

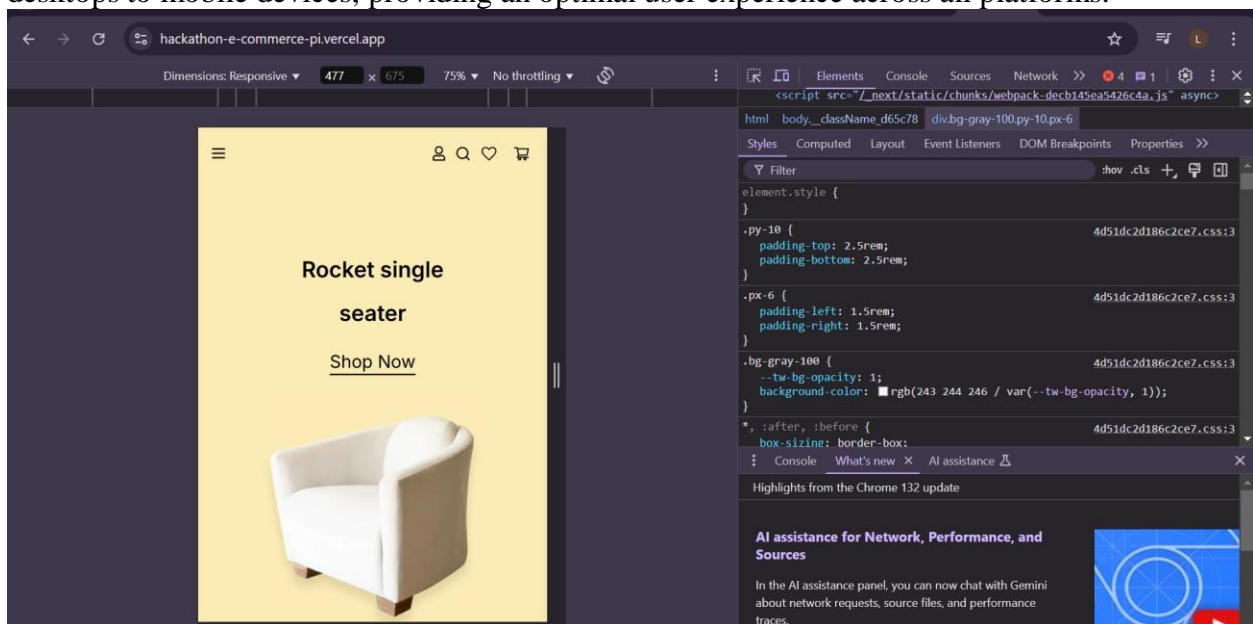
Day 5 - Testing, Error Handling, and Backend Integration Refinement

Overview

My website is built with **Next.js** and **Tailwind CSS**, ensuring a **fully responsive** design that adapts smoothly to all screen sizes. Functional testing covers **navigation**, **forms**, **responsiveness**, **API data handling**, and **data sanity**. The data is **properly fetched and accurately displayed**. Any issues found during testing were documented and fixed.

Responsive Design

My website is **fully responsive**, ensuring it adapts seamlessly to different screen sizes, from desktops to mobile devices, providing an optimal user experience across all platforms.



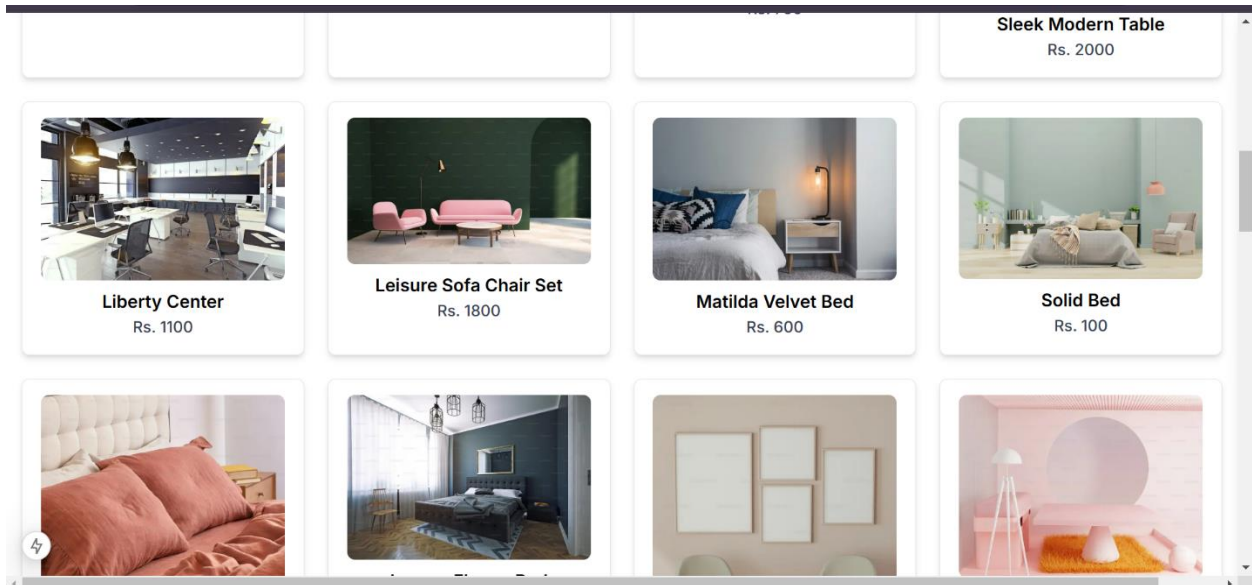
API Functionality

The **API is fully functional**, ensuring smooth data fetching and accurate display of information across the website. All API calls are working as expected, providing real-time data updates without any issues.

Error Handling – API

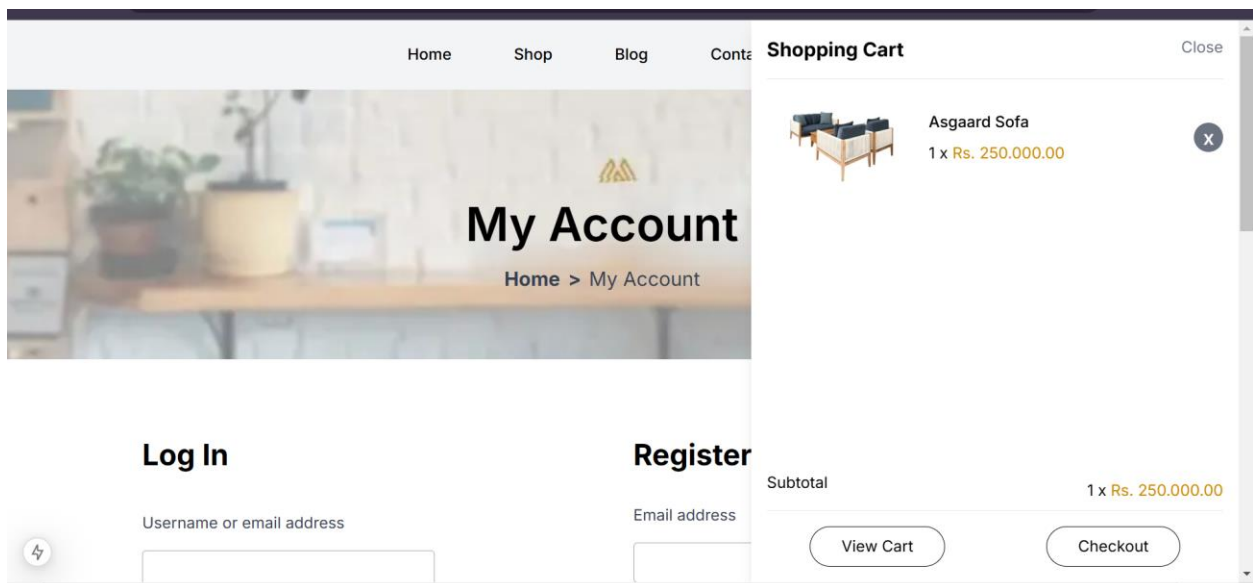
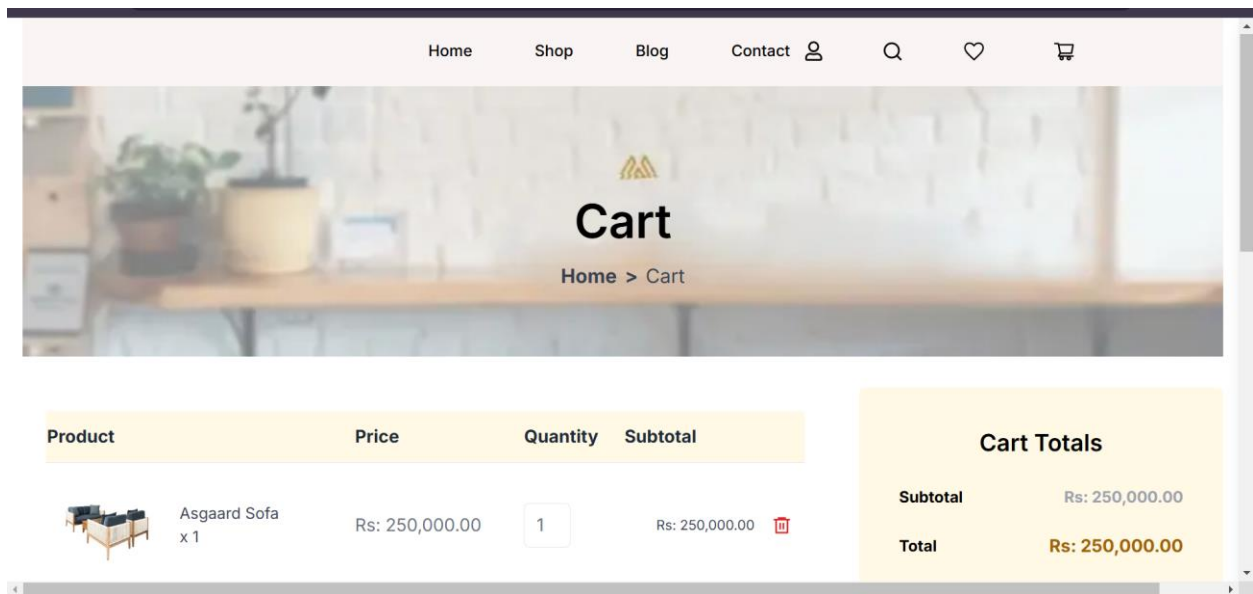
The API is working properly. This error is being investigated, and the image will be properly fetched and displayed once the

issue is resolved.



Functional Testing – Add to Cart Page

The **Add to Cart** functionality is currently **in progress**, and I am actively working on its implementation. The main focus is to ensure that items are **added, updated, and removed** correctly in the cart while maintaining **data accuracy**. Functional testing will cover **button actions, quantity updates, price calculations, and persistence** across sessions. My goal is to make the website fully functional as soon as possible.



Functional Testing – My Account Login Page

The **Login functionality** works **smoothly**, with focus on **correct username and password handling**. Testing includes ensuring the "**remember me**" feature works properly, allowing users to securely access their accounts. The rest of the functionality is still **in progress**.

My Account

Home > My Account

Log In

Username or email address

Password

☒ Remember me

Register

Email address

A link to set a new password will be sent to your email address.

Your personal data will be used to support your experience throughout this website, to manage access to your account, and for other purposes described in our

Functional Testing – Checkout Page

The **Checkout** functionality is currently **in progress**, focusing on **order processing, payment handling, and data accuracy**. Testing ensures that transactions are smooth, prices are correctly calculated, and user details are securely processed.

Billing Details

First Name Last Name

Company Name (Optional)

Country / Region

Street Address

Product	Subtotal
Asgaard Sofa x 1	Rs: 250,000.00
Subtotal	Rs: 250,000.00
Total	Rs: 250,000.00

☐ Direct Bank Transfer

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aliquam at arcu at eros malesuada facilisis.

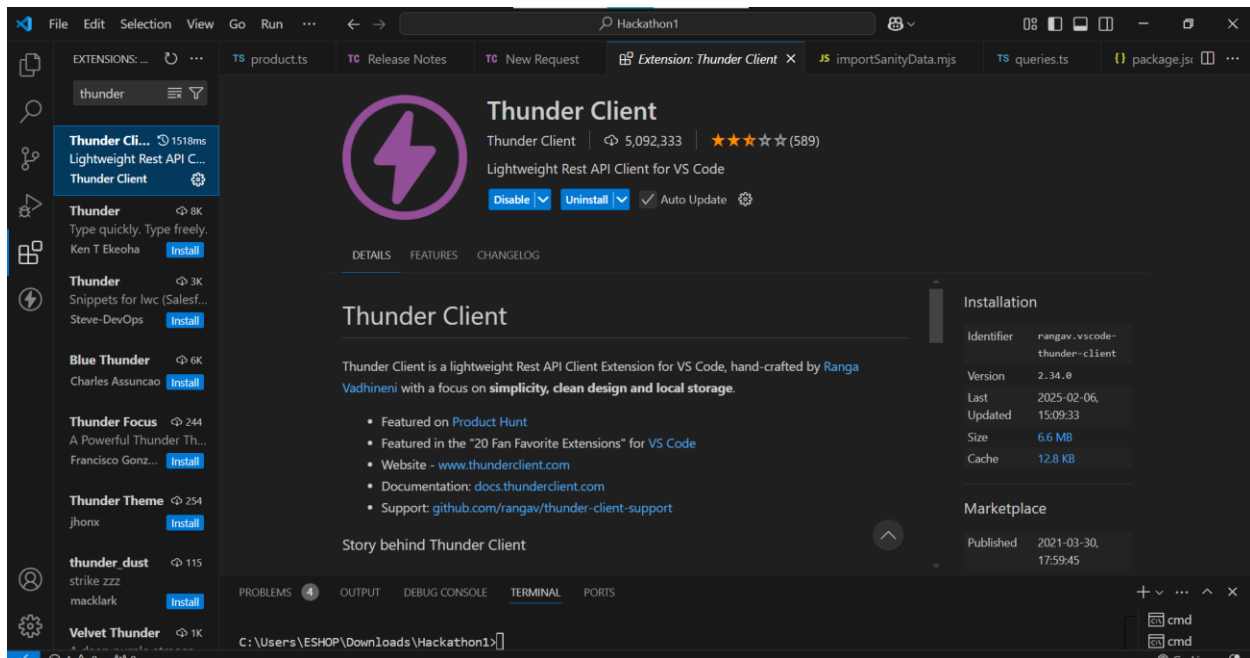
☐ Cash On Delivery

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aliquam at arcu at eros malesuada facilisis.

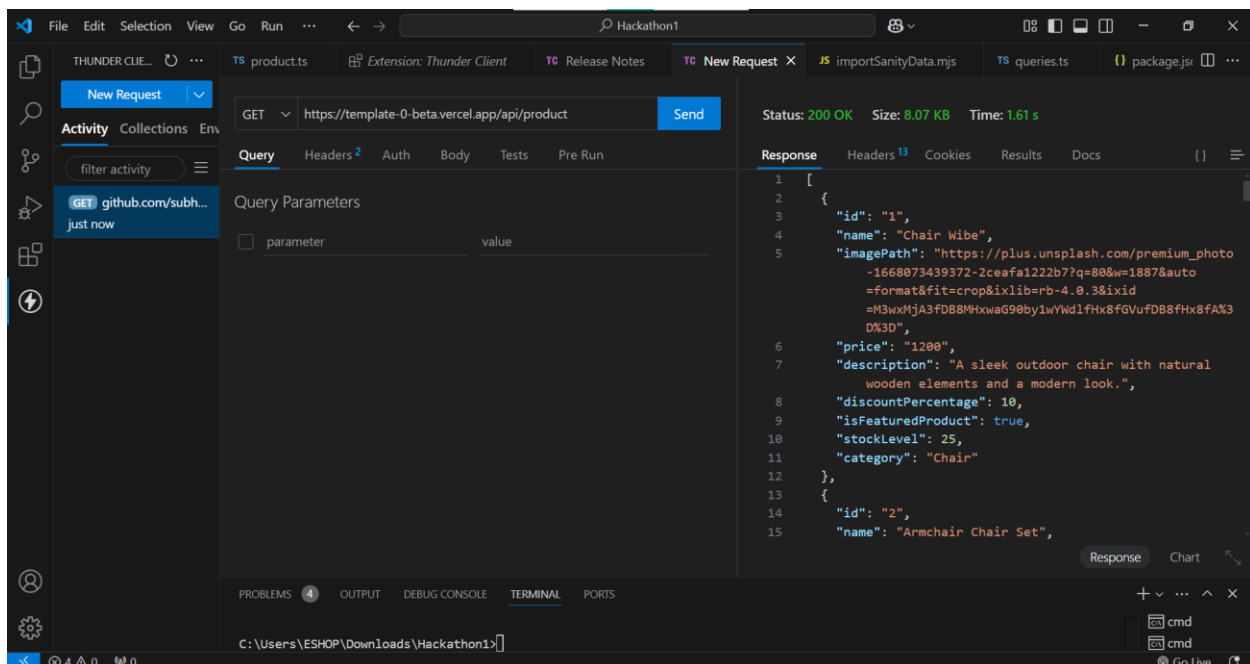
Place Order

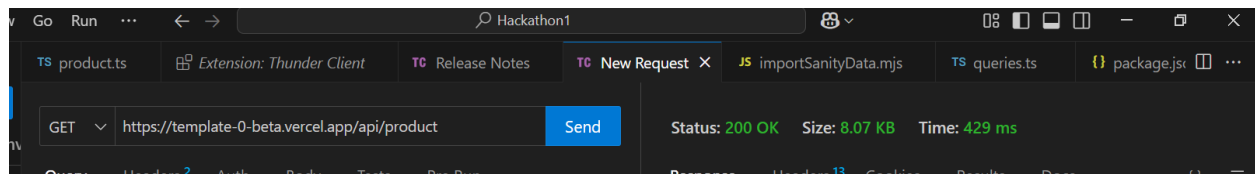
Successfully Installed Thunder Client

Thunder Client has been successfully installed and is ready for use. You can now use it to make API requests, including testing the Sanity API for creating or updating your product documents.



Status





CSV Report

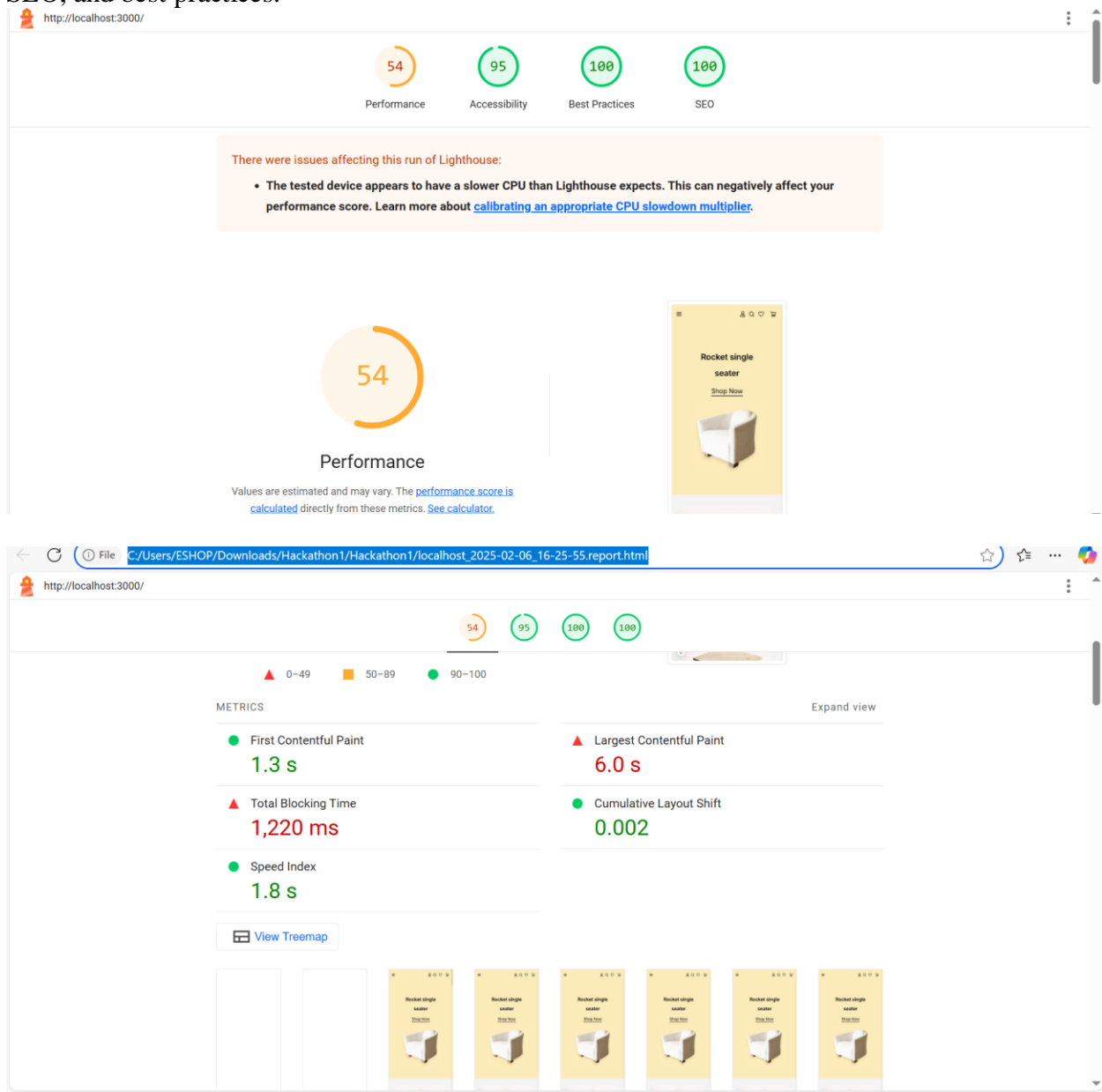
Test Case ID	Test Case Description	Test Steps	Expected Result	Actual Result	Status	Severity Level	Assigned To	Remarks	
2	TC001	Validate product listing page	Open product page > Verify products	Products displayed correctly	Products displayed correctly	Passed	high	-	No issues found
3	TC002	Test API error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

Performance Optimization Using Lighthouse

To analyze and optimize the performance of your web application, you can use **Lighthouse**, a powerful tool provided by Google. It helps identify issues related to performance, accessibility,

lighthouse `http://localhost:3000 --view`

SEO, and best practices.



Browser tabs: New tab, Lighthouse Report

File: C:/Users/ESHOP/Downloads/Hackathon1/Hackathon1/localhost_2025-02-06_16-25-55.report.html

http://localhost:3000/

54 95 100 100

DIAGNOSTICS

- ▲ Reduce JavaScript execution time — 2.4 s
- ▲ Minimize main-thread work — 4.2 s
- ▲ Largest Contentful Paint element — 5,960 ms
- ▲ Minify JavaScript — Potential savings of 313 KiB
- ▲ Largest Contentful Paint image was lazily loaded
- ▲ Reduce unused JavaScript — Potential savings of 952 KiB
- ▲ Page prevented back/forward cache restoration — 3 failure reasons
- Eliminate render-blocking resources — Potential savings of 0 ms
- Avoid serving legacy JavaScript to modern browsers — Potential savings of 0 KiB
- Avoid long main-thread tasks — 12 long tasks found
- Initial server response time was short — Root document took 420 ms

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http://localhost:3000/

54 95 100 100

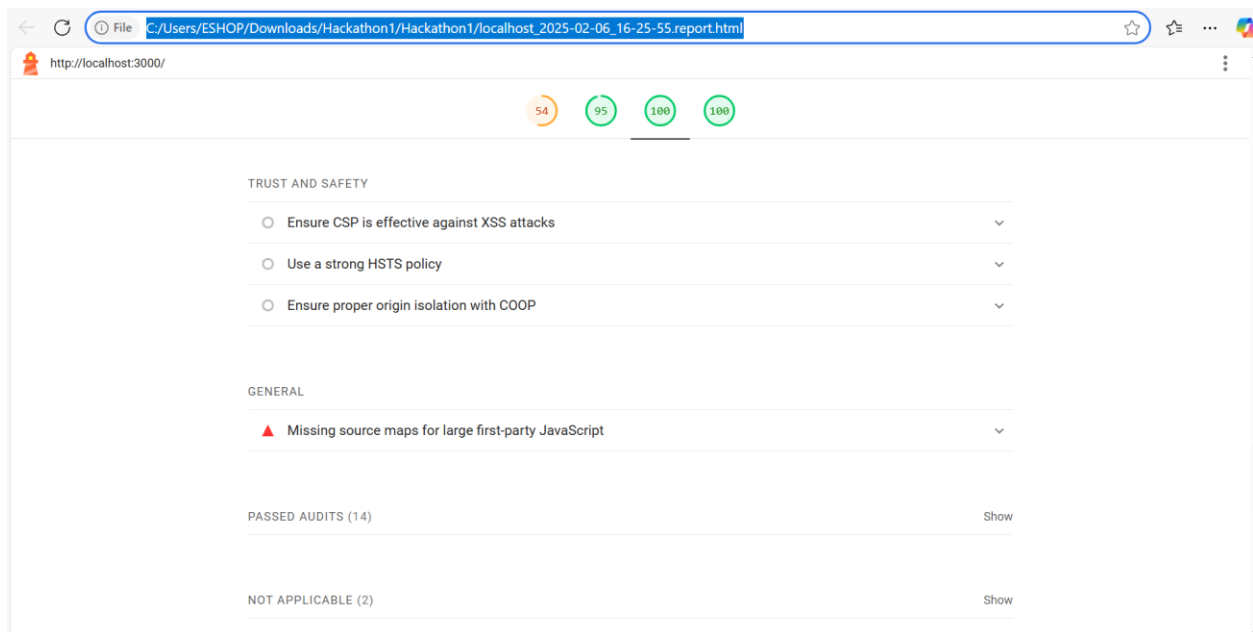
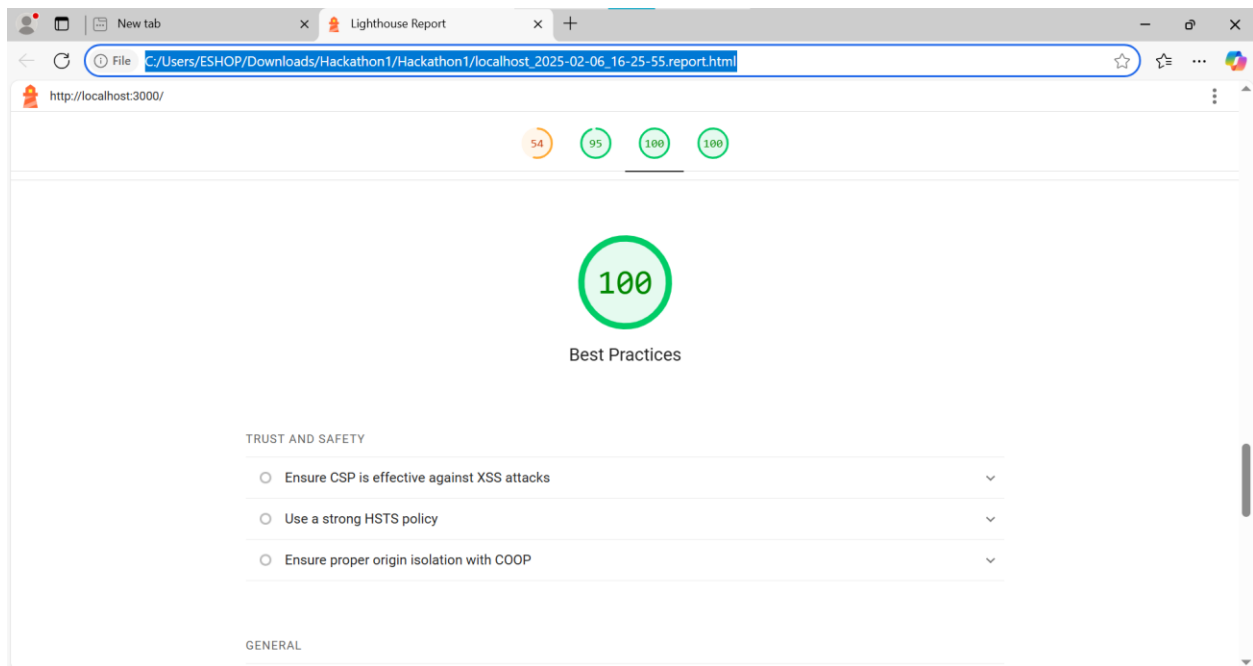
PASSED AUDITS (23) Show

95

Accessibility

These checks highlight opportunities to [improve the accessibility of your web app](#). Automatic detection can only detect a subset of issues and does not guarantee the accessibility of your web app, so [manual testing](#) is also encouraged.

CONTRAST



TRUST AND SAFETY

Ensure CSP is effective against XSS attacks

Use a strong HSTS policy

Ensure proper origin isolation with COOP

GENERAL

Missing source maps for large first-party JavaScript

PASSED AUDITS (14)

Show

NOT APPLICABLE (2)

Show

100

SEO

These checks ensure that your page is following basic search engine optimization advice. There are many additional factors Lighthouse does not score here that may affect your search ranking, including performance on [Core Web Vitals](#). [Learn more about Google Search Essentials](#).

ADDITIONAL ITEMS TO MANUALLY CHECK (1)

Hide

Structured data is valid

Run these additional validators on your site to check additional SEO best practices.

PASSED AUDITS (8)

Show

NOT APPLICABLE (2)

Show

- Captured at Feb 6, 2025, 4:25 PM GMT+5
- Emulated Moto G Power with Lighthouse 12.3.0
- Single page session
- Initial page load
- Slow 4G throttling
- Using Chromium 132.0.0.0 with cli

Generated by **Lighthouse** 12.3.0 | [File an issue](#)

New tab

Lighthouse Report

+

C:/Users/ESHOP/Downloads/Hackathon1/Hackathon1/localhost_2025-02-06_16-25-55.report.html

http://localhost:3000/

54

95

100

100

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100

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Single page session

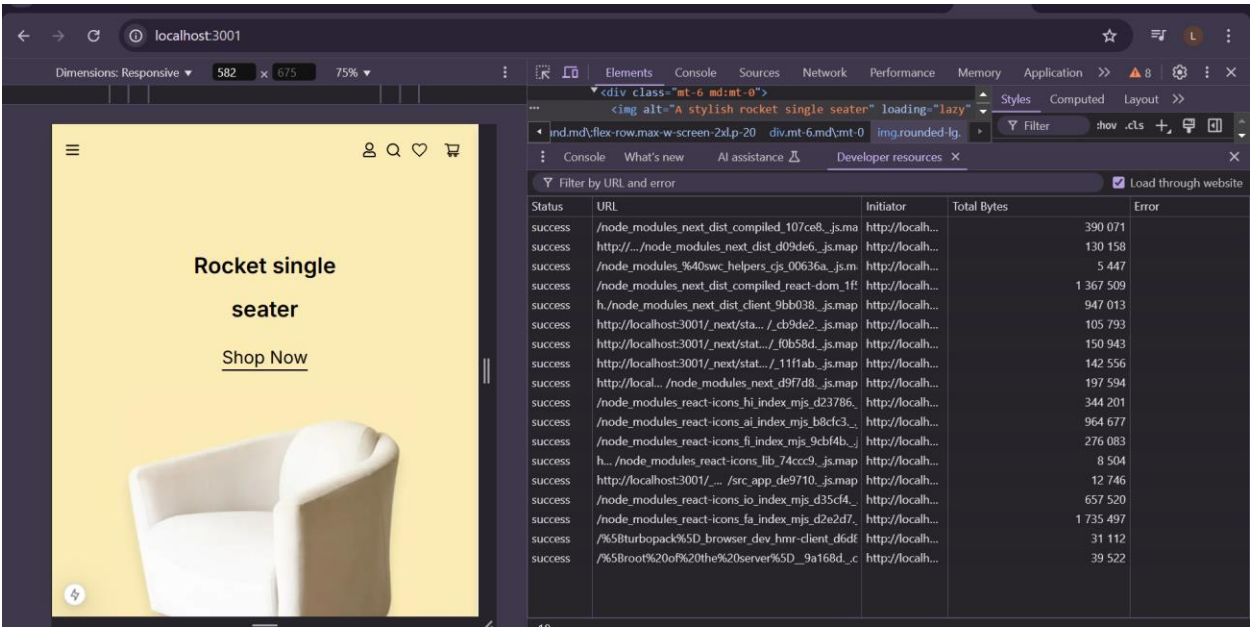
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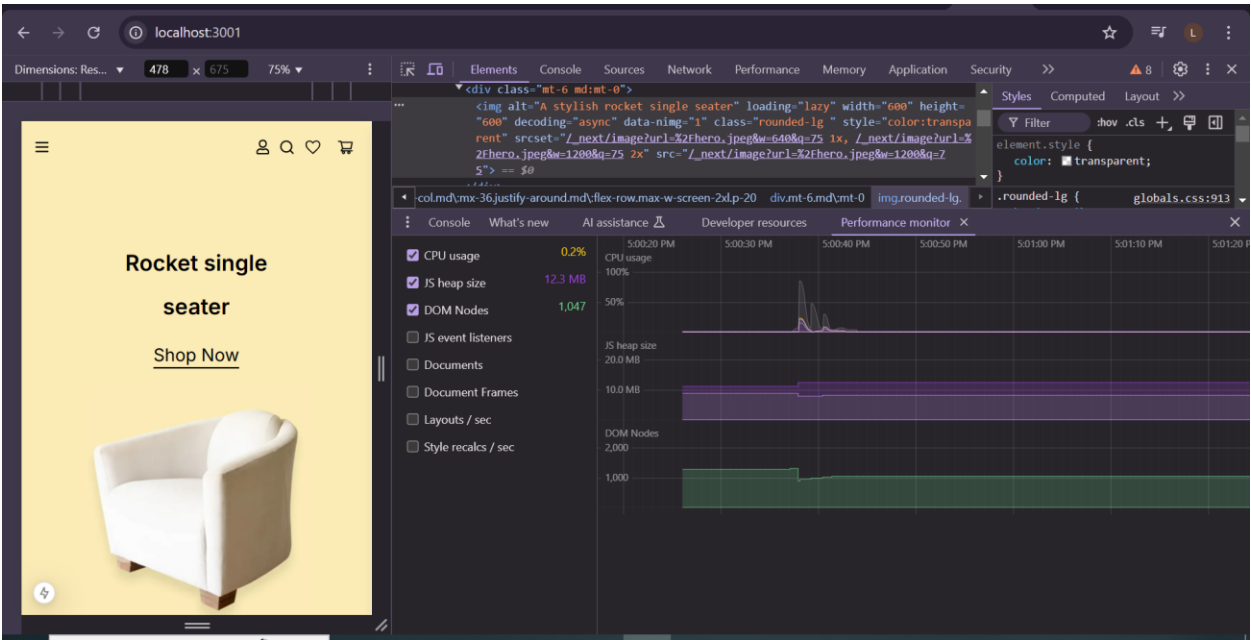
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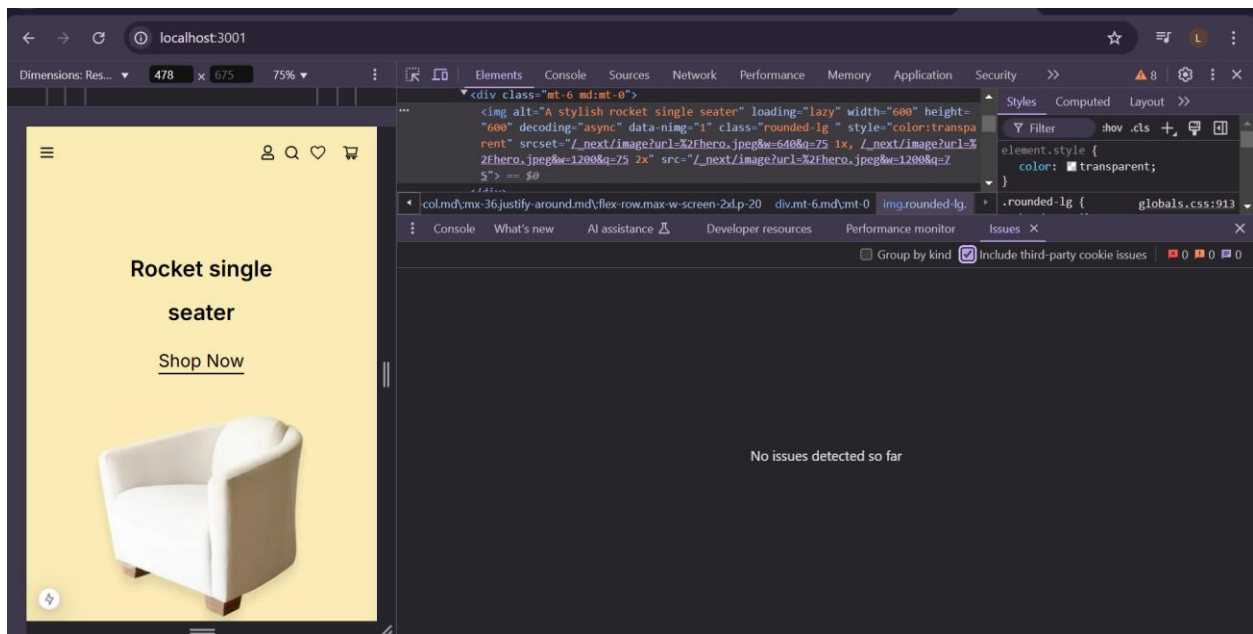
Developer Resources



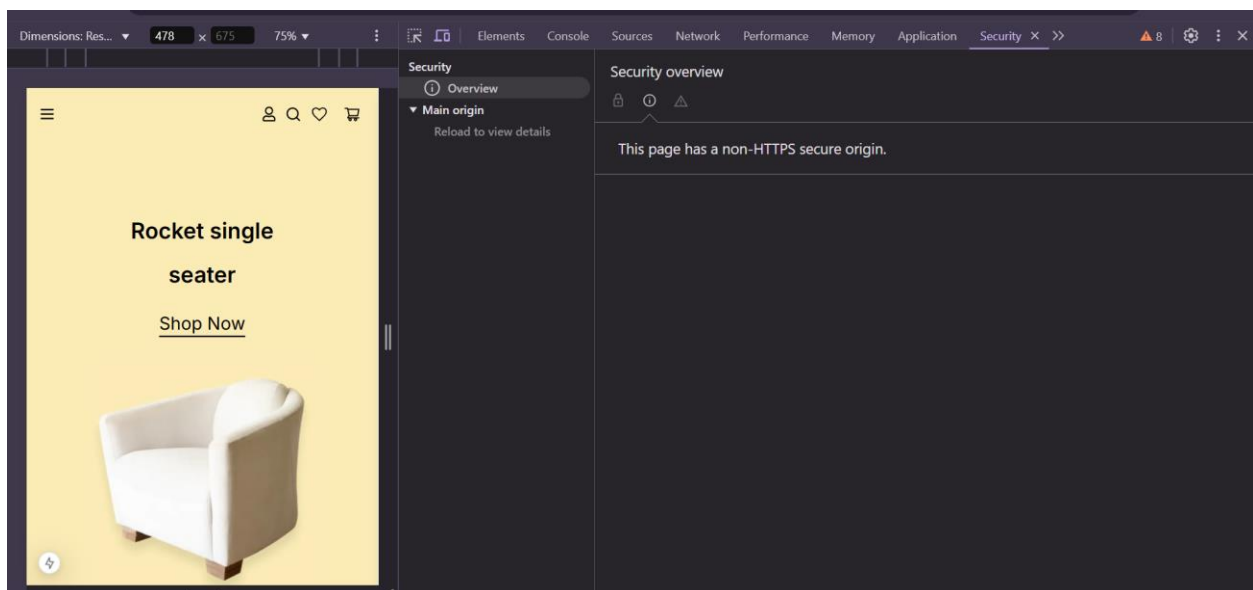
Performance Monitor



Issues



Security



Completed day 5