

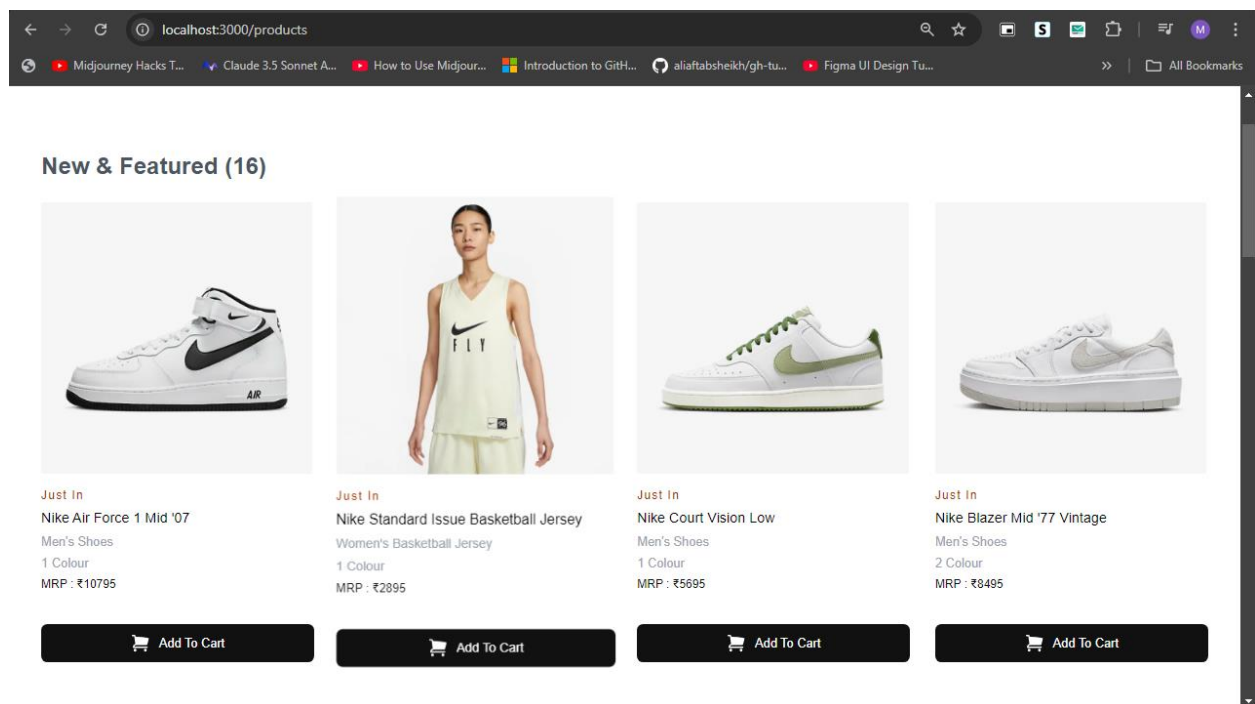
DAY 5 IMPLEMENTATION REPORT

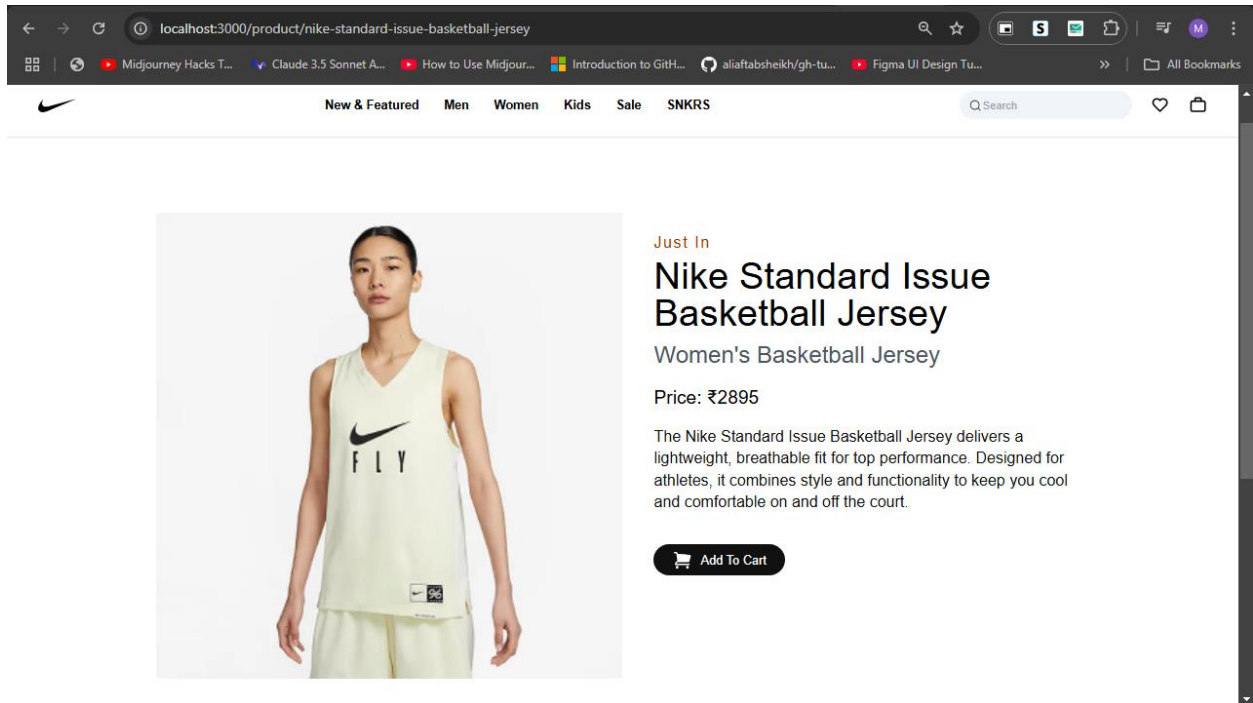
TESTING BACKEND REFINEMENT

Step 1: Functional Testing

Products Functionality:

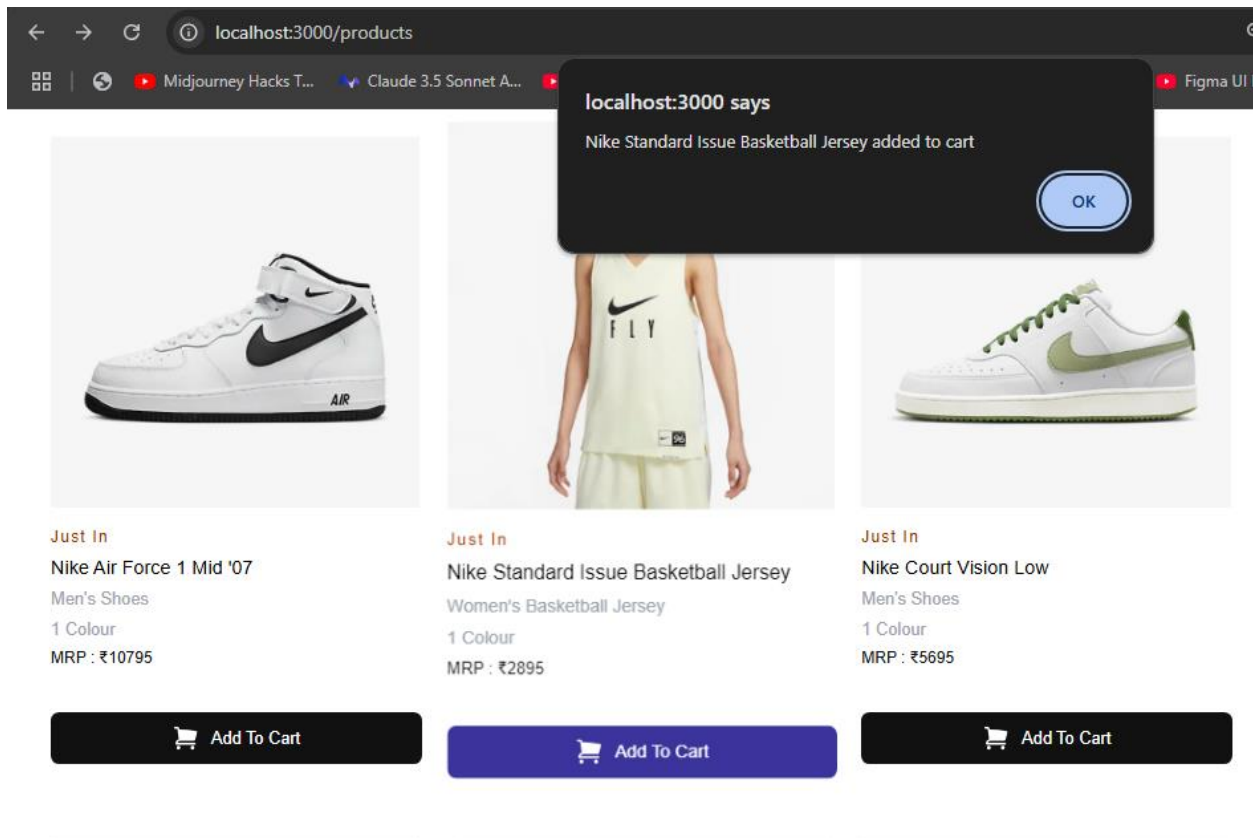
The website successfully **fetches and displays products** dynamically from the Sanity CMS. Each product is showcased with details such as name, price, category, status, and an image. Users can browse through the available products seamlessly.

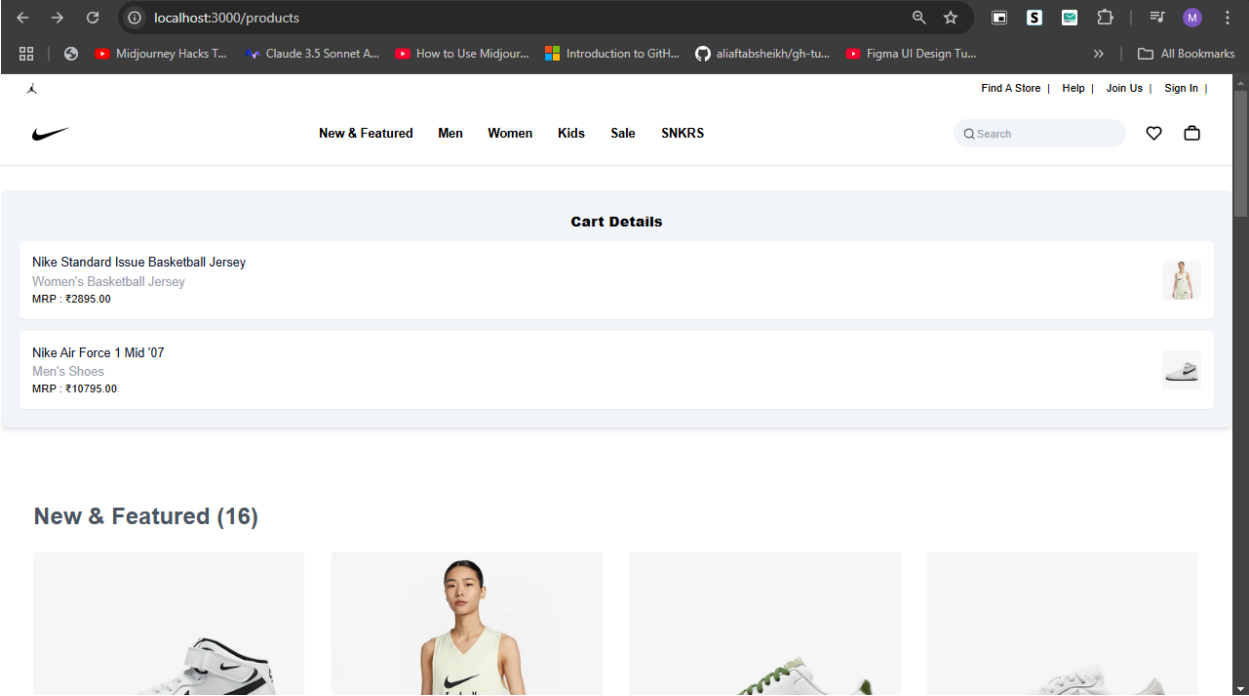




Cart Functionality:

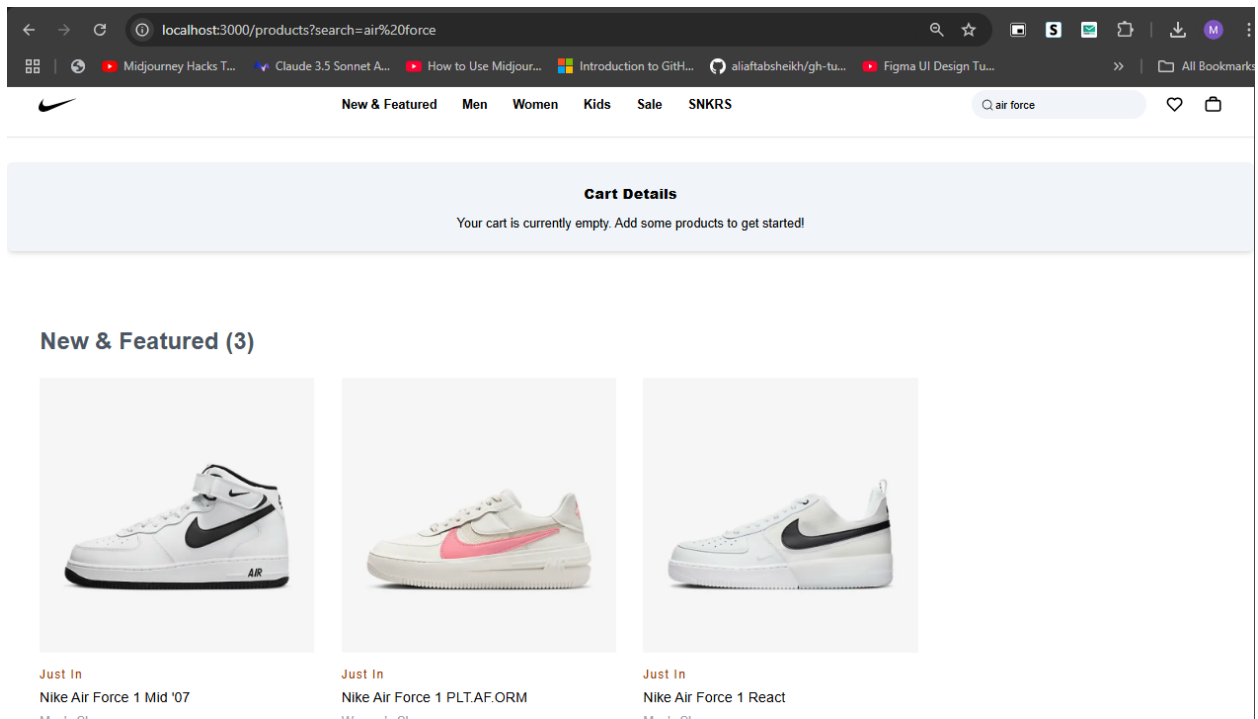
The **Add to Cart** functionality works as expected. When a user clicks on the "Add to Cart" button for a product, the selected item is added to the cart, and the cart details are updated in real-time. This ensures a smooth user experience by allowing customers to review the products they intend to purchase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





Search Bar Functionality:

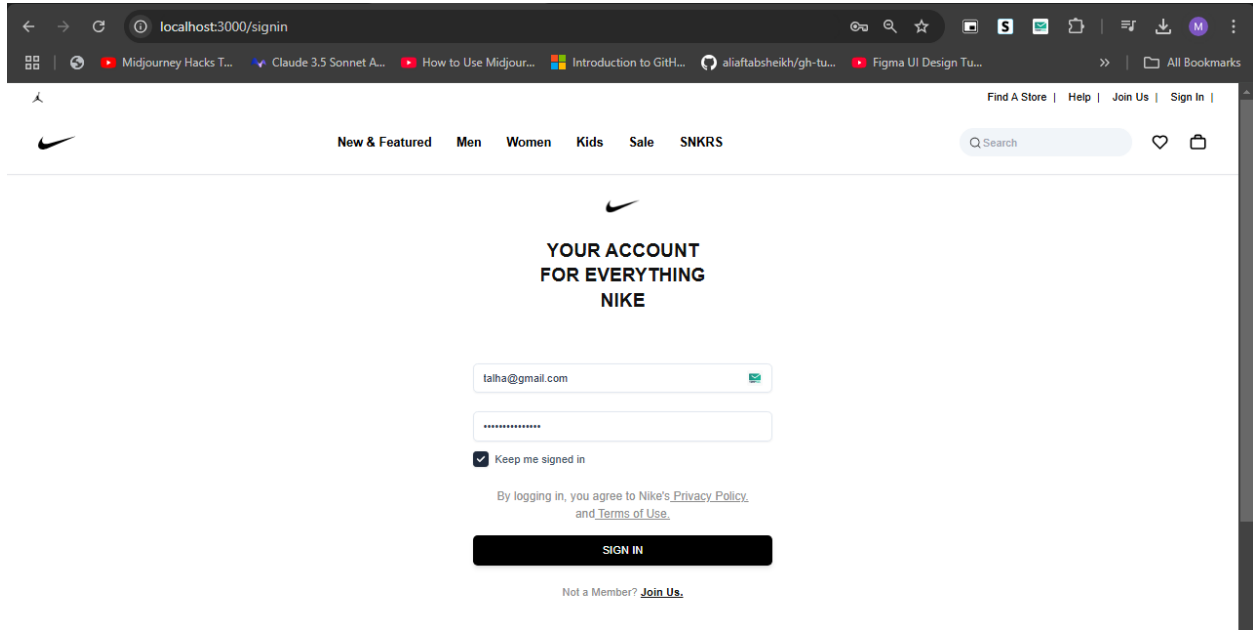
The website includes a **search bar** that enables users to find products quickly and efficiently. When a user types a query in the search bar, the product results dynamically update based on the input. The search functionality filters products by **name** and **category**, ensuring that users can easily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



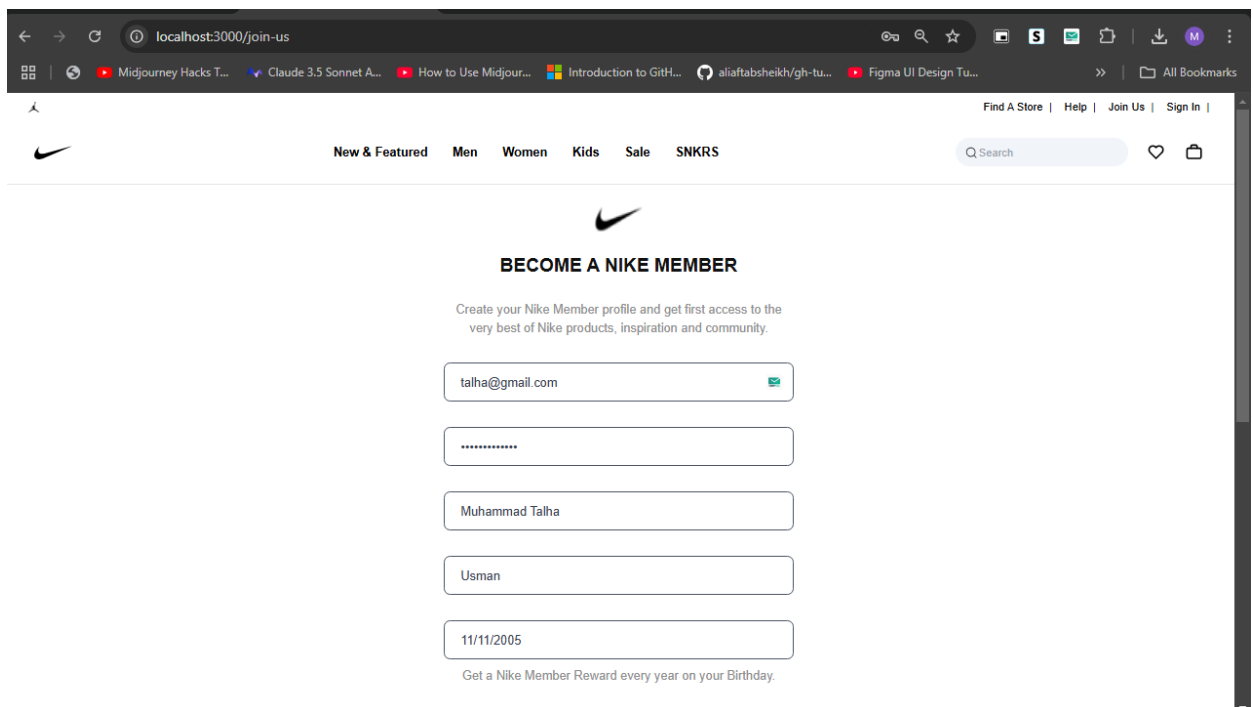
Sign in and Join Us Functionality:

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.



The screenshot shows the Nike Sign In page in a web browser. The browser's address bar displays 'localhost:3000/signin'. The page features the Nike logo at the top left, followed by navigation links: 'New & Featured', 'Men', 'Women', 'Kids', 'Sale', and 'SNKRS'. A search bar is located on the right. The main heading is 'YOUR ACCOUNT FOR EVERYTHING NIKE'. Below this, there is a form with an email input field containing 'talha@gmail.com', a password input field with masked characters, and a checked checkbox for 'Keep me signed in'. A link for 'Privacy Policy and Terms of Use' is provided. A black 'SIGN IN' button is at the bottom of the form. A footer link says 'Not a Member? [Join Us](#)'.



The screenshot shows the Nike Join Us page in a web browser. The browser's address bar displays 'localhost:3000/join-us'. The page features the Nike logo at the top left, followed by navigation links: 'New & Featured', 'Men', 'Women', 'Kids', 'Sale', and 'SNKRS'. A search bar is located on the right. The main heading is 'BECOME A NIKE MEMBER'. Below this, a subheading reads 'Create your Nike Member profile and get first access to the very best of Nike products, inspiration and community.' The form includes input fields for email (containing 'talha@gmail.com'), password (masked), full name (containing 'Muhammad Talha'), first name (containing 'Usman'), and birth date (containing '11/11/2005'). A footer note states 'Get a Nike Member Reward every year on your Birthday.'

localhost:3000/join-us

talha@gmail.com

Muhammad Talha

Usman

11/11/2005

Get a Nike Member Reward every year on your Birthday.

Pakistan

Sign up for emails to get updates from Nike on products, offers and your Member benefits

By creating an account, you agree to Nike's [Privacy Policy](#) and [Terms of Use](#).

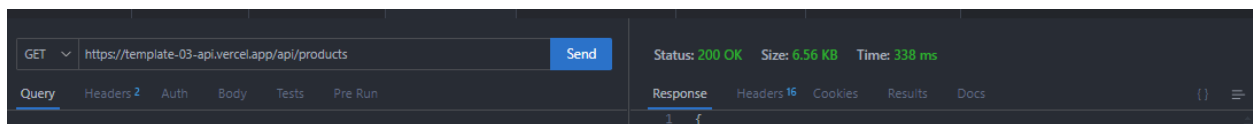
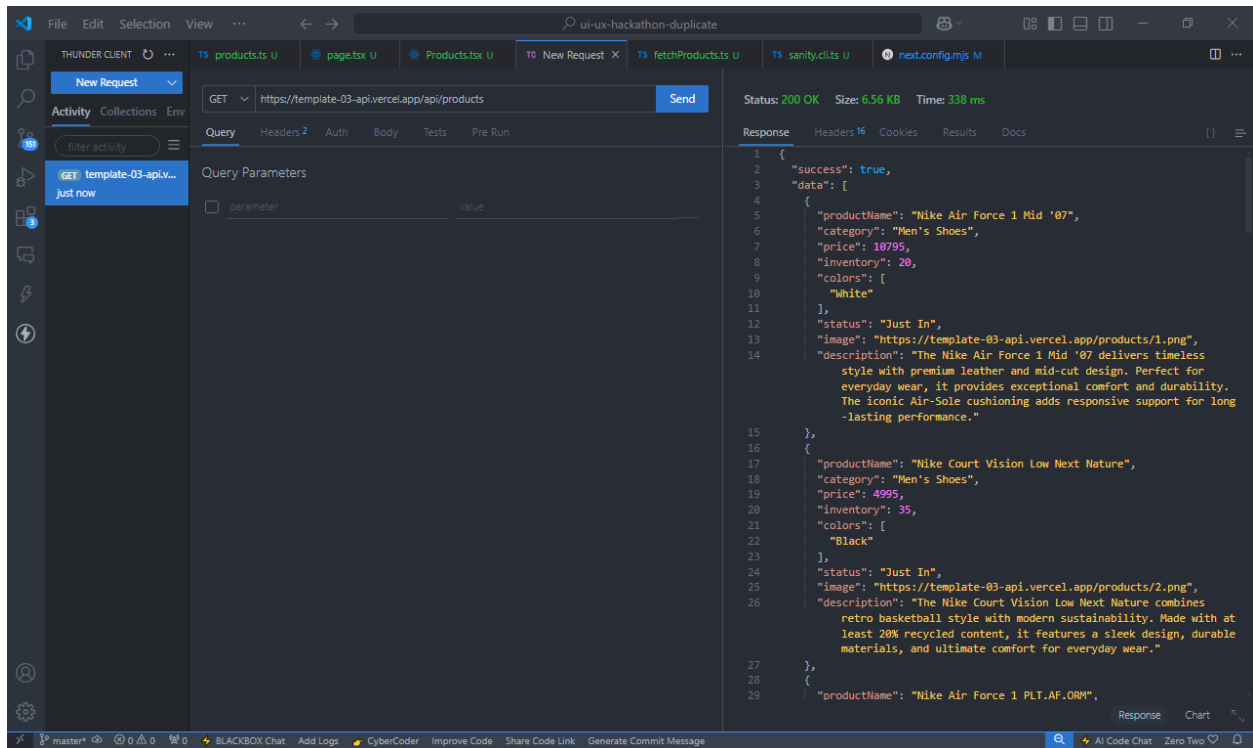
JOIN US

[Already a Member? Sign In.](#)

Step 2: Error Handling

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

Step 3: Thunder Client



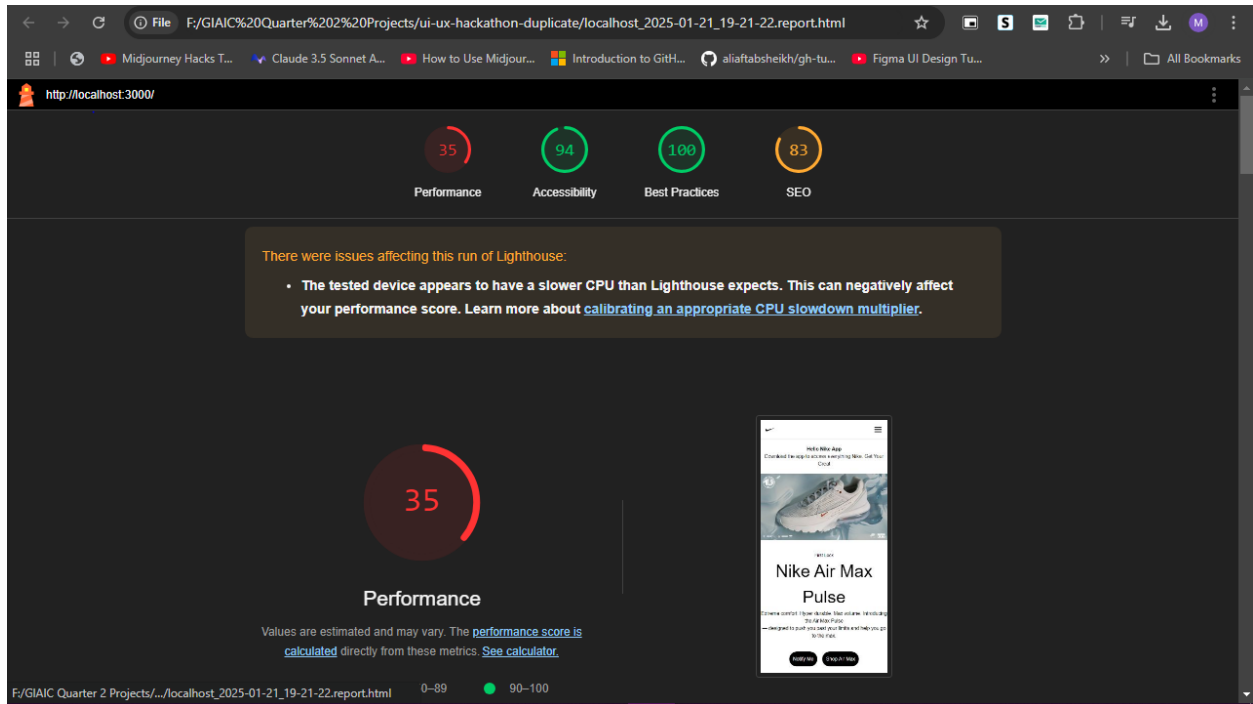
Test Case ID	Test Case Description	Test Steps	Expected Result	Actual Result	Status	Severity Level	Assigned To	Remarks
TC001	Validate product listing page	Open product page > Verify products	Products displayed correctly	Products displayed correctly	Passed	High	-	No issues found
TC002	Test API error handling	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

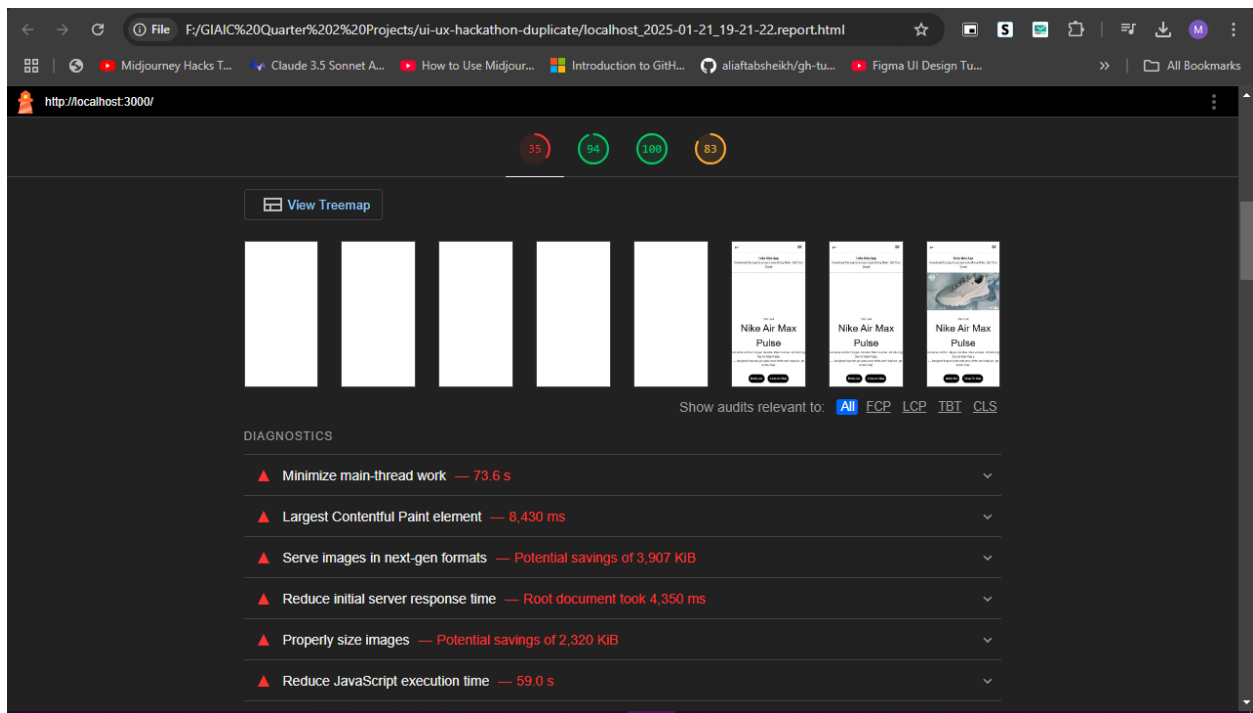
Step 4: Performance Optimization

Lighthouse Report

Performance:

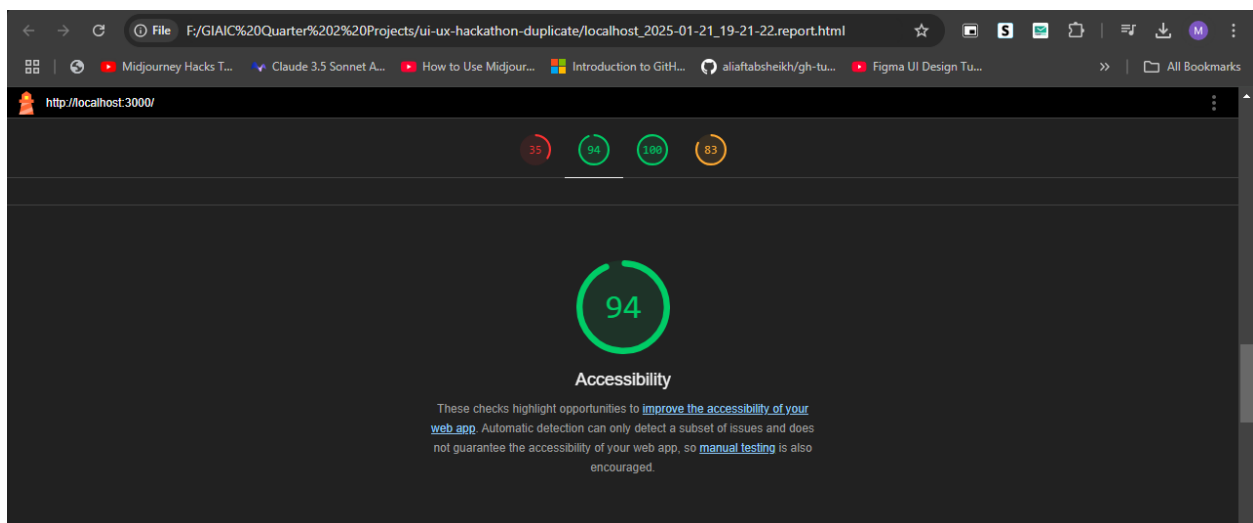
The performance score indicates that the website's loading speed need optimization. Enhancements such as image optimization, reducing unused JavaScript, and improving server response times will be implemented in the future to boost performance.





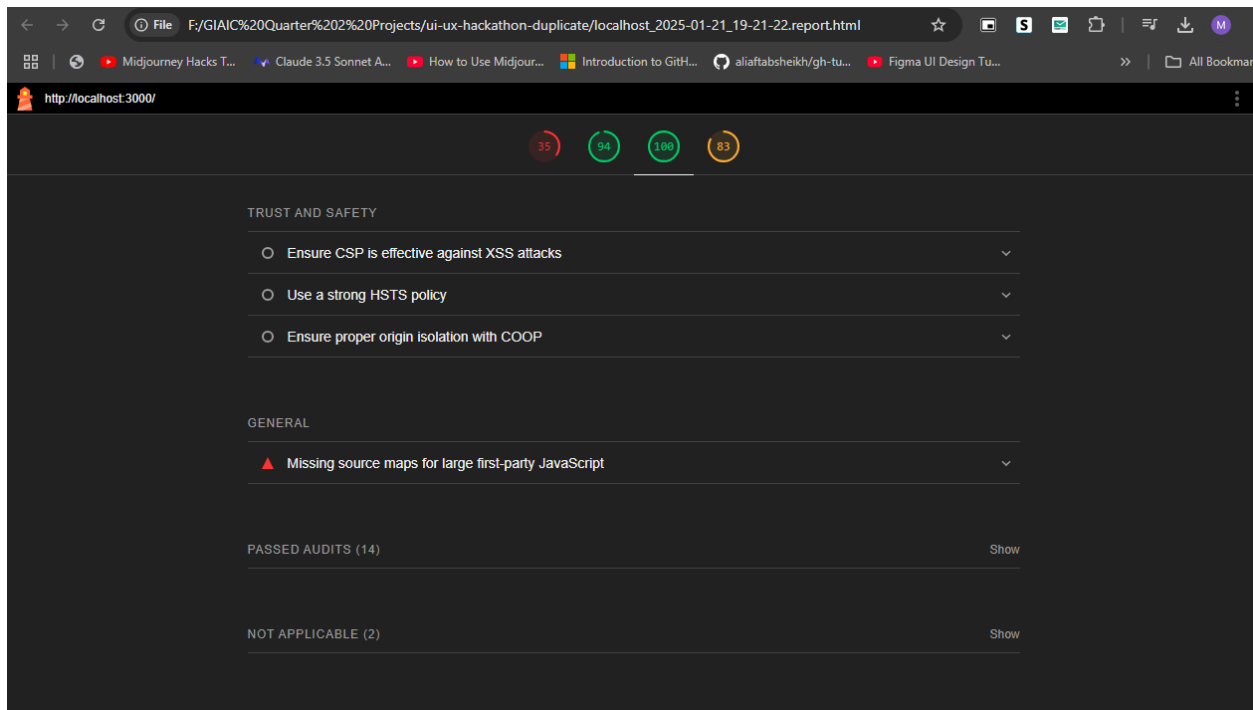
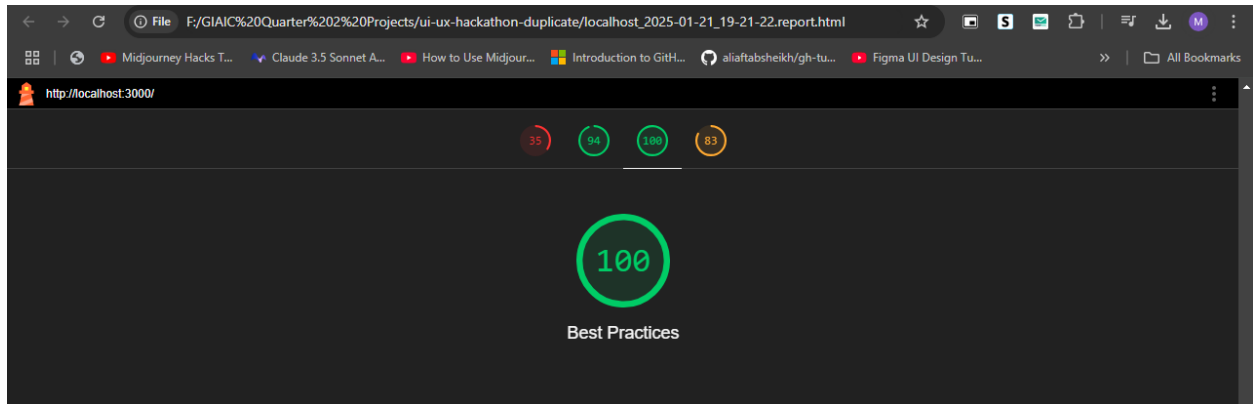
Accessibility:

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

The screenshot shows a web browser at localhost:3000 displaying the Nike Air Max Pulse product page. The page features a large image of a white and blue sneaker, the text "Hello Nike App", "Download the app to access everything Nike. Get Your Great", "First Look", "Nike Air Max Pulse", "Extreme comfort. Hyper durable. Max volume. Introducing the Air Max Pulse — designed to push you past your limits and help you go to the max.", and buttons for "Notify Me" and "Shop Air Max".

The React DevTools Developer Resources panel is open, showing a list of resources. The table below represents the data shown in the panel:

Status	URL	Initiator	Total Bytes	Error
success	/json;charset=utf-8;base64,eyJ2ZXJzaW9uIjo:		1 112	
success	/json;charset=utf-8;base64,eyJ2ZXJzaW9uIjo:		1 116	
success	/OGZkMSJdLCJzb3VyY2VzQ29udGVudCI6Wy		8 493	
success	/YWU2NSJdLCJzb3VyY2VzQ29udGVudCI6Wy		301	

Performance Monitor

The screenshot shows a web browser at localhost:3000 displaying the Nike Air Max Pulse product page. The page features a large image of a white and blue sneaker, the text "Hello Nike App", "Download the app to access everything Nike. Get Your Great", "First Look", "Nike Air Max Pulse", "Extreme comfort. Hyper durable. Max volume. Introducing the Air Max Pulse", and buttons for "Notify Me" and "Shop Air Max".

The React DevTools Performance Monitor panel is open, showing a list of performance metrics. The table below represents the data shown in the panel:

Metric	Value
CPU usage	2.9%
JS heap size	37.8 MB
DOM Nodes	866
JS event listeners	376
Documents	2
Document Frames	2
Layouts / sec	0
Style recalcs / sec	0

Security

