

Day 5 - Testing and Backend Refinement – [E-Commerce]

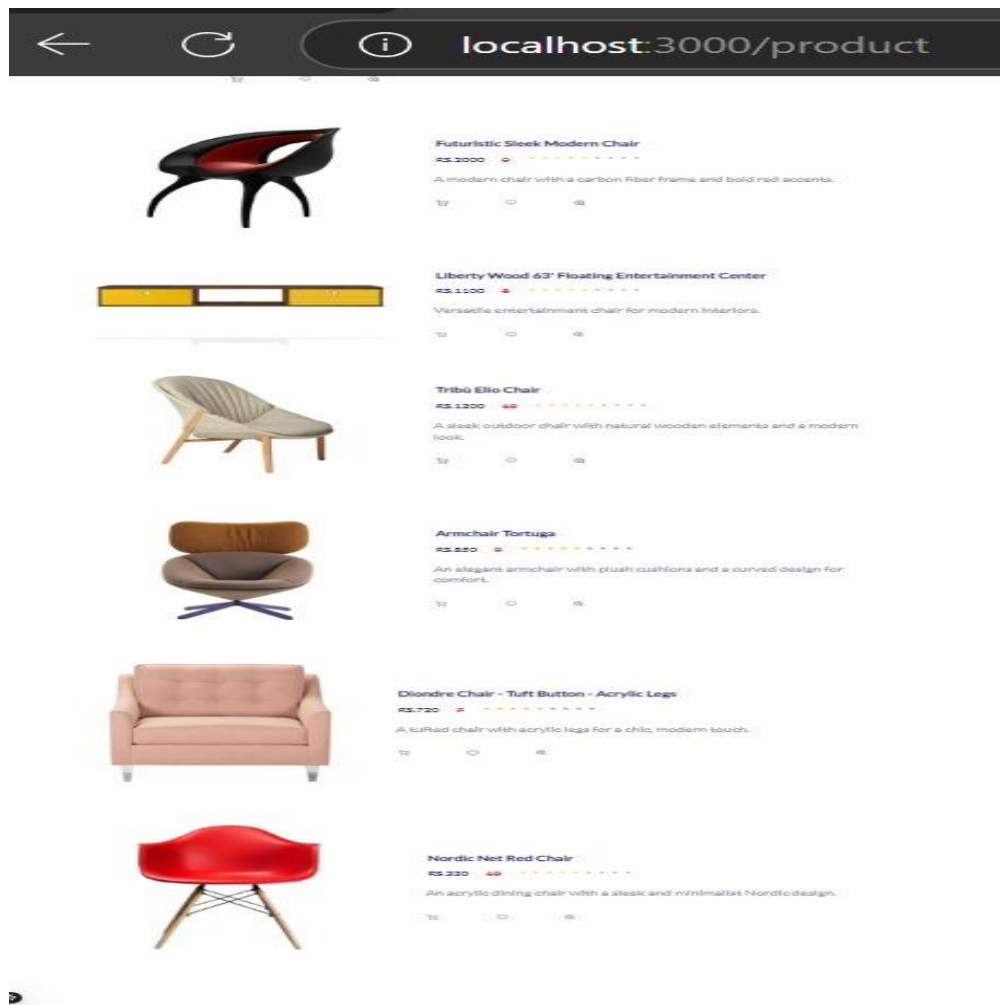
Hekto (eCommerce Website)

Prepared by : Nazia Imran

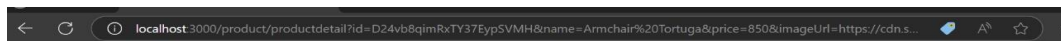
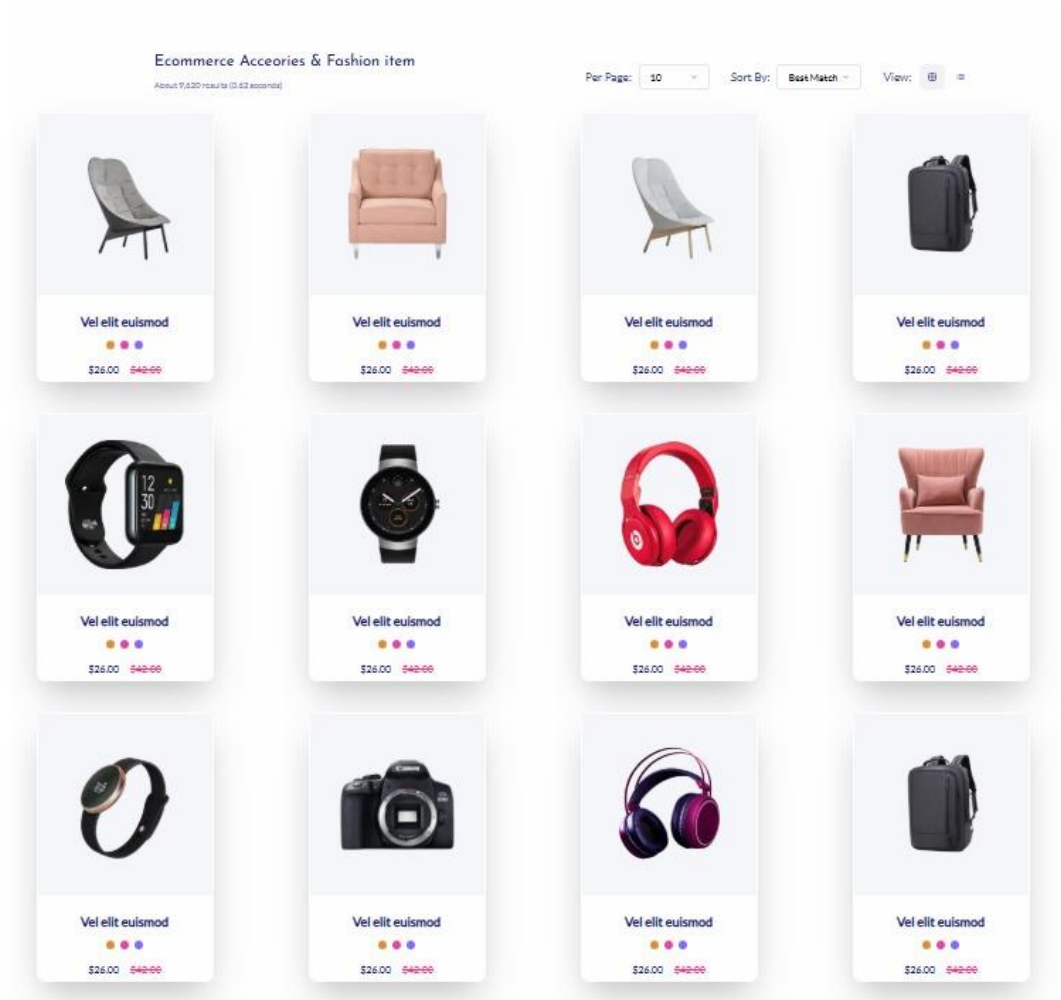
Date : 21 January 2025

Step 1 : Functional Testing

- Product Listing



- Dynamic Product




Armchair Tortuga

★★★★★ (22)

\$850 %

Stock:

An elegant armchair with plush cushions and a curved design for comfort.

 Add To Cart

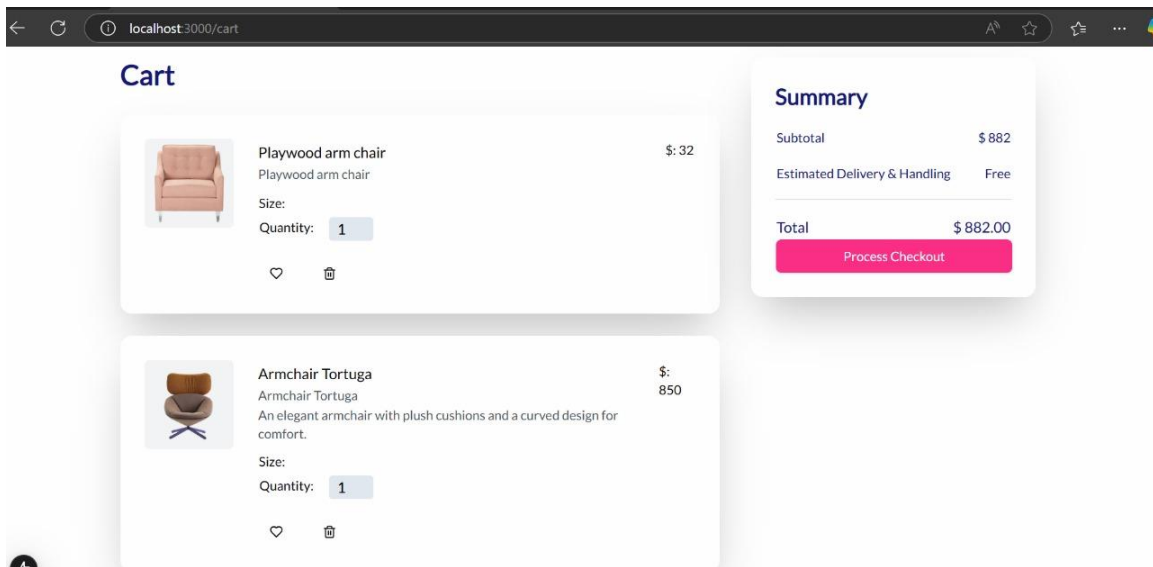
Chair

Tags:

Share:   



-  Cart



- Checkout

-

Billing Information

Cart/ Information/ Shipping/ Payment

Contact Information

Email or mobile phone number
sayedajeez55@gmail.com

Keep me up to date on news and exclusive offers

Shipping Address

First name (optional)
Sayed

Last name
Shah

Address
House No 123

Apartment, suite, etc. (optional)
suite no 1

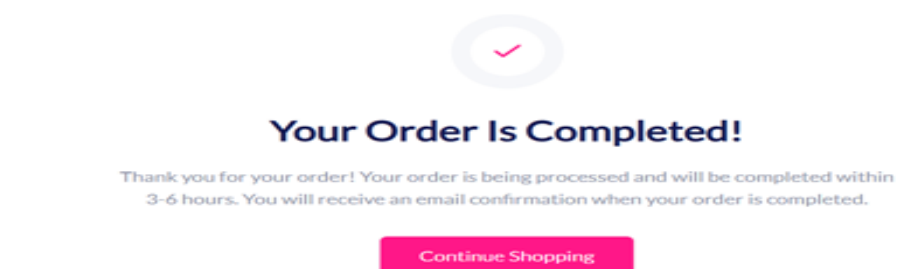
City
Hyderabad

Country
Pakistan

Postal Code
75300

Continue Shopping

Order Complete



- Shipment

localhost:3000/shipment

✉ mhhasanul@gmail.com

☎ (12345)67890

Hekto

[Home](#)[Pages](#) ▼[Products](#)

📦 Shipping Information

Enter the shipping details for your package

Full Name

abc

Phone Number

+923411234567

Email

abv@gmail.com

Address

123-asp

Address Line 2 (Optional)

apt56-sas

City

Karachi

State

sindh

ZIP Code

79500

Country

United States ▼

📦 Package Dimensions

Weight (oz)

2.2

Length (in)

2.4


Width (in)



2.2

Height (in)

2.8

Create Shipping Label

 localhost:3000/shipment

 mhasanul@gmail.com  (12345)67890

Hekto

HomePages▼Prod


Shipping Label Created Successfully!


Your package has been processed and is ready for shipment

Tracking Number:9405511899563483177276

Shipping Cost:\$17.54 USD

Track Package

 Download PDF Label

 Download PNG Label

Shipping Details

Name: Ali

Address: 525 S Winchester Blvd
Karachi, Sindh 95128

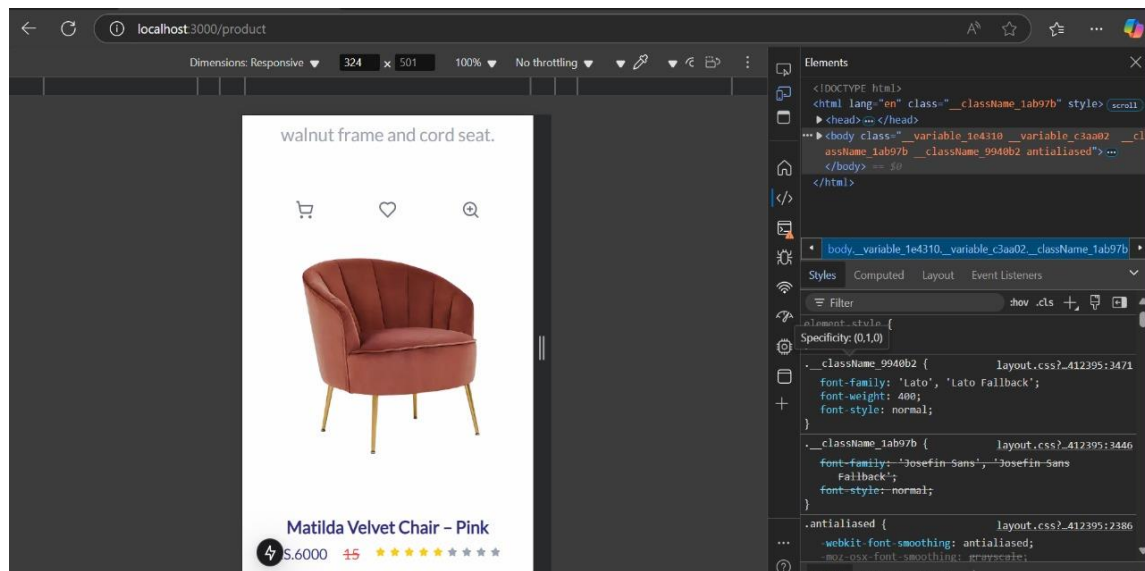
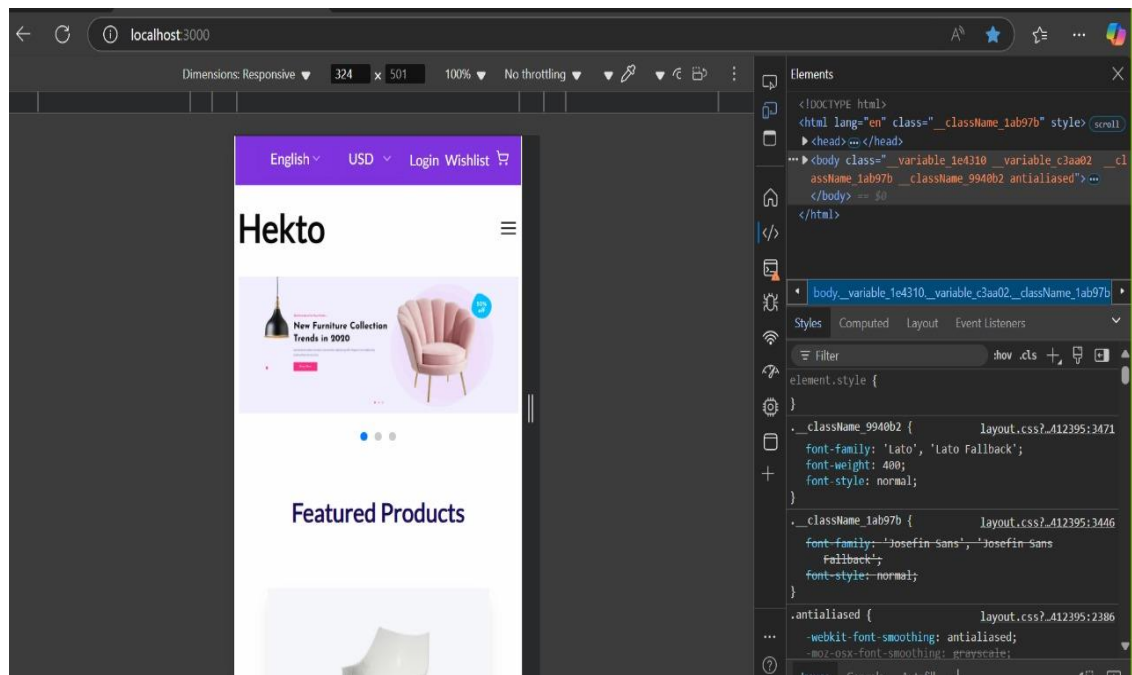
Phone: +92 444-444-4444

Create Another Shipment

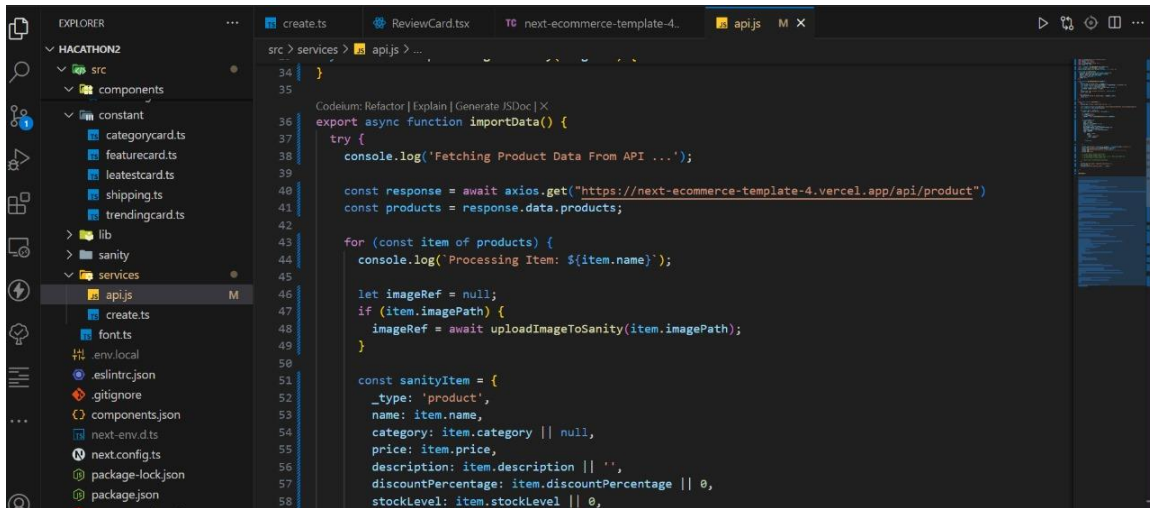
HACKATHON-2 DAY-5

E-Commerce

- Responsive



Step 2 : Error Handling :



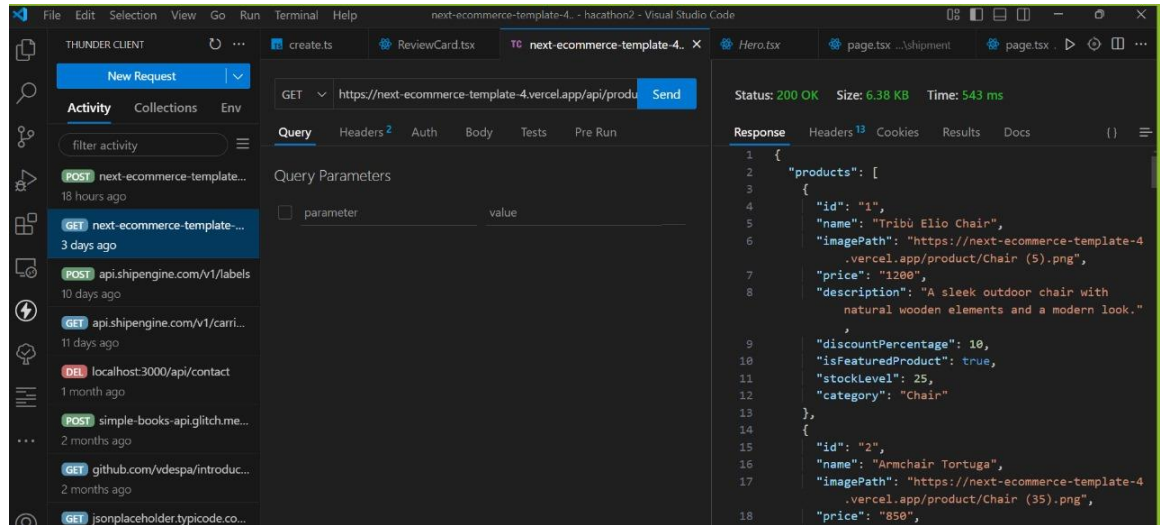
```
src > services > apijs > ...
34 }
35
36 Codeium: Refactor | Explain | Generate JS/Doc | X
37 export async function importData() {
38   try {
39     console.log('Fetching Product Data From API ...');
40
41     const response = await axios.get("https://next-e-commerce-template-4.vercel.app/api/product")
42     const products = response.data.products;
43
44     for (const item of products) {
45       console.log('Processing Item: ${item.name}');
46
47       let imageRef = null;
48       if (item.imagePath) {
49         imageRef = await uploadImageToSanity(item.imagePath);
50       }
51
52       const sanityItem = {
53         _type: 'product',
54         name: item.name,
55         category: item.category || null,
56         price: item.price,
57         description: item.description || '',
58         discountPercentage: item.discountPercentage || 0,
59         stockLevel: item.stockLevel || 0,
```

```
const sanityItem = {
  description: item.description || '',
  discountPercentage: item.discountPercentage || 0,
  stockLevel: item.stockLevel || 0,
  isFeaturedProduct: item.isFeaturedProduct,
  image: imageRef
  ? {
    _type: 'image',
    asset: {
      _type: 'reference',
      _ref: imageRef,
    },
  }
  : undefined,
};

console.log(`Uploading ${sanityItem.category} - ${sanityItem.name} to Sanity !`);
const result = await client.createOrReplace(sanityItem);
console.log(`Uploaded Successfully: ${result._id}`);
console.log("-----")
console.log("\n\n")
```

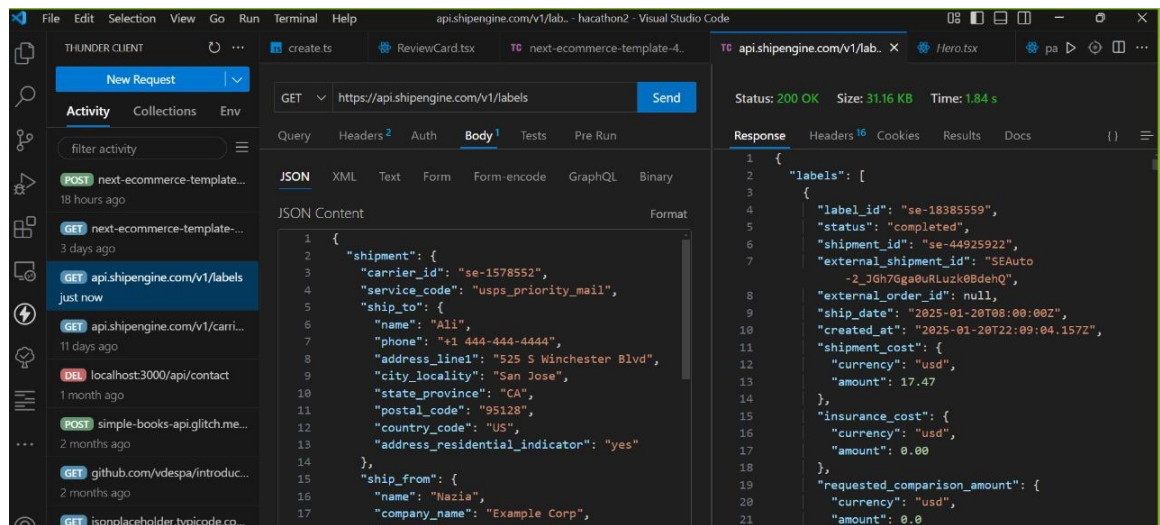

Step 3 : API Fetching Response using Thunder Client :

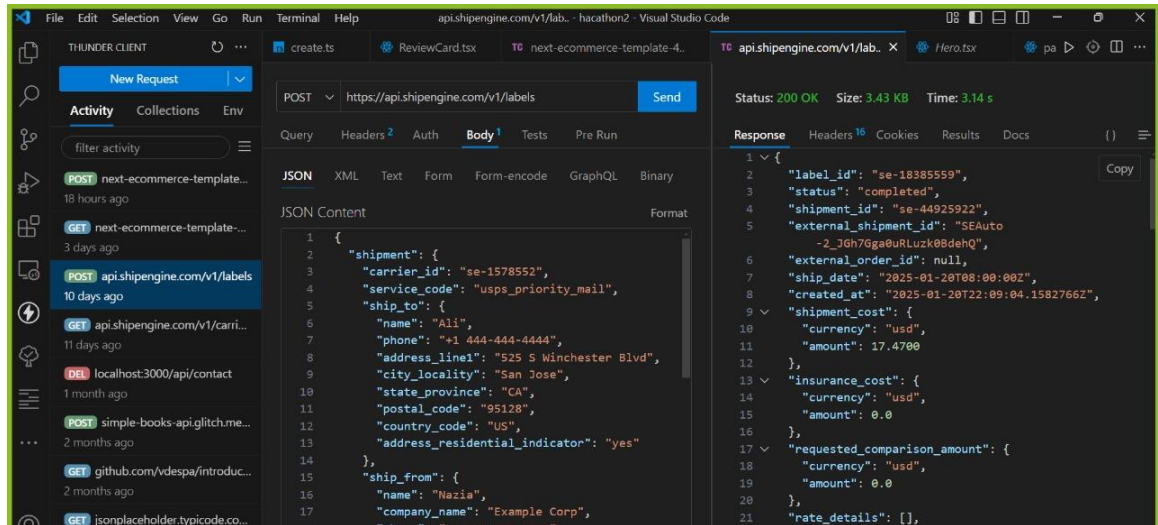
- **Product Data Fetching Through GET Method**



Get Response Status 200

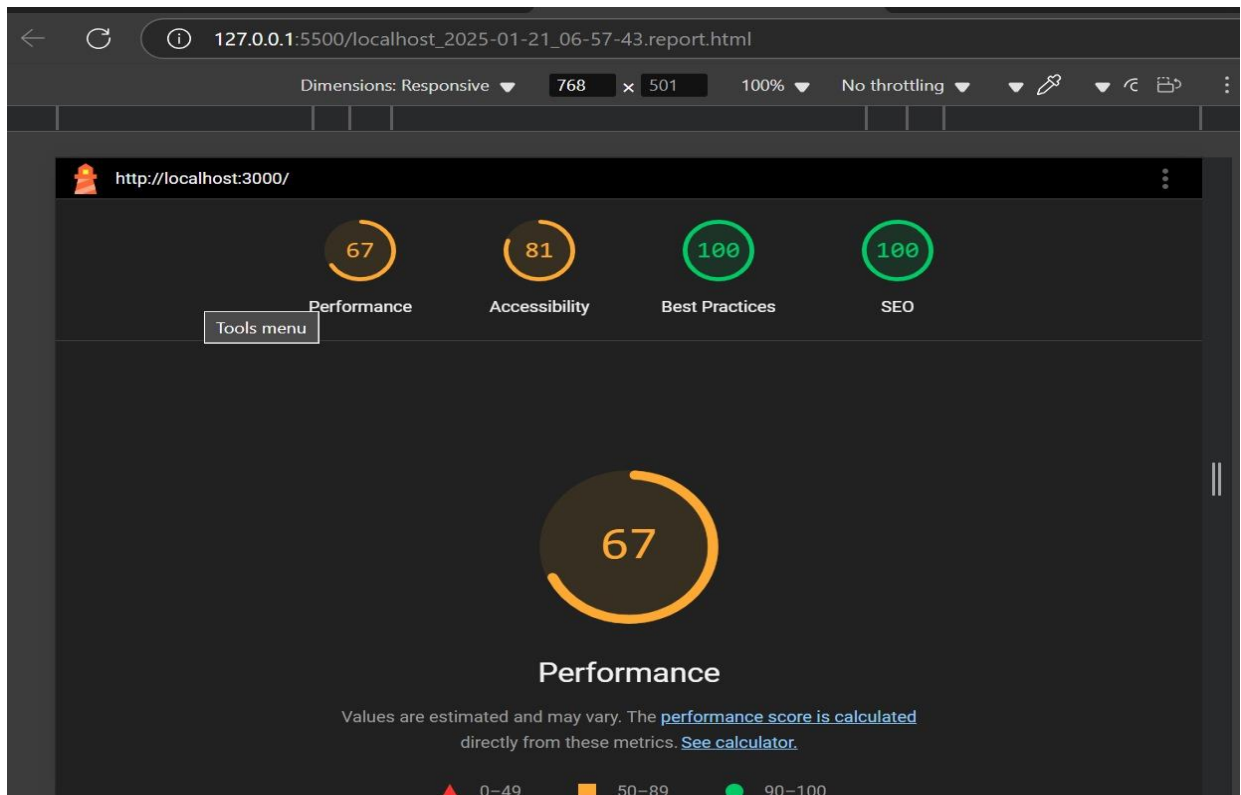
- **Shipment Tracking API Through GET Method**

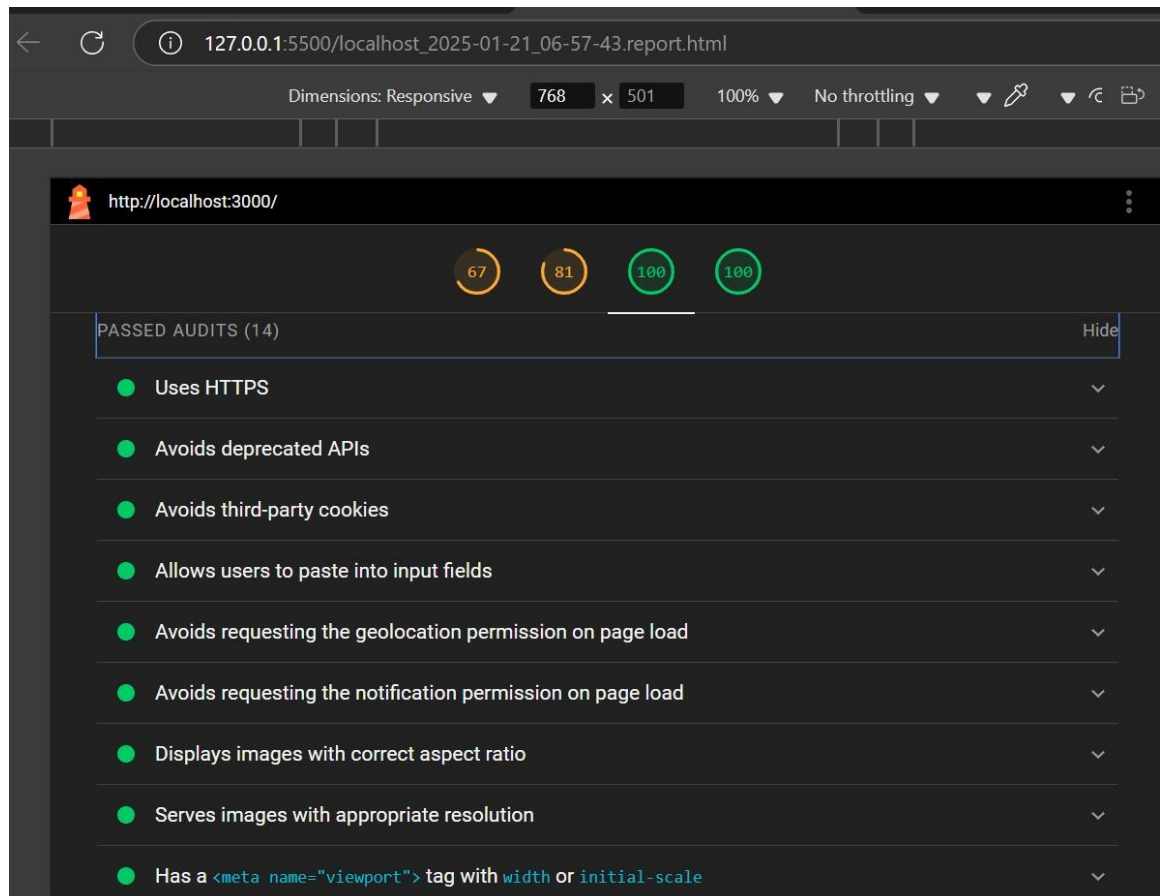
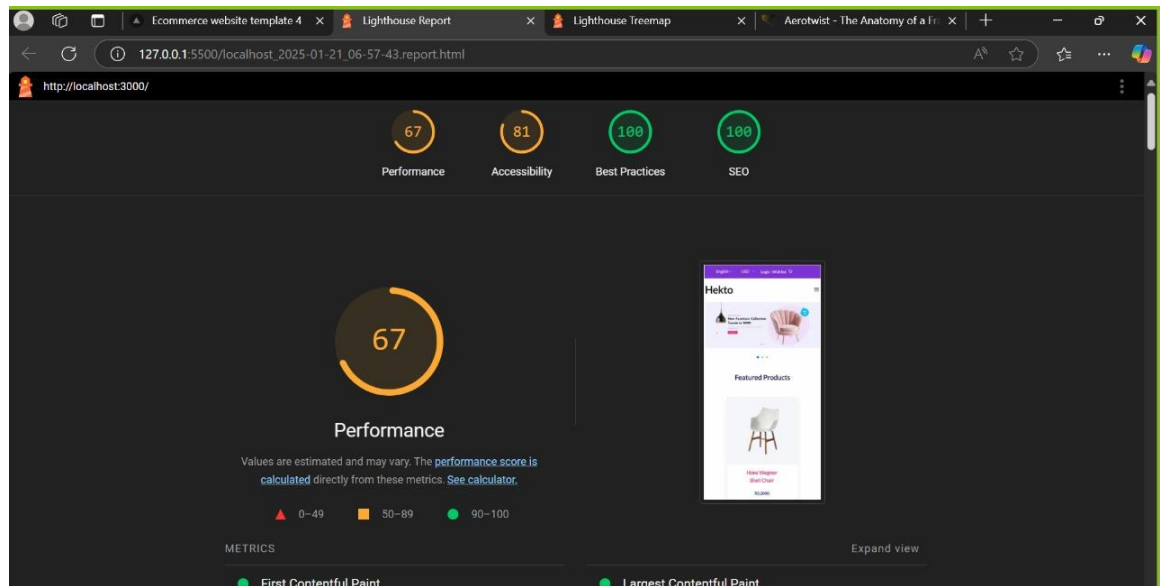




Get Response Status 200

Step 4 : Testing through Lighthouse :





Step 5 : Testing Report (CSV Format) :

Test Case ID	Test Case Description	Test Steps	Expected Result	Actual Result	Status	Severity Level	Assigned To	Remarks
TC001	Validate product listing page	Open product page > Verify products	Products displayed correctly	Products displayed correctly	Passed	Medium	Sir Ameen	No issues found
TC002	Test API error handling	Disconnect API > Refresh page	Show fallback UI with error message	Error message shown	Passed	High	Sir Ameen	Handled gracefully
TC003	Check cart functionality	Add product to cart > Verify cart contents	Cart updates with added product	Cart updates as expected	Passed	High	Sir Ameen	Works as expected
TC004	Ensure responsiveness on mobile	Resize browser window > Check layout	Layout adjusts properly to screen size	Responsive layout working as intended	Passed	High	Sir Ameen	Test successful

Checklist for Day 5 :

Functional Testing:

- ✓

Error Handling:

- ✓

Performance Optimization:

- ✓

Cross-Browser and Device Testing:

- ✓

Security Testing:

- ✓

Documentation:

- ✓

Final Review:

- ✓