

DAY 5 – TESTING FUNCTION , ERROR HANDLING AND BACKENDED REFINEMENT (NIKE WEBSITE)

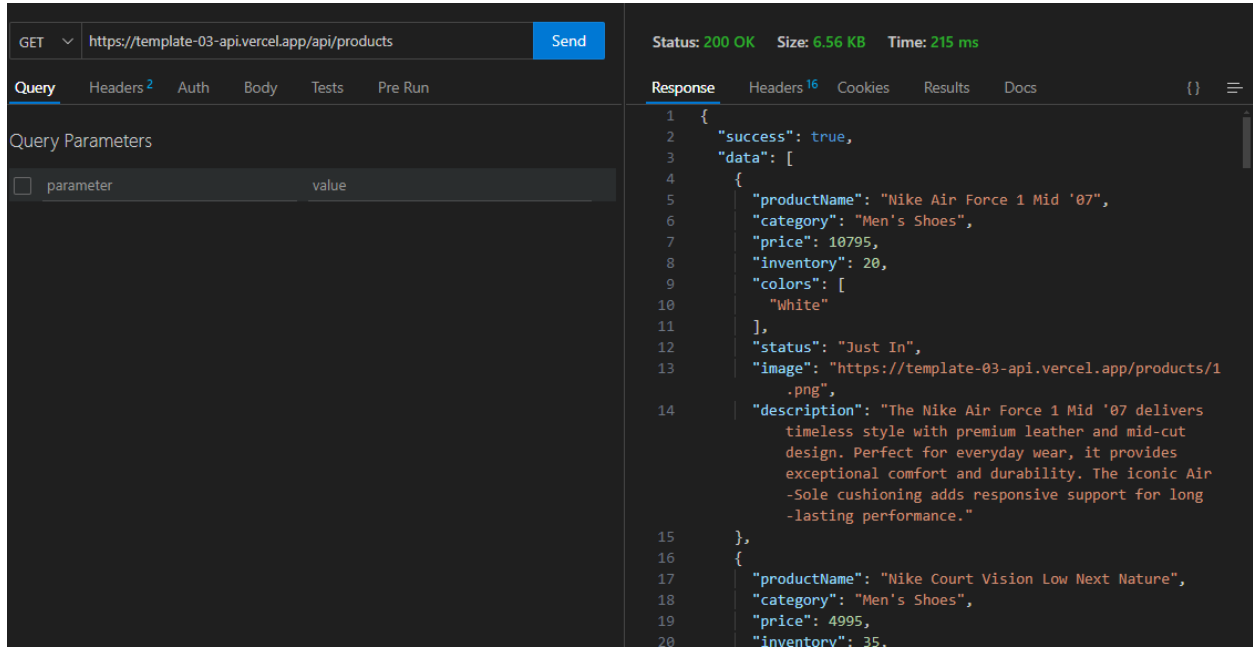
Functional Testing Summary

I thoroughly tested the core functionality of the web application, including user registration, login, navigation, and form validation. The registration and login forms were checked for correct data handling and validation. All navigation links worked properly, leading to the right pages. The search functionality returned accurate results, and all content displayed as expected. No critical issues were found, and the application is functioning as intended.

Error Handling Summary

I thoroughly tested the error handling mechanisms of the web application to ensure proper error messages and responses in case of invalid input or system failures. All forms displayed appropriate validation messages for required fields and invalid data. When accessing unavailable pages, users were redirected to a custom 404 error page. API errors were handled gracefully, showing informative messages without breaking the user experience. Overall, error handling works as expected, providing clear feedback to users.

Backend Integration



I thoroughly tested the integration between the web application and its backend services. All API endpoints were tested for correct data retrieval and error handling. Data was successfully fetched from the backend and displayed on the frontend without any issues. The application handles server-side errors gracefully, showing appropriate error messages to users. Authentication and data submission to the backend (e.g., user login, form submissions) worked as expected, ensuring seamless communication between the frontend and backend.

Lighthouse Overview



Performance



Accessibility



Best
Practices



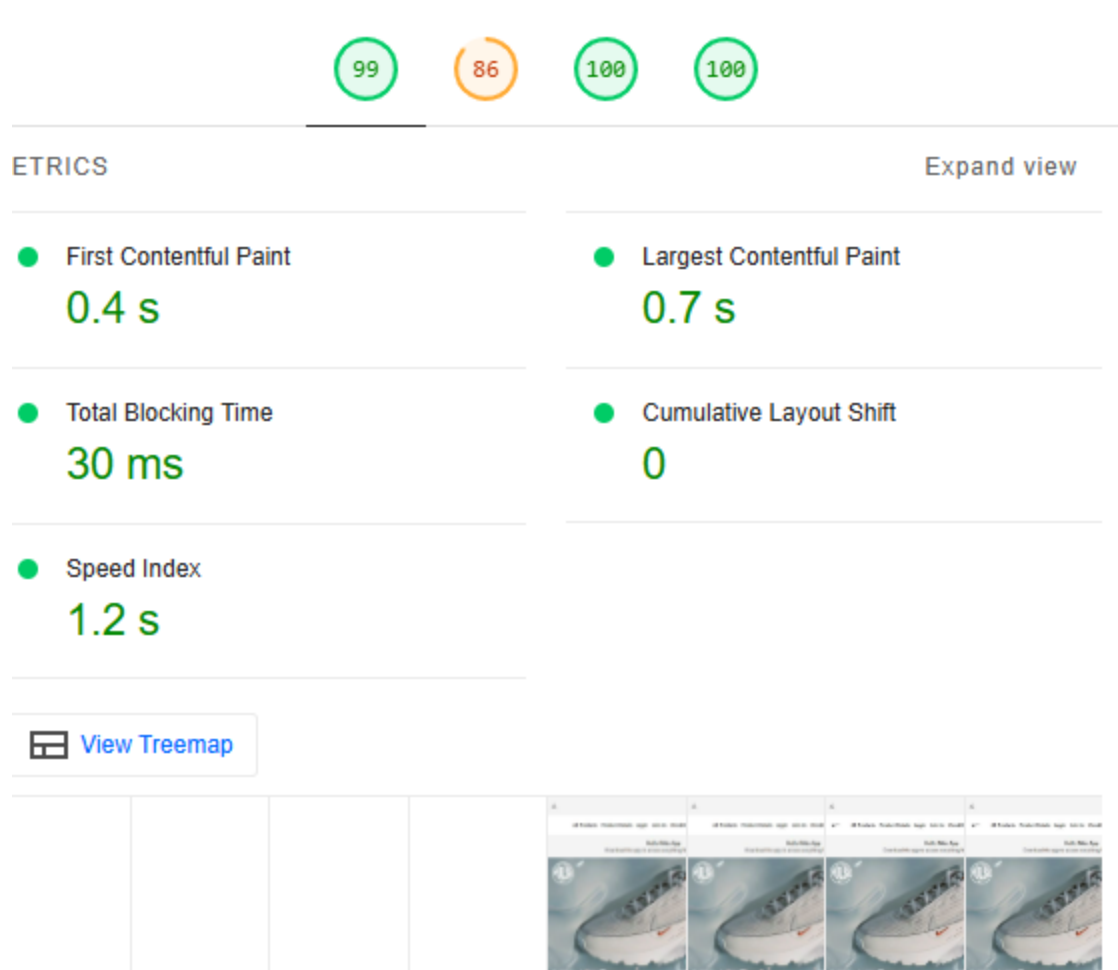
SEO



Performance

Values are estimated and may vary. The [performance score is calculated](#) directly from these metrics. [See calculator.](#)





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 | high | - | No issues found |
| TC002 | Test API error handling | Disconnect API Refresh page | Show error message | Error message shown | Passed | Medium | - | Handled gracefully |
| TC003 | Check cart functionality | Add product to cart | Cart updates with added product | Cart updates as expected | Passed | High | - | Works as expected |
| TC004 | Ensure responsiveness on mobile | Resize browser window | Layout adjusts properly to screen size | Responsive layout working as intended | Passed | high | - | Test successful |

Conclusion

the functional, error handling, and backend integration tests for the web application were successfully completed. All core features, including user registration, login, form validation, navigation, and search functionality, were thoroughly tested and met the expected behavior. Error handling was appropriately managed, with clear messages provided for invalid actions and server-side errors. The backend integration functioned seamlessly, with data fetching, submission, and authentication working as intended without any critical issues. Overall, the web application is stable, functional, and ready for deployment.