## Testing Report

## **Overview**

This document provides a detailed testing report for the marketplace e-commerce project, highlighting the test cases executed, expected and actual results, and their statuses.

## **Testing Summary**

The testing process focused on the following key areas:

- 1. **Functional Testing:** Validated core functionalities such as product listing, cart operations, and checkout.
- 2. Error Handling: Tested scenarios like empty carts and invalid inputs.
- 3. **Performance Testing:** Ensured the application met performance benchmarks.
- 4. **Cross-Browser Testing:** Verified consistent rendering across major browsers.
- 5. **Security Testing:** Checked for vulnerabilities like SQL injection and XSS attacks.

Test Case ID	Test Case Description	Test Steps	Expecte d Result	Actual Result	Statu s	Severit y Level	Assigne d To	Remark s
TC00 1	Validate product listing	1. Navigate to homepage 2. Check product display	Products should be displayed correctly	Products displayed	Passe d	Low	N/A	N/A
TC00 2	Validate filters and search	1. Use filters2. Search for a product	Correct products should be displayed based on filters	Correct products displayed	Passe d	Mediu m	N/A	N/A
TC00 3	Validate cart operations	1. Add product to cart2. Update quantity3. Remove product	Cart should reflect changes correctly	Cart updated correctly	Passe d	High	N/A	N/A

TC00 4	Validate dynamic routing	1. Click on a product2. Verify product detail page loads	Product detail page should load correctly	Product detail page loaded	Passe d	Low	N/A	N/A
TC00 5	Handle empty cart error	1. Navigate to cart with no items	Consistent rendering and functionalit	Message displayed	Passe d	Mediu m	N/A	N/A
TC00 6	Handle empty cart error	Use Lighthouse to analyze performanc e	Performanc e score above 90	Score: 92	Passe d	High	N/A	N/A
TC00 7	Validate input fields	1. Submit forms with invalid data	Show validation error messages	Error messages displayed	Passe d	High	N/A	N/A
TC00 8	Test cross- browser compatibilit y	Test on Chrome, Firefox, Safari, Edge	Consistent rendering and functionalit y	Consistent across all browsers	Passe d	Mediu m	N/A	N/A
TC00 9	Test security measures	1. Attempt SQL injection2. Attempt XSS attack	Application should not be vulnerable	No vulnerabiliti es found	Passe d	High	N/A	N/A
TC01 0	User Acceptan ce Testing (UAT)	1. Browse products2. Add to cart3. Checkout	Workflows should be intuitive and error- free	Workflows were intuitive	Passe d	Mediu m	N/A	N/A