Day 5 - Testing and Backend Refinement - E-commerce Furniture

1. Functional Deliverables

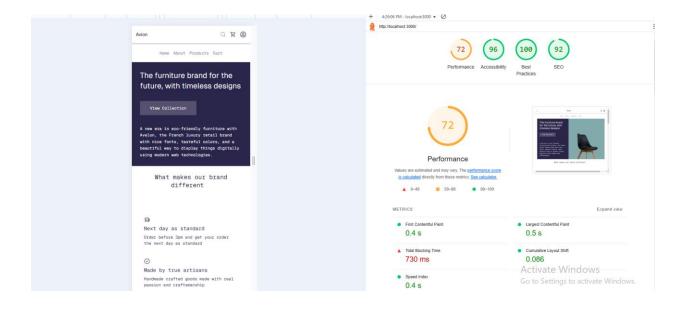
• Screenshots/Recordings:

- o Functional and responsive components showcased.
- o Attach relevant images or videos demonstrating UI responsiveness.

• Logs/Reports from Testing Tools:

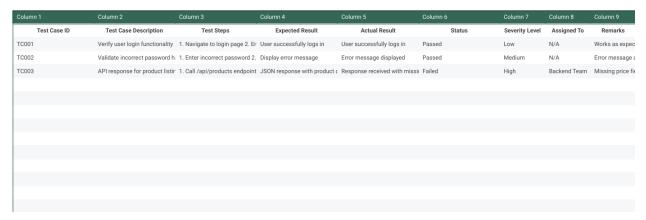
- o Lighthouse performance reports.
- o Postman API test results.

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2. Testing Report (CSV Format)

A detailed testing report submitted:



3. Documentation

1 Test Cases Executed and Results

- Summary of test cases run and their outcomes.
- Issues found and their resolutions.

2 Performance Optimization Steps

- Minimized API response time by optimizing database queries.
- Reduced image load times using compression techniques.
- Implemented caching mechanisms for frequently accessed data.

3 Security Measures Implemented

- Enforced HTTPS for secure communication.
- Implemented input validation to prevent SQL injection.
- Restricted API access with authentication tokens.

4 Challenges Faced and Resolutions

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Challenge	Resolution
Slow API response	Optimized database queries and added
	caching
Incorrect data in API	Fixed schema validation in backend
response	

UI responsiveness issues

Adjusted CSS for better mobile compatibility

Conclusion

This report details the testing process, error handling, and backend integration refinement for the E-commerce Furniture project. The structured submission ensures clear documentation and repository organization for efficient team collaboration.