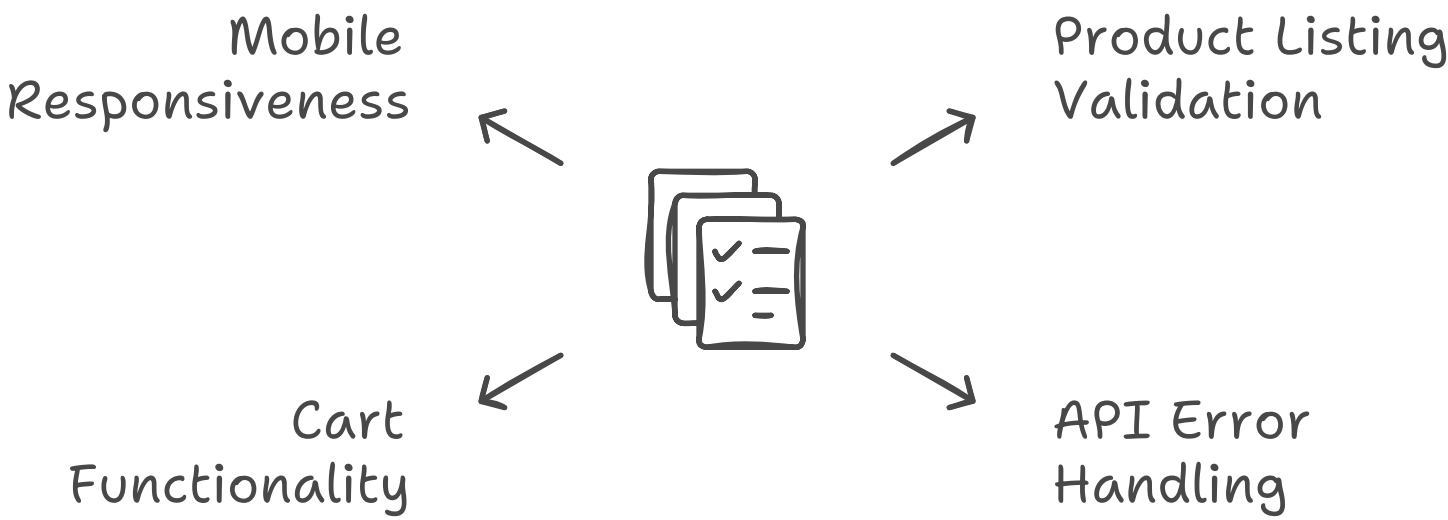


Day 5 Progress Report: Marketplace Builder 2025 Hackathon

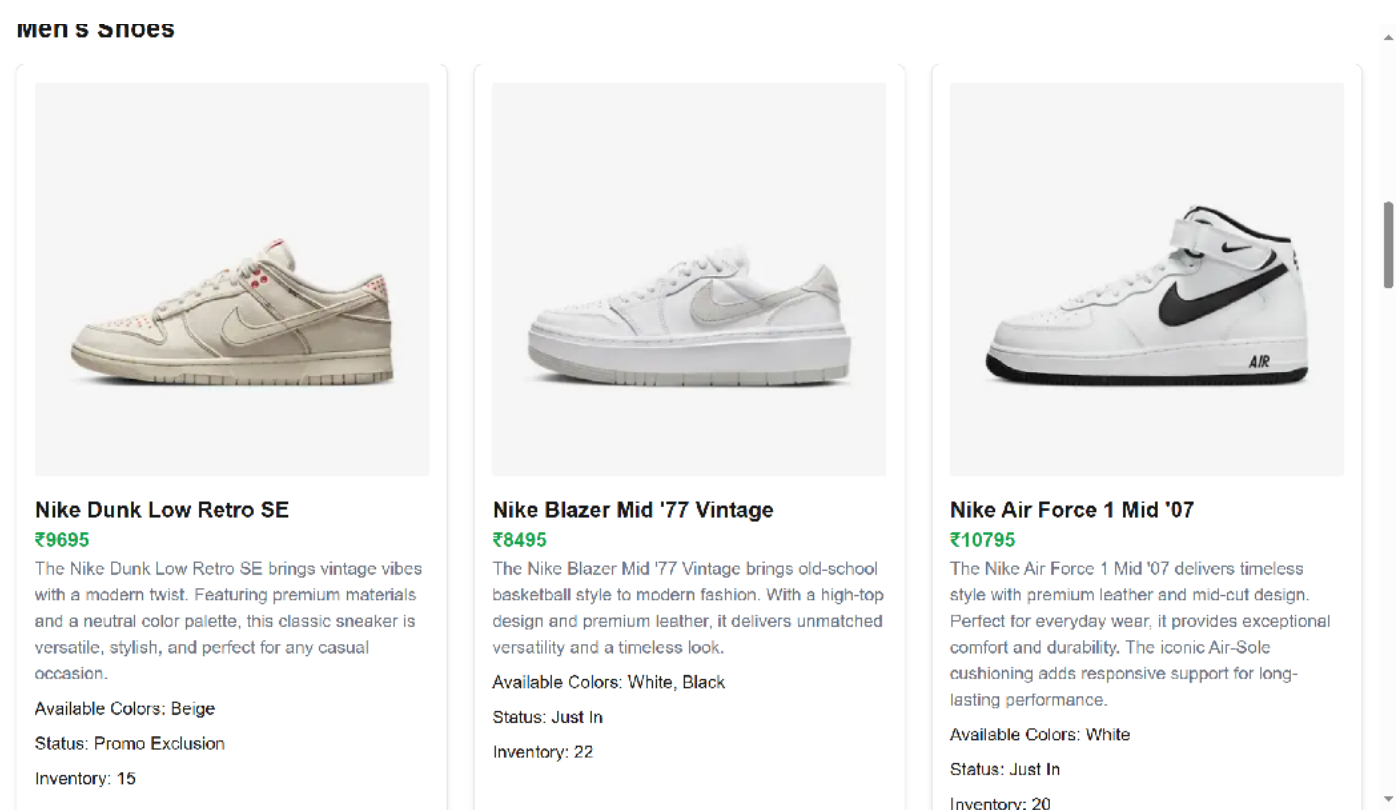
This document outlines the progress made on Day 5 of the Marketplace Builder 2025 Hackathon. It highlights key achievements in functional testing, error handling, performance optimization, responsive design, security measures, and documentation efforts. The insights gained during this phase are invaluable for future projects.

Testing Outcomes



Functional Testing

- Validated product listings, filters, search functionality, cart operations, and routing.
- Utilized tools such as Postman and Cypress to ensure all features are working as intended.

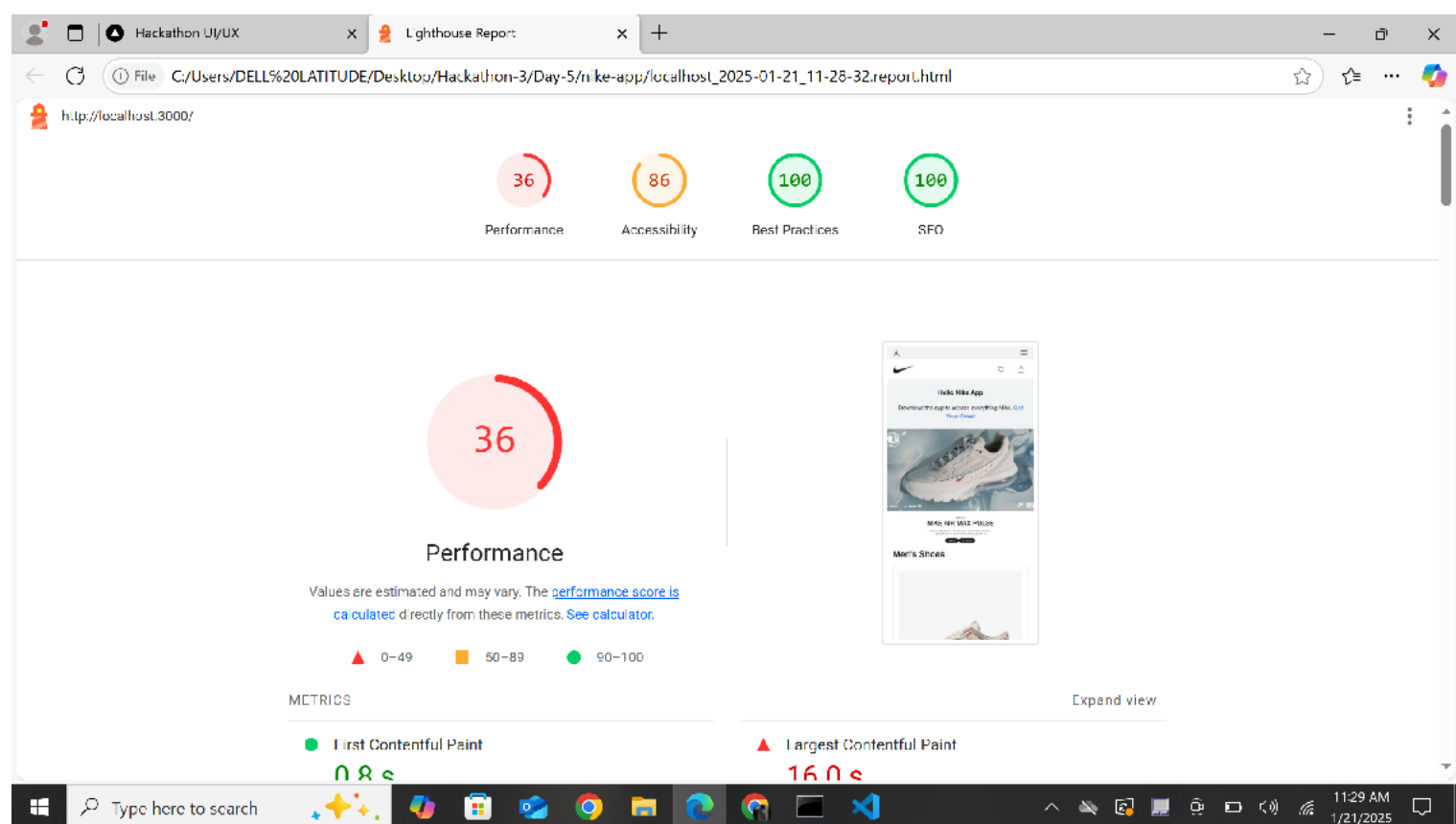


Error Handling

- Implemented user-friendly fallback messages to enhance user experience during API failures.
- Developed a "No products available" UI to inform users when no items meet their search criteria.

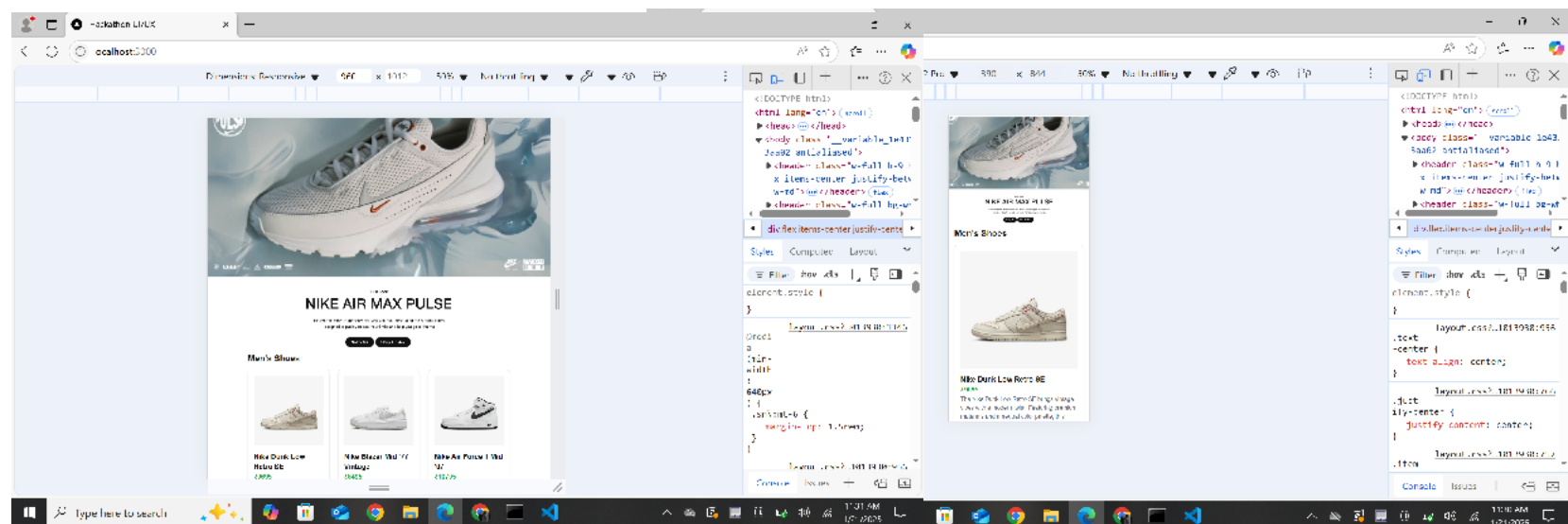
Performance Optimization

- Achieved faster load times through various strategies:
 - Compressed images to reduce file size.
 - Implemented lazy loading for images and content.
 - Utilized caching strategies to improve response times.



Responsive Design

- Conducted extensive testing across major browsers including Chrome, Firefox, Safari, and Edge.
- Ensured compatibility on multiple devices using BrowserStack to provide a seamless user experience.



Security

- Secured APIs by implementing HTTPS to encrypt data in transit.
- Protected sensitive keys by storing them in environment variables, minimizing the risk of exposure.

Documentation

- Submitted comprehensive reports detailing:
 - CSV-based test cases.
 - Results from testing phases.
 - Optimizations made throughout the process.

This journey has been an incredible learning experience, and I'm excited to apply these skills to future projects! 🖥️