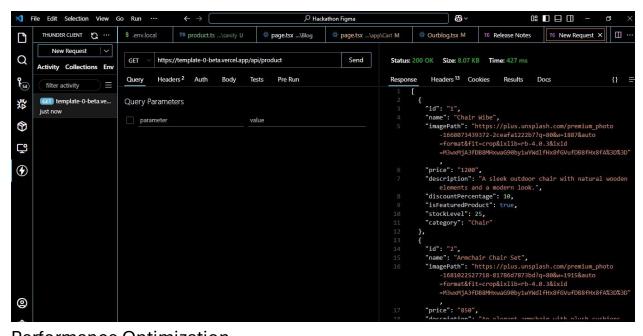
Responsive design testing has been completed to ensure the marketplace is fully optimized and functions seamlessly across all devices and screen sizes



**Testing Tools** 

### **Postman**

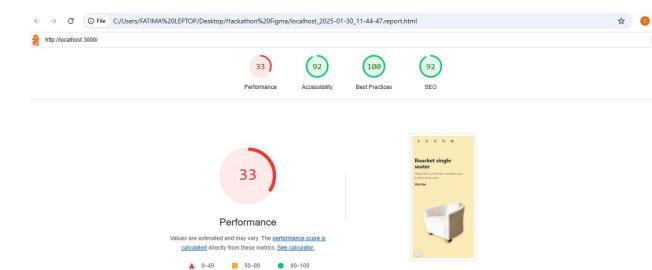
API responses have been tested using Postman to ensure they meet the expected behavior and performance standards



### Performance Optimization

### **Testing Report**

| Te<br>st<br>Ca<br>se<br>ID | Test<br>Case<br>Descri<br>ption | Test Steps                             | Expected Result                            | Actual Result                                | Status                                      | Sev<br>erit<br>y<br>Lev<br>el | As<br>sig<br>ne<br>d<br>To | R e m a r k s |                               |
|----------------------------|---------------------------------|--|--|--|---|-------------------------------|----------------------------|---------------|-------------------------------|
| 2                          | TC001                           | Validate<br>product<br>listing page    | Open product page > Verify products        | Products<br>displayed<br>correctly           | Products<br>displayed<br>correctly          | Pas<br>sed                    | hei<br>gh                  | -             | No<br>issues<br>found         |
| 3                          | TC002                           | Test API<br>error<br>handling          | Disconnect API ><br>Refresh page           | Show fallback<br>UI with error<br>message    | Error message<br>shown                      | Pas<br>sed                    | Me<br>diu<br>m             | 1             | Handle<br>d<br>graceful<br>ly |
| 4                          | TC003                           | Check cart<br>functionality            | Add product to cart > Verify cart contents | Cart updates<br>with added<br>product        | Cart updates as expected                    | Pas<br>sed                    | Hi<br>gh                   | -             | No<br>issue<br>found          |
| 5                          | TC004                           | Ensure<br>responsivene<br>ss on mobile | Resize browser<br>window > Check<br>layout | Layout adjusts<br>properly to<br>screen size | Responsive<br>layout working<br>as intended | Pas<br>sed                    | Me<br>diu<br>m             | -             | Test<br>successf<br>ul        |



▲ Largest Contentful Paint

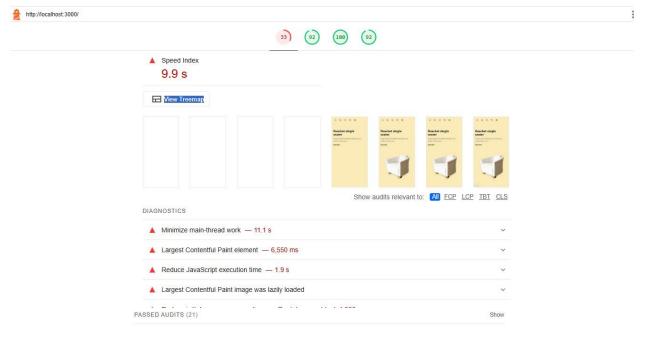
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Expand view

METRICS

▲ First Contentful Paint

5.3 s





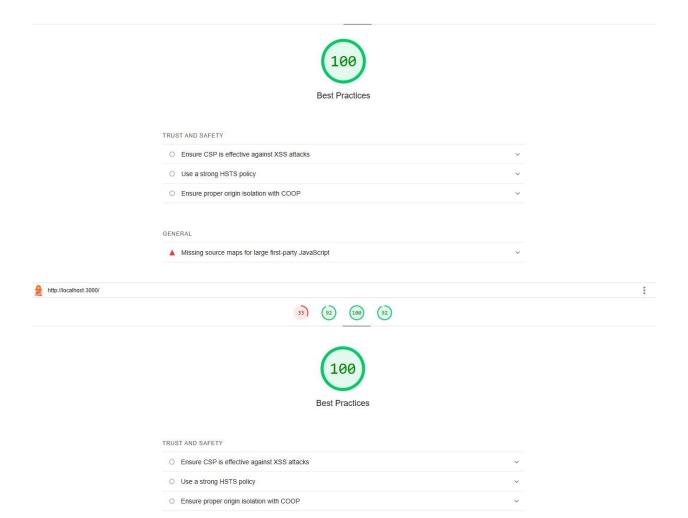
### Accessibility

These checks highlight opportunities to <u>improve the accessibility of your web app</u>. Automatic detection can only detect a subset of issues and does not guarantee the accessibility of your web app, so <u>manual testing</u> is also encouraged.

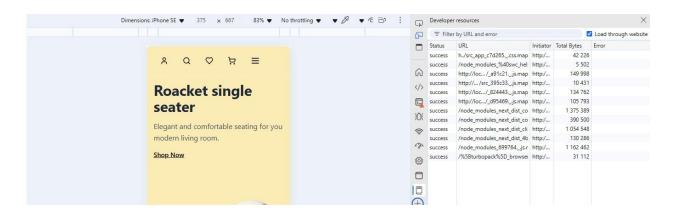
#### NAMES AND LABELS

▲ Buttons do not have an accessible name

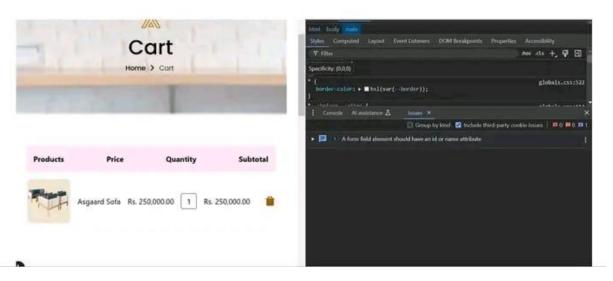
Thaca are annorminities to improve the compatitive of the controls in vour annihilation. This may enhance the experience for users of assistive



## **Developer Resources**



# **ISSUES:**



# **SECURITY:**

