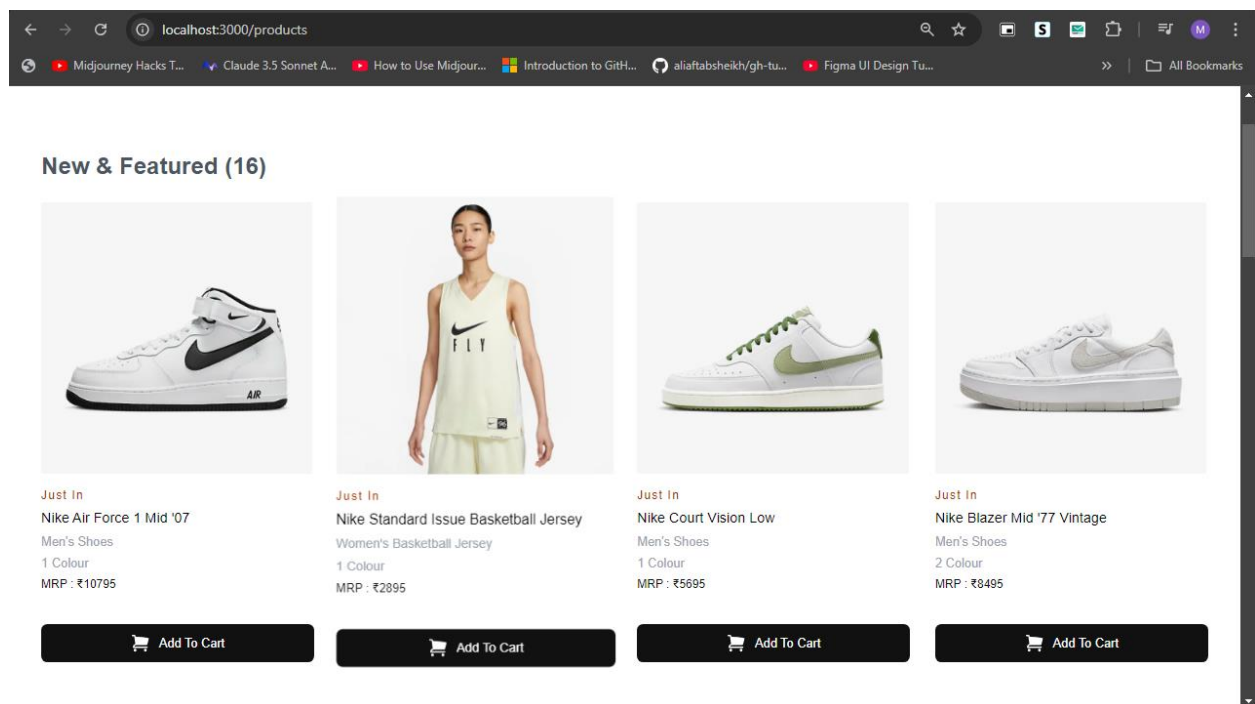# DAY 5 IMPLEMENTATION REPORT
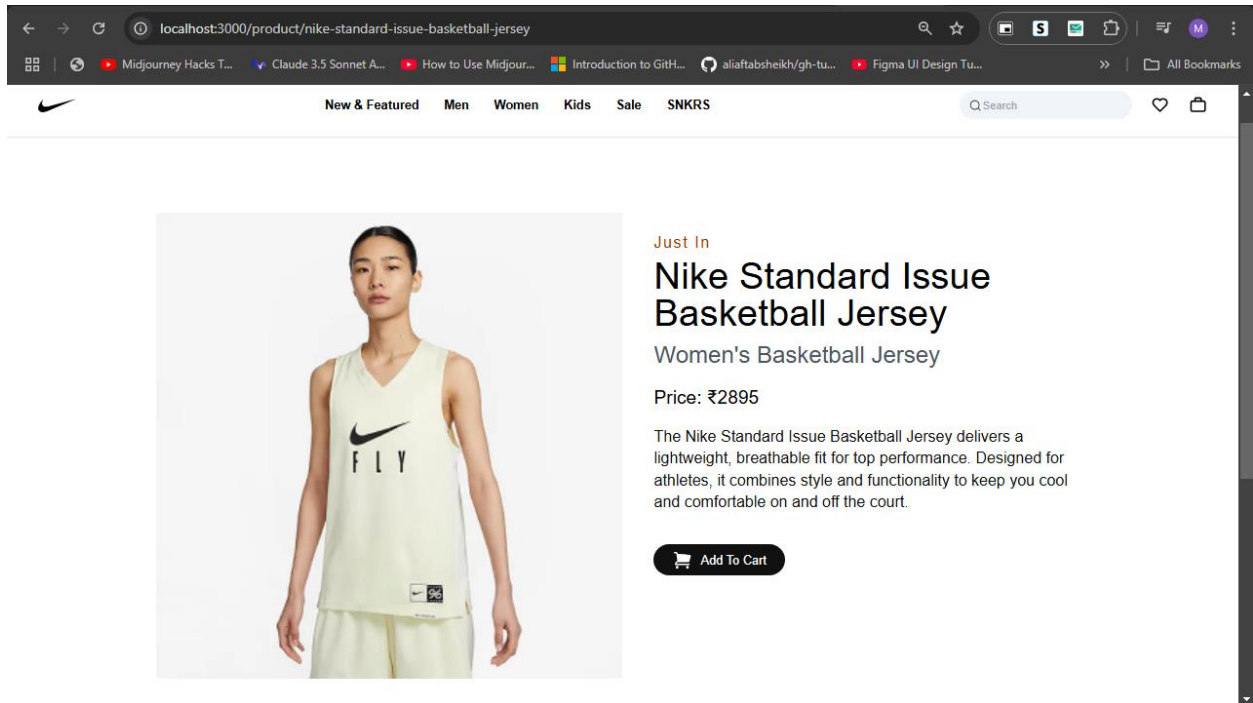
TESTING BACKEND REFINEMENT

Step 1: Functional Testing
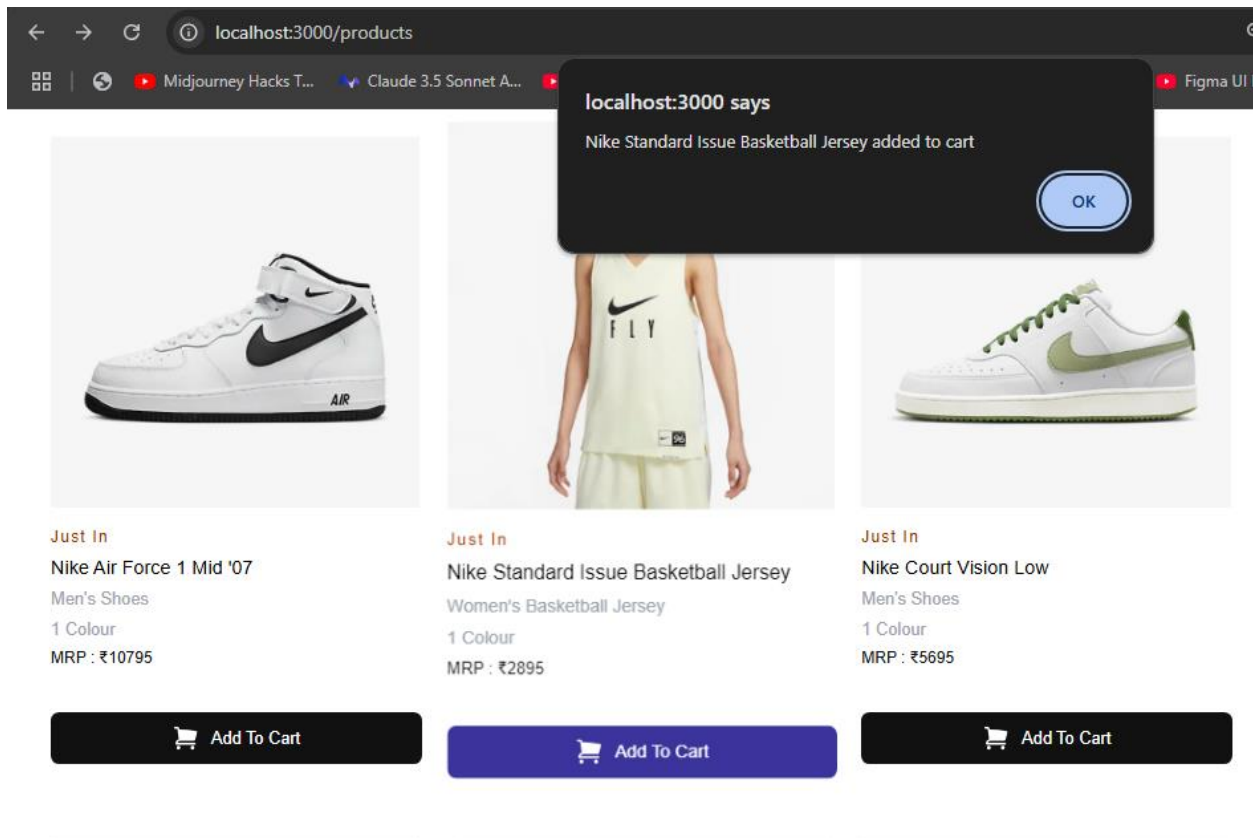
Products Functionality:

The website successfully **fetches and displays products** dynamically from the Sanity CMS. Each product is showcased with details such as name, price, category, status, and an image. Users can browse through the available products seamlessly.
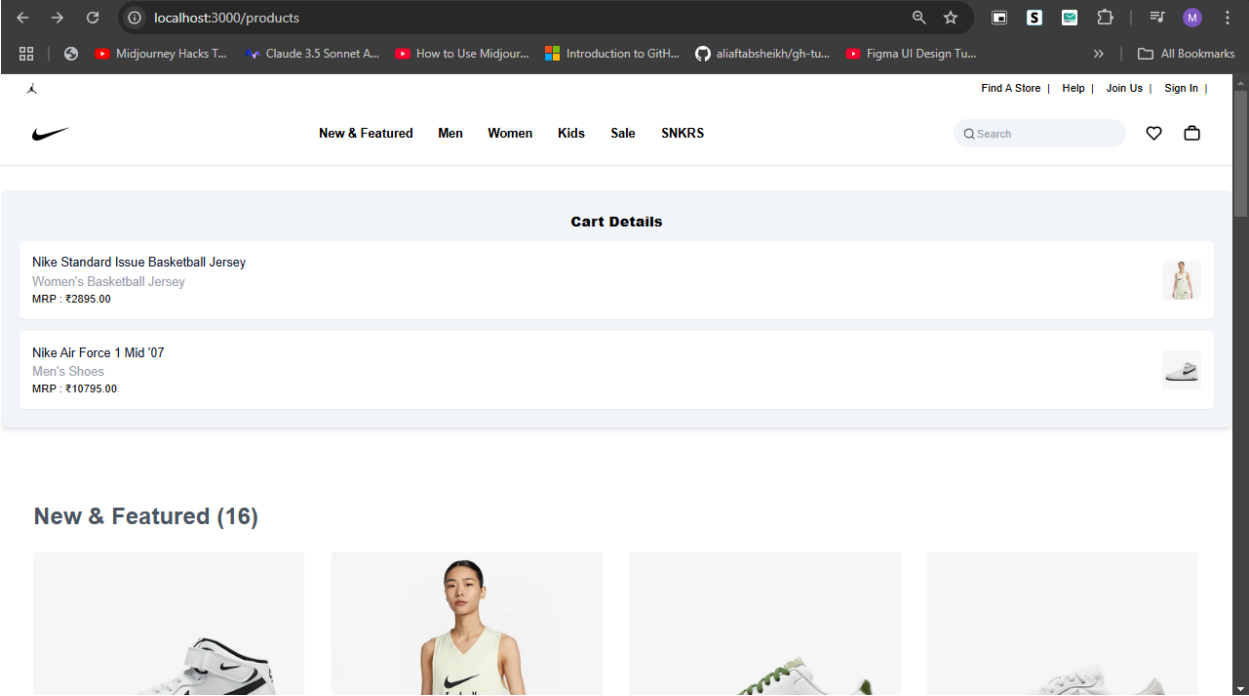
Q Search

Just In

Nike Standard Issue Basketball Jersey

Women's Basketball Jersey

Price: ₹2895

The Nike Standard Issue Basketball Jersey delivers a lightweight, breathable fit for top performance. Designed for athletes, it combines style and functionality to keep you cool and comfortable on and off the court.

Add To Cart

Cart Functionality:

The **Add to Cart** functionality works as expected. When a user clicks on the "Add to Cart" button for a product, the selected item is added to the cart, and the cart details are updated in real-time. This ensures a smooth user experience by allowing customers to review the products they intend to purchase directly in the cart.

Find A Store | Help | Join Us | Sign In |

New & Featured   Men   Women   Kids   Sale   SNKRS

Search

Cart Details

Nike Standard Issue Basketball Jersey
Women's Basketball Jersey
MRP : ₹2895.00

Nike Air Force 1 Mid '07
Men's Shoes
MRP : ₹10795.00
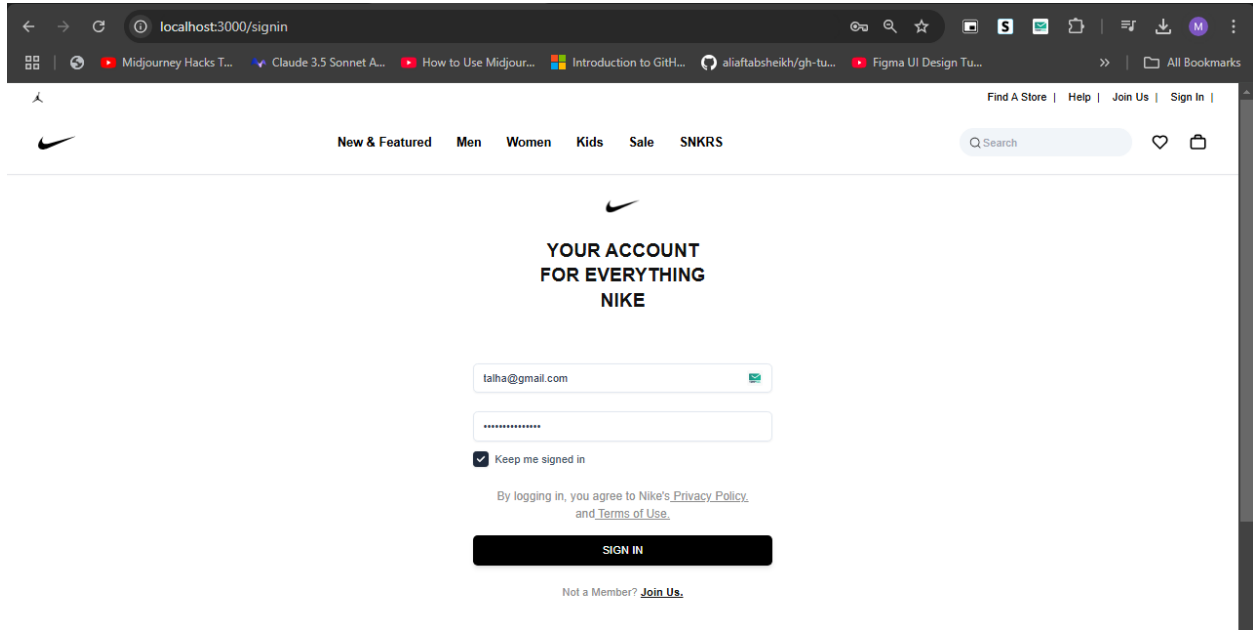
New & Featured (16)

Search Bar Functionality:

The website includes a **search bar** that enables users to find products quickly and efficiently. When a user types a query in the search bar, the product results dynamically update based on the input. The search functionality filters products by **name** and **category**, ensuring that users can easily locate items they are interested in. This feature enhances the user experience by providing relevant results in real-time.
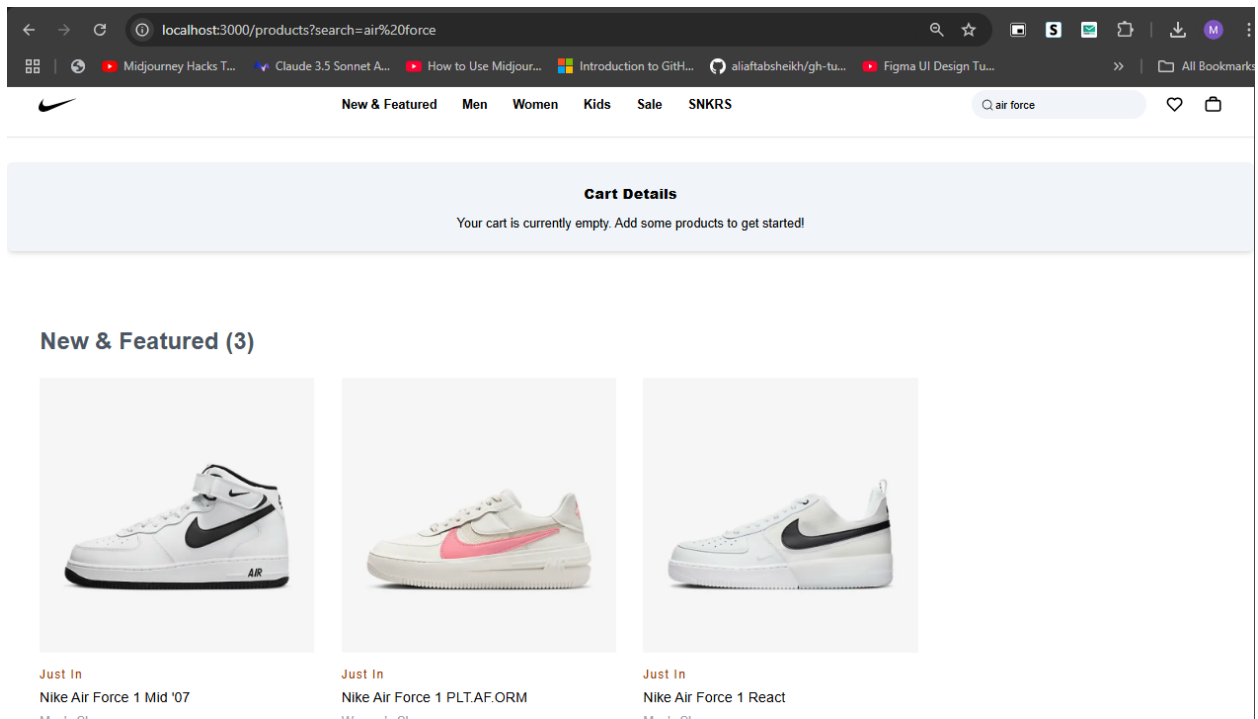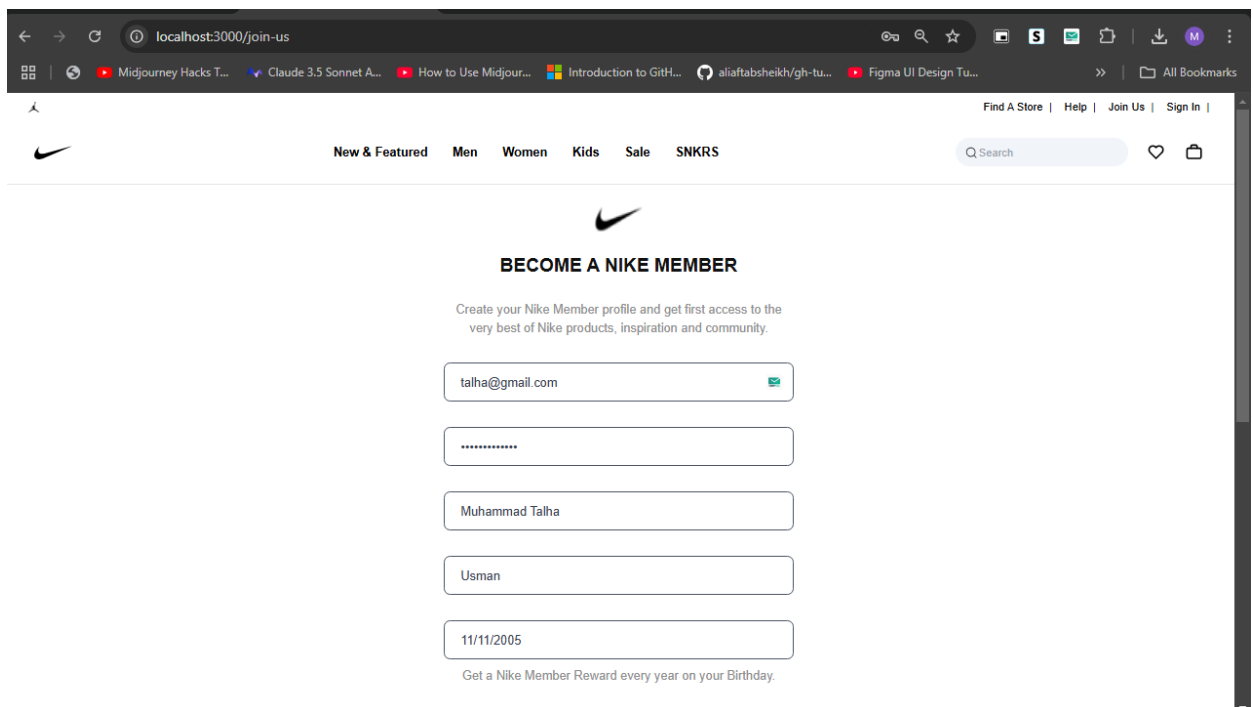
Sign in and Join Us Functionality:

Our website includes **Sign In** and **Join Us** pages to provide a seamless user experience. However, **user authentication** functionality is not currently implemented. We plan to learn and integrate user authentication systems, such as **OAuth**, **JWT**, or third-party authentication providers (e.g., Google or Facebook), after completing the hackathon.

This staged approach allows us to focus on core features during the hackathon while leaving advanced functionalities for future development.
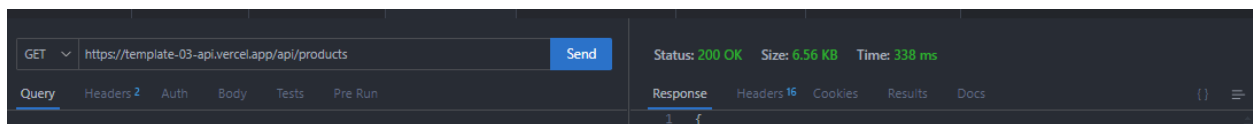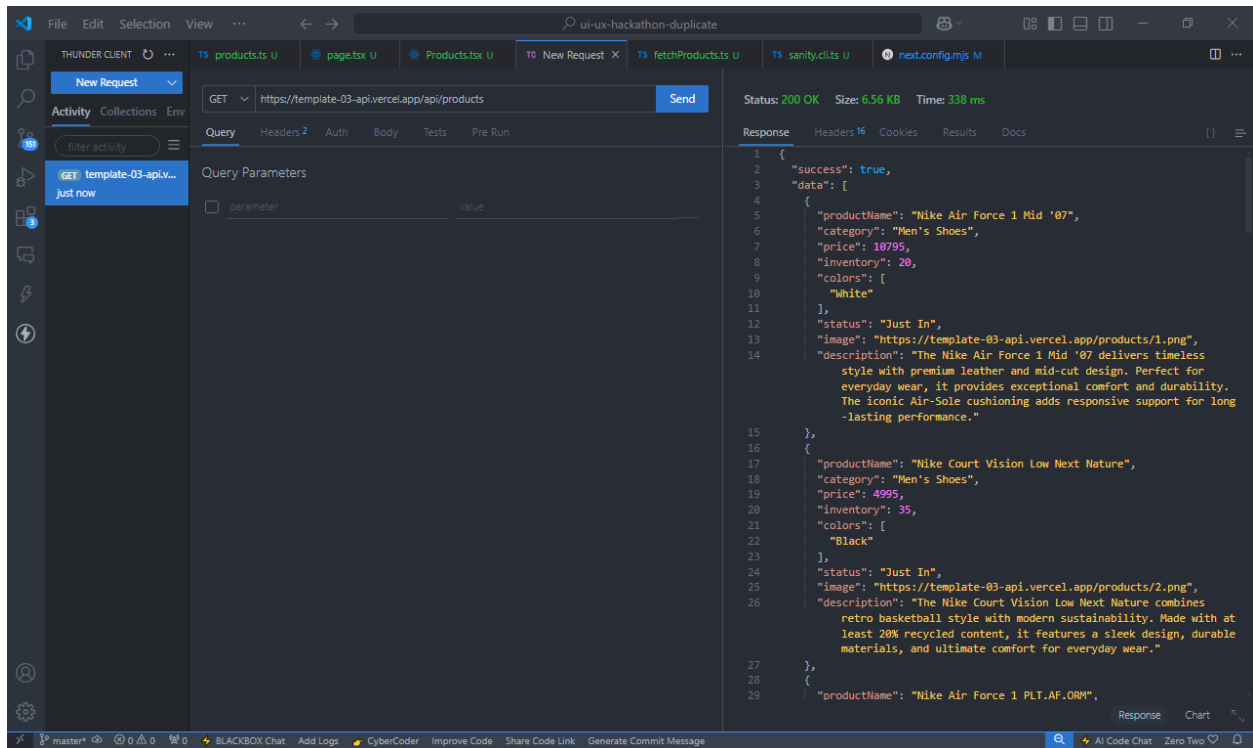
Step 2: Error Handling

Currently, the website's API is functioning correctly, and no errors have been encountered during testing.

Step 3: Thunder Client

| 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	High	-	No issues found
TC002	Test API error handling	Disconnect API > Refresh page	Show fallback UI with error message	Error message shown	Passed	High	-	Gracefully Handled
TC003	Check cart functionality	Add product to cart > Verify cart contents	Cart updates with added product	Cart updates as expected	Passed	High	-	No issues found
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

Step 4: Performance Optimization

## Lighthouse Report

Performance:

The performance score indicates that the website's loading speed need optimization. Enhancements such as image optimization, reducing unused JavaScript, and improving server response times will be implemented in the future to boost performance.
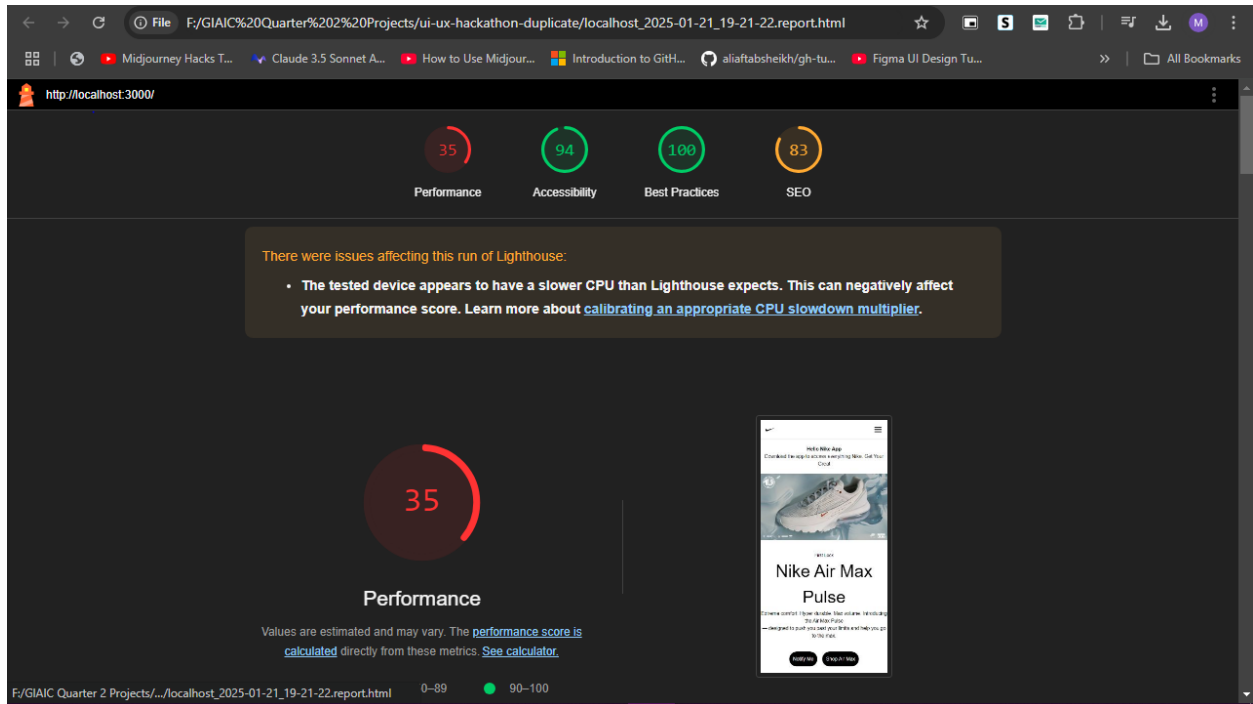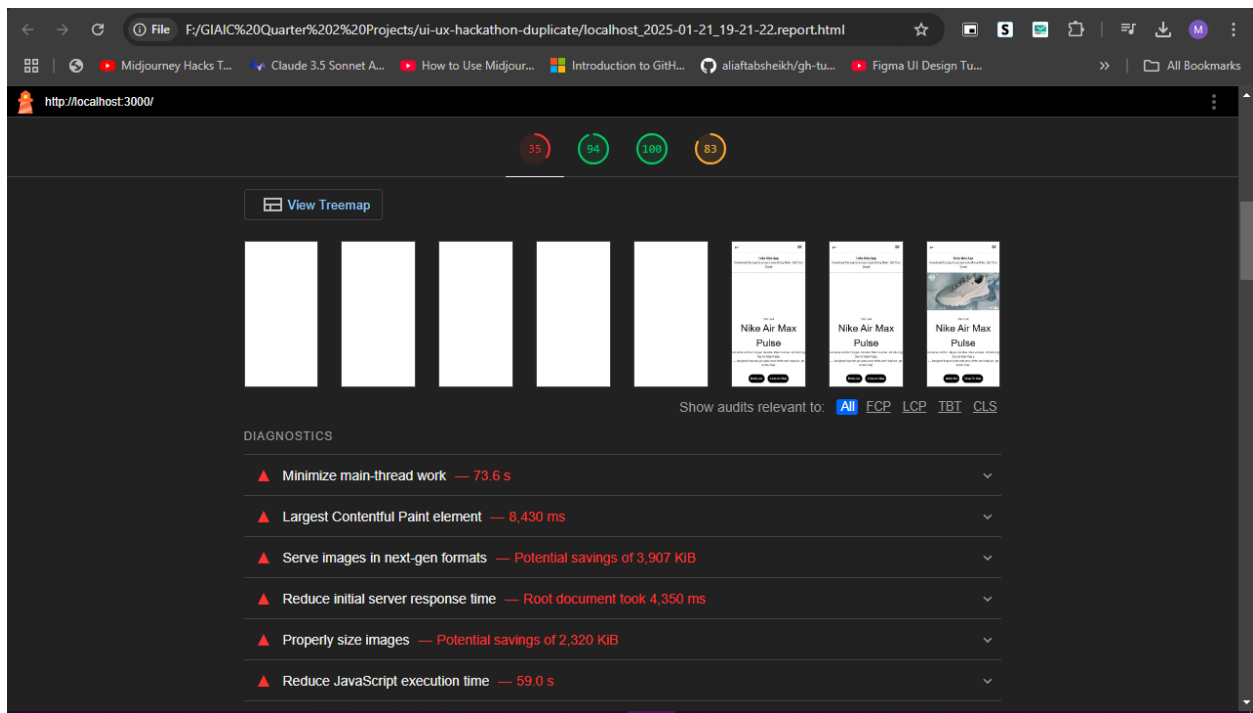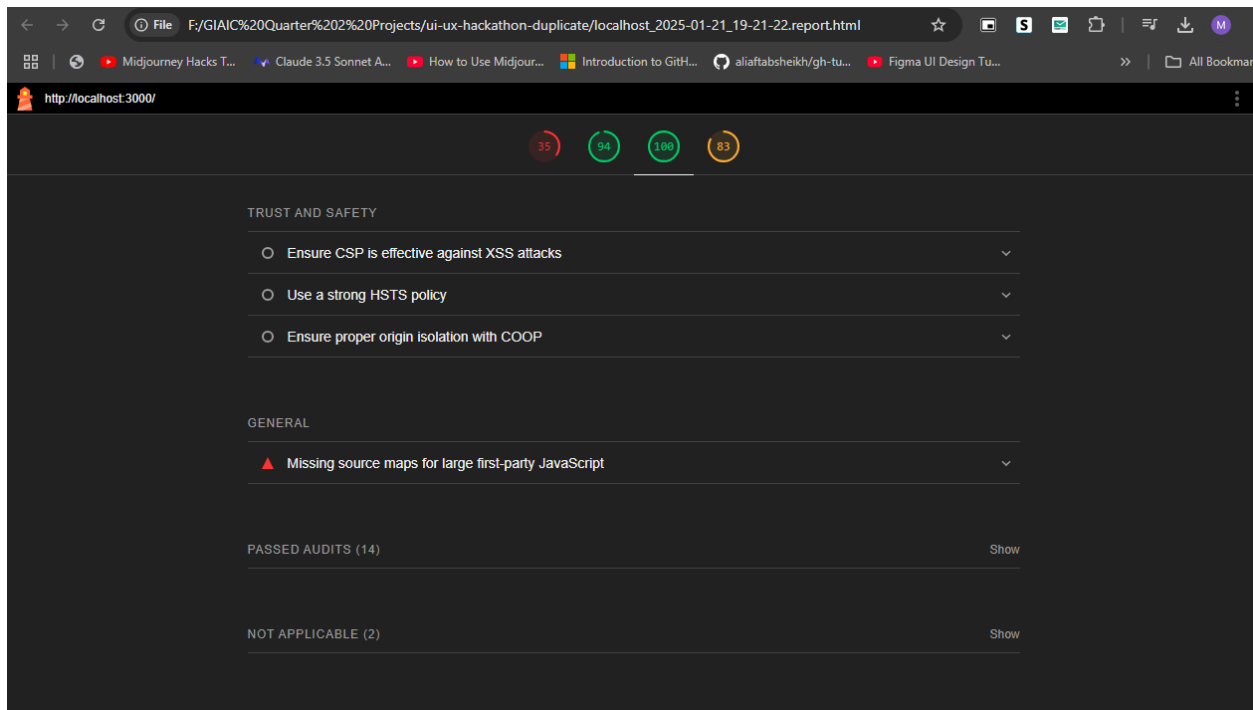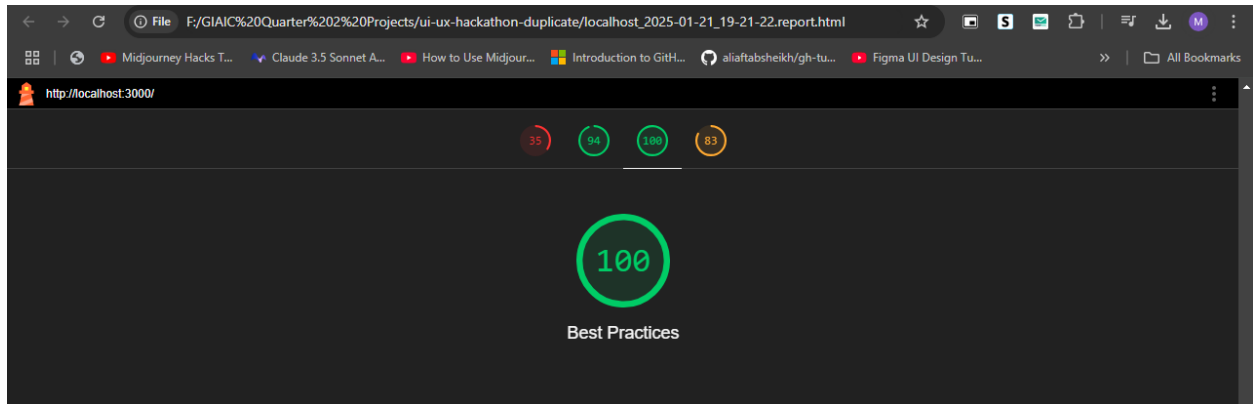
Accessibility:

The website is highly accessible, ensuring a smooth experience for users with diverse needs. It adheres to best practices for accessibility, such as proper semantic HTML and screen reader compatibility.
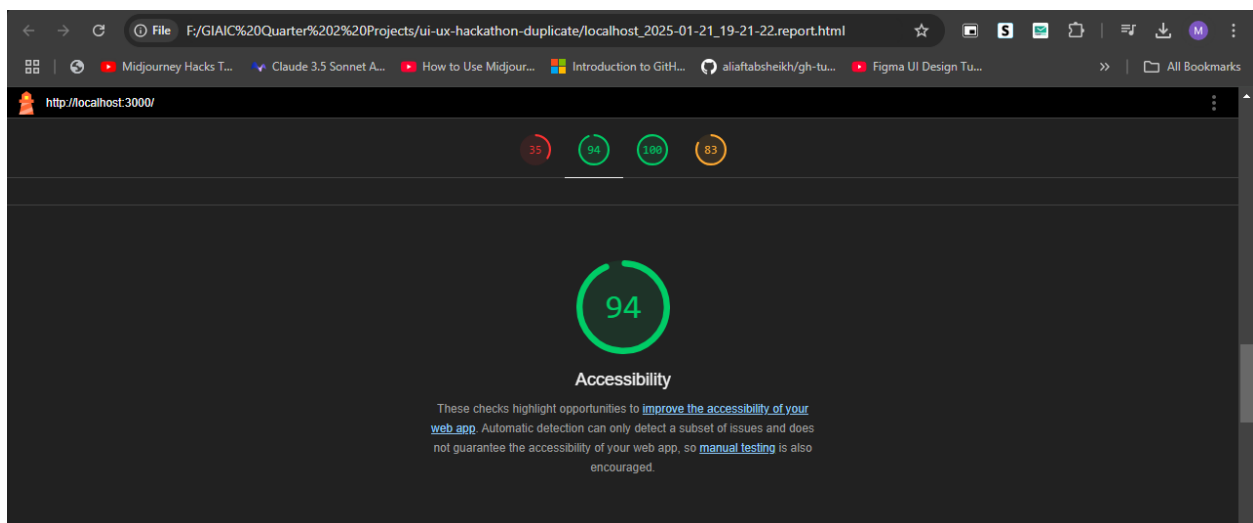
Best Practices:

The website follows all recommended best practices, ensuring robust coding standards and secure implementation.

Developer Resources

Performance Monitor

Security