

Testing & Backend Refinement – Nike Store

**Day – 5 : Strengthening
Performance and Reliability**



Overview :

Day5 focused on enhancing the robustness and scalability of the Nike Store through:

- ✓ Comprehensive Testing
- ✓ Efficient Error Handling
- ✓ Backend Optimizations

Key areas of improvement included:

Integration Testing: Ensuring smooth interactions between components.

Input Validation: Preventing errors and enhancing security.

Performance Optimization: Improving speed and efficiency.

Responsiveness Monitoring: Ensuring a seamless experience across devices.











Key Achievements :

✓ Test Cases Summary

- Total Test Cases: 7
- Status: All test cases passed

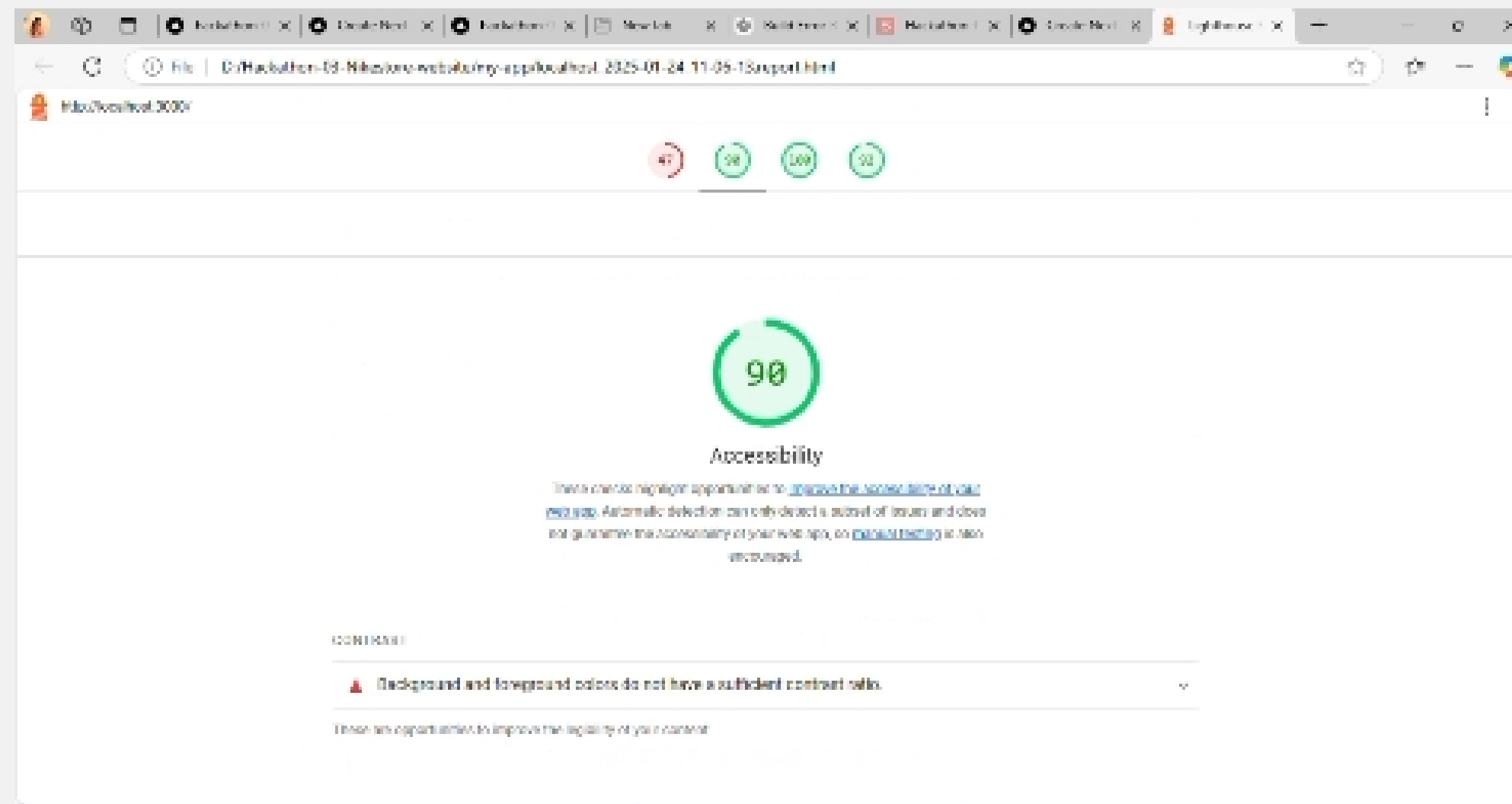
✓ Critical Tests Covered:

- Product Page Validation (Listing & Details)
 - API Error Handling (With Fallback Mechanisms)
 - Mobile Responsiveness Check
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- ✓ Lighthouse Performance Score: 47/100
- Issue Identified: Device-specific CPU slowdown affecting performance.
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2. Performance insights:

- Opportunities to optimise page loading and resource usage.
- Accessibility, SEO, Best Practices : All scored 90+



File

DrHackathon-03-Hikobara-web

Run my app

host:2025-01-24 11:05:13

Report.html

47

98

100

92

98

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.

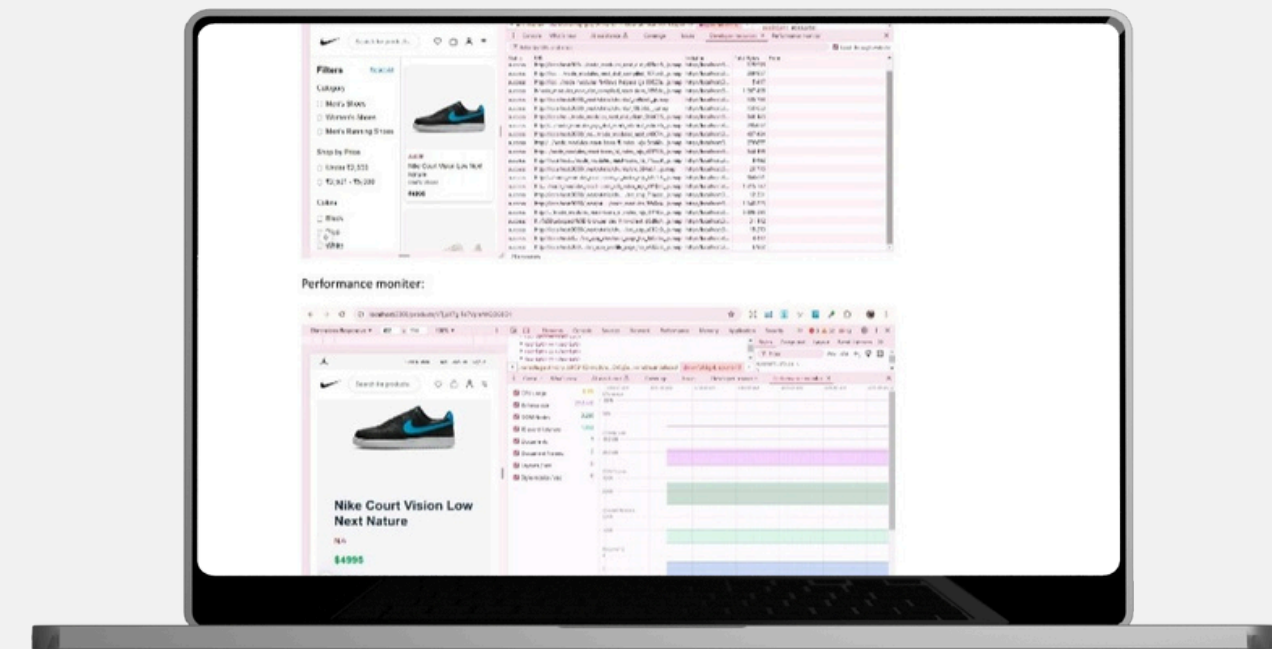
CONTINUE

Background and foreground colors do not have a sufficient contrast ratio.

These are opportunities to improve the legibility of your content.

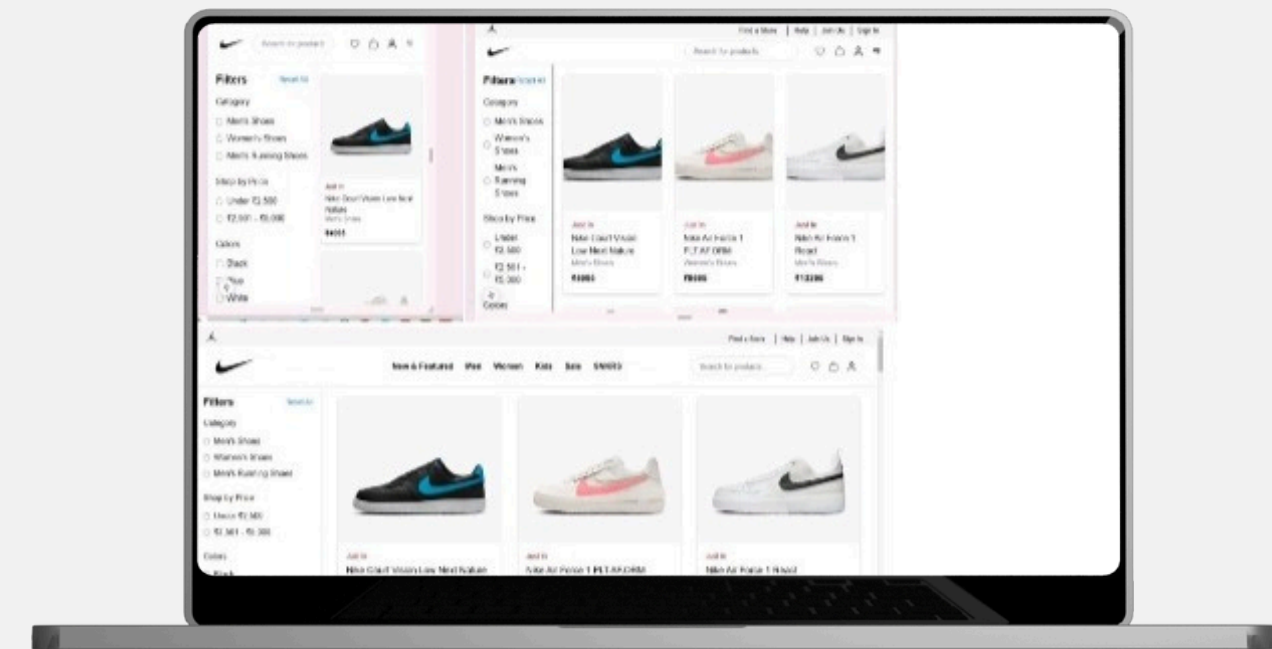
3. Debugging and Monitoring:

- Network Tab insights:
- All resources successfully fetched without any error.
- Minimal delays in API requests with optimised payloads.
- Performance Monitoring :
- DOM size and event listeners optimised for responsive behaviour
- JS heap size stable under load



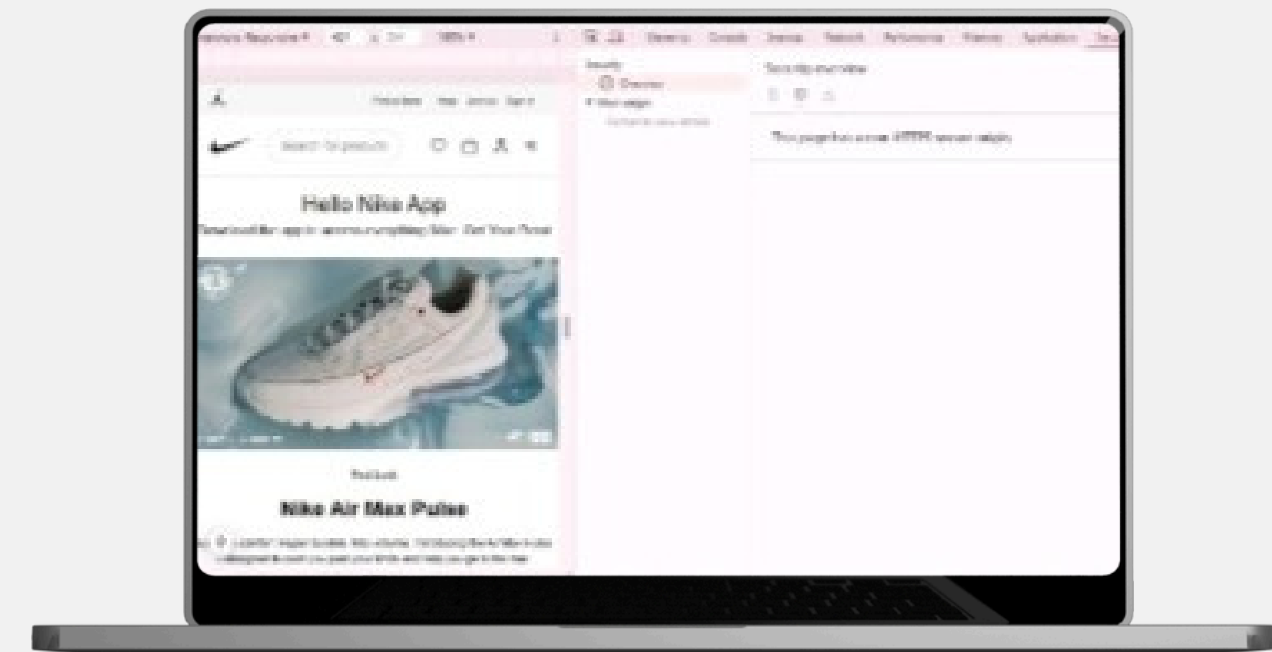
4. Responsiveness testing:

- Mobile layout resized effectively for various screen dimensions.
- No UI disruptions or responsiveness issues were identified.



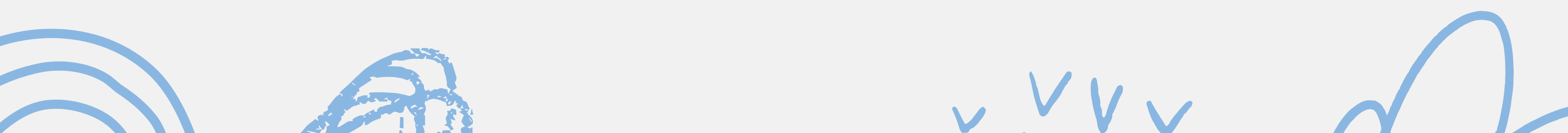
5. Security observation:

- Page tested under non http origin.
- Recommendations implement HTTPS for improved security and user trust.





6. API Response Validation:

- API endpoints (<https://template-03-api.vercel.app/api/products>) tested via Postman.
 - Response status: 200 OK
 - All fields fetched accurately with valid data structure.
- 

Status: 200 OK Size: 6.56 KB Time: 567 ms

Response

Headers 16

Cookies

Results

Docs

```
1  {
2    "success": true,
3    "data": [
4      {
5        "productName": "Nike Air Force 1 Mid '07",
6        "category": "Men's Shoes",
7        "price": 10795,
8        "inventory": 20,
9        "colors": [
10         "White"
11       ],
12       "status": "Just In",
```


The background of the slide is decorated with various hand-drawn blue doodles. These include several overlapping circles and loops at the top, a series of concentric arcs at the bottom left, a wavy line at the bottom center, and several checkmarks at the bottom right. There are also some abstract scribbles and lines scattered throughout the corners.

Thank you very much!

Presented By Rida Fatima