

# Day 6 Deployment

## Preparation on vercel

Why Vercel for Hosting?

Vercel was chosen as the hosting platform for its exceptional features:

1. Intuitive Interface: Provides a user-friendly experience, simplifying the deployment process.

2. Seamless GitHub Integration: Directly connects to GitHub repositories, making workflow management effortless.

3. Automatic Deployments: Automatically triggers redeployments with every code push to GitHub, ensuring the staging environment is always up-to-date.

## **Steps to Deploy the Marketplace**

### **Application to Staging**

Login to Vercel o Accessed my Vercel account and navigated to the Vercel Dashboard

2. Add a New Project
  - o Clicked on Add New Project and selected the marketplace hackathon project repository
3. Configure Environment Variables
  - o Properly set up all required environment variables under the project settings to ensure secure and smooth operation of the application
4. Deploy to Staging
  - o Deployed the application to a staging environment, allowing for comprehensive testing in a near-production setting.
5. Validation and Testing
  - o Confirmed the deployment build completed successfully.
  - o Validated the site loads correctly without any errors, ensuring all functionalities work as expected in the staging environment.

# Staging Environment Testing: Comprehensive Analysis and Validation

To ensure the marketplace application is production-ready, rigorous testing was conducted in the staging environment. The process involved both functional and performance testing to evaluate real-world usability and optimize overall application performance.

## 1. Functional Testing: Simulating Real-World Scenarios

A thorough functional testing strategy was implemented to replicate user interactions and validate seamless functionality:

Browsing Products: Verified that product listings load accurately, and filter/sort options work as expected.

Adding Items to the Cart: Ensured the cart functionality responds in real-time, updates quantities correctly, and reflects accurate totals

Checkout Process: Simulated the checkout flow, confirming secure and error-free transactions while testing multiple payment methods.

User Experience Validation: Navigated through the site as a user to ensure an intuitive design and smooth navigation across pages.

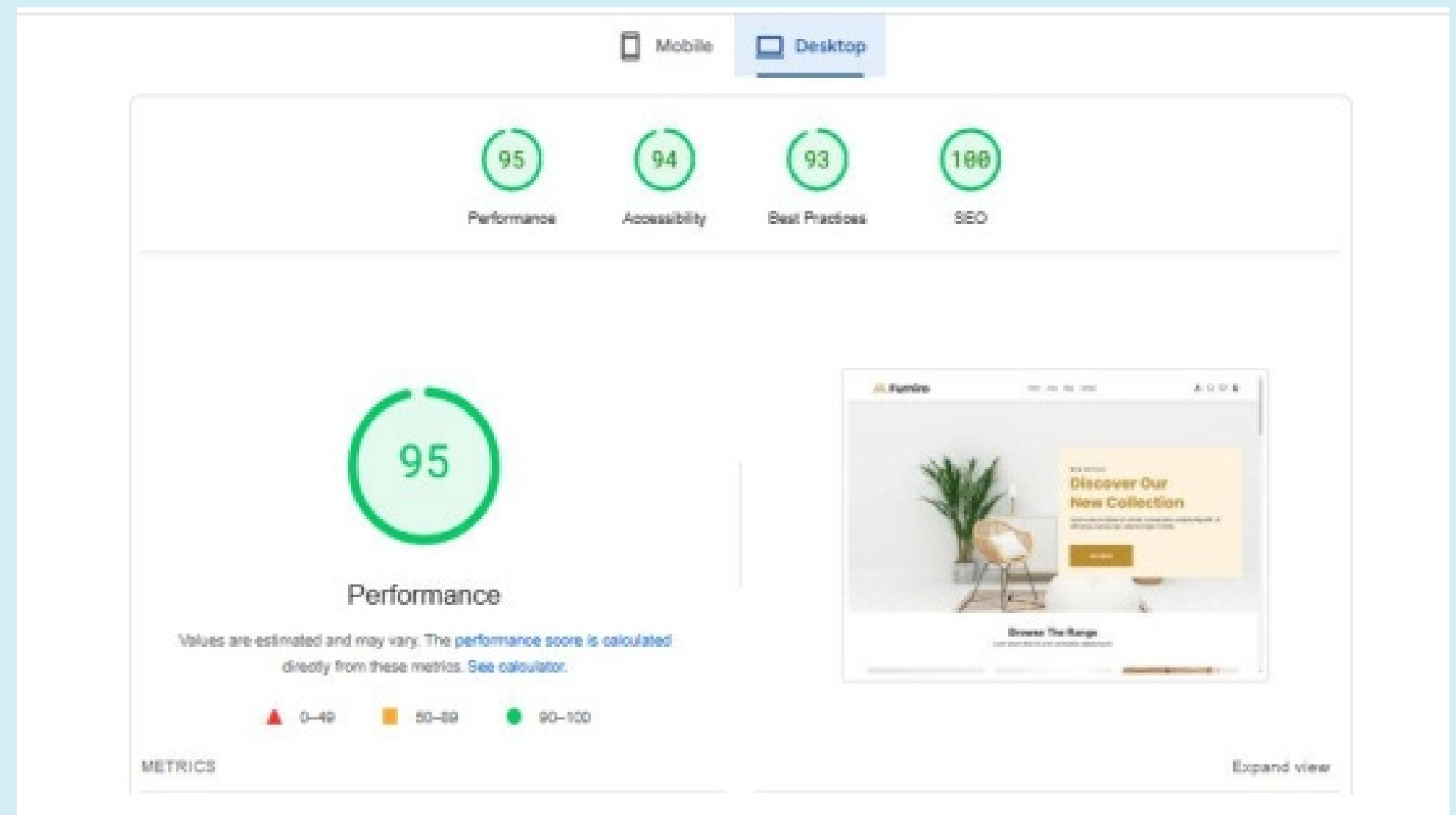
## **2. Performance Testing: Speed and Responsiveness**

Performance testing was conducted using PageSpeed Insights to evaluate and optimize the application's user experience.

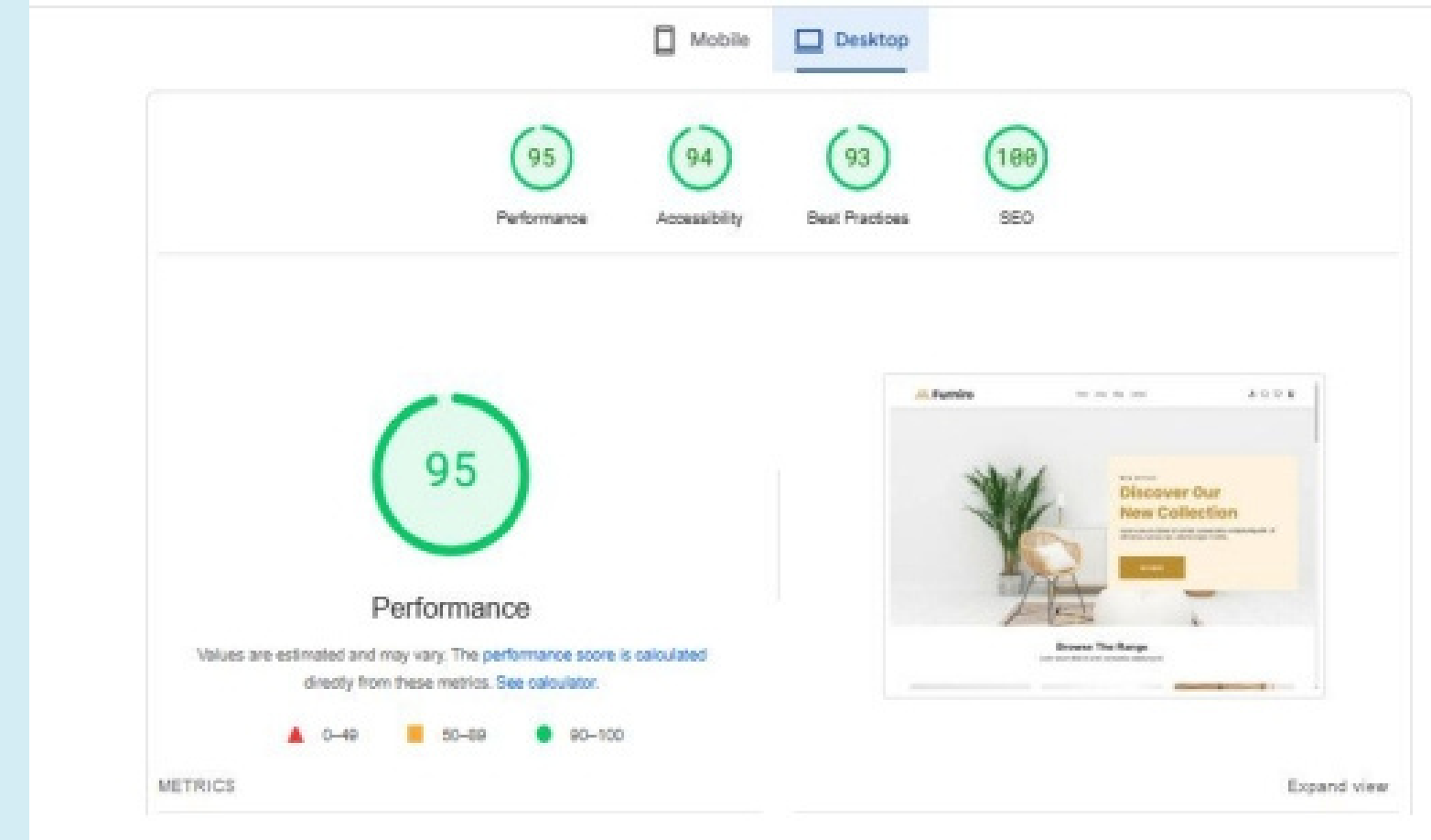
Page Load Time: 0 Assessed page loading speed under different network conditions.

Optimized resources to enhance load times and reduce latency.

Cumulative Layout Shifts (CLS): o Checked visual stability by addressing unexpected layout shifts.  
Ensured smooth scrolling and uninterrupted interactions







# Conclusion: From Concept to Completion

Over the past six days, the Furniro Marketplace project has evolved from an idea into a fully functional application, ready for live deployment. This journey involved crafting a seamless user experience, integrating advanced features, and ensuring the platform is robust and production-ready. With a clear focus on scalability and efficiency, every step has contributed to building a reliable and dynamic marketplace solution.



## Key Next Steps:

Resolve Pending Issues: Address any remaining bugs or enhancements identified during staging tests.

Monitor Live Deployment: Continuously track performance metrics and gather user feedback to ensure smooth operation.

Expand Features: Incorporate cutting-edge functionality, including multi-language support and predictive analytics, to further enrich the platform.

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