

# HACKATHON 3

## DAY 5

### Objective:

On Day 05, my goal is to enhance and optimize the website, ensuring it is ready for real-world deployment. I will focus on thoroughly testing all components, refining backend integrations, improving performance, and implementing robust error handling. Additionally, I will work on enhancing the user experience to ensure the platform can efficiently handle customer-facing traffic.

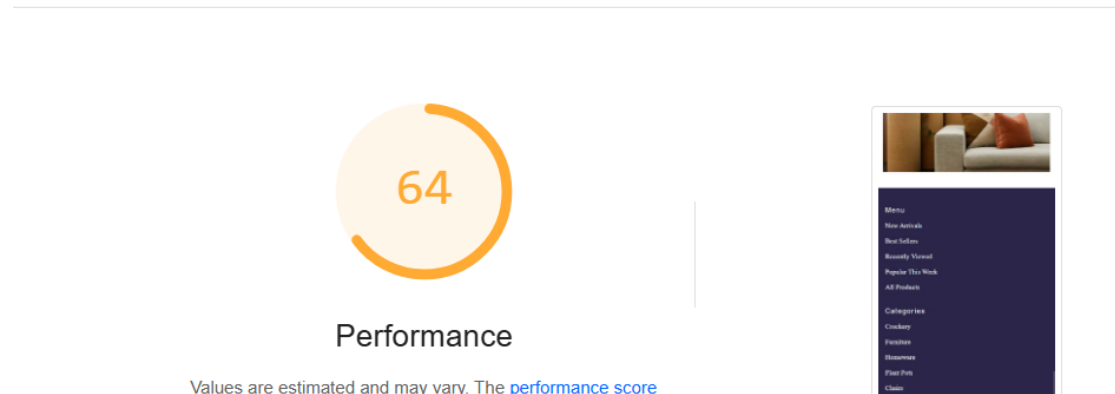
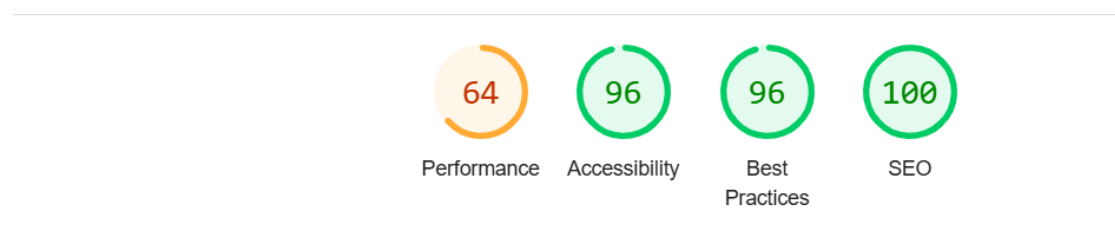
### Error Handlings:

#### Error API Failures:

- ▣ Addressed API failures and unexpected errors using try-catch blocks.
- ▣ Display fallback UI elements when data is unavailable (e.g., "No products found").
- ▣ Used try catch syntax.

### Performance Testing:

- ▣ Identify bottlenecks using tools like Lighthouse.
- ▣ Optimize images, minimize JavaScript and CSS, and implement caching strategies.



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### Test Case Validation Chart

Test Case ID	Feature Being Tested	Execution Steps	Expected Outcome	Status
TC-UI-014	Product Card Rendering	Render a ProductCard component with sample data	Product details (name, price, image) should display correctly	In Progress
TC-UI-019	Dynamic Product Grid	Populate ProductGrid with an array of products	All products should render as individual cards	Initial Failure, then Pending
TC-FILTER-003	Category-based Filtering	Choose a category in the Filters component	Products dynamically update based on selection	Passed
TC-RESP-011	Responsive UI Testing	Test UI on mobile, tablet, and desktop screens	Layout should adjust correctly for all sizes	Passed