

# Avion Testing Report

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Project Name: Avion E-Commerce Website

## 1. Functional Deliverables

- The website contains multiple pages:
  - Main Page
  - Crockery Page
  - Chair Page
  - Ceramics Page
  - Tableware Page
  - Product Listing Page
  - Checkout Page
  - Cart Page
- All pages have been tested for responsiveness and functionality.
- Logs from Lighthouse and Postman have been generated for performance and API testing.

## 2. Testing Report (CSV Format)

Test Case ID	Test Case Description	Test Steps	Expected Result	Actual Result	Status	Severity Level	Assigned To	Remarks
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TC 001	Verify navigation links	Click on navigation menu items	Correct page should open	Correct pages opened	 Passed	Low	-	-
TC 002	Test product listing functionality	Navigate to product page, check product details	Products should be displayed correctly	Products displayed correctly	 Passed	Medium	-	-
TC 003	Validate cart functionality	Add products to cart, view cart	Products should appear in cart	Products displayed correctly in cart	 Passed	Medium	-	-
TC 004	Check checkout process	Add items to cart, proceed to checkout, complete payment	Order should be successfully placed	Order placed successfully	 Passed	High	-	-
TC 005	Verify responsiveness	Open site on mobile, tablet, and desktop	Site should adjust layout properly	Layout adjusts correctly	 Passed	Medium	-	-

### 3. Performance Optimization Steps Taken

- Minimized image sizes to improve page load speed.
- Implemented lazy loading for images.
- Reduced unused CSS and JavaScript files.
- Optimized database queries for faster product loading.
- Used caching mechanisms to enhance performance.

## 4. Security Measures Implemented

- Used HTTPS for secure communication.
- Implemented validation on input fields to prevent SQL injection.
- Used authentication for checkout and sensitive actions.
- Ensured that users cannot access the admin panel without authorization.

## 5. Challenges Faced & Resolutions Applied

Challenge	Resolution
Navigation links were not working properly.	Debugged routes and fixed incorrect links.
Checkout form was not validating correctly.	Implemented proper validation rules.
Page load speed was slow.	Optimized images and minified CSS/JS files.
Cart was not updating dynamically.	Fixed JavaScript logic and state management.

## 6. Conclusion

The **Avion E-Commerce Website** has been successfully tested, and necessary optimizations have been implemented. All major functionalities, including product listing, cart, and checkout, are working as expected.