Testing Section – Document

# 1. Testing Strategy

focusing on the behavior of each major user interface page. The goal was to validate the system's compliance with functional requirements as experienced by end users.

# 2. Test Environment

- Operating System: Windows 11  
- Browser: Microsoft Edge  
- Backend Environment: Python  
- Frontend: HTML,CSS, Vanilla JavaScript  
- Database: PostgreSQL

# 3. Test Cases Summary

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test ID | Page | Test Description | Input/Action | Expected Result | Actual Result | Pass/Fail |
| TC001 | Login | User logs in with valid credentials | Enter correct username & password | Redirected to dashboard, session started | Redirected  To dashboard | Pass |
| TC002 | Login | User logs in with invalid credentials | Enter wrong username or password | Error message shown | Error message shown | Pass |
| TC003 | Login | User creates an account with invalid Email | Enter invalid email while registering | Alert message shown | Alert message shown | Pass |
| TC004 | Login | User creates an account with out following password restrictions | Enter invalid password | Alert message shown | Alert message shown | Pass |
| TC005 | Login | User login with remember me state | Login using remember me checkbox | Login and saving the user for no need to login again every time | Login saved | Pass |
| TC006 | Login | User creates an account with out accepting our policies | Register with out checking accept Terms and conditions | Alert message shown | Alert message shown | Pass |
| TC007 | Login | Register with an existing email and username | Register the same username in creating another user | Warning message | Warning message | pass |
| TC007 | Cart | Add item to cart | Click "Add to Cart" on a product | Item appears in cart | Item appears in cart | pass |
| TC008 | Cart | Remove item from cart | Click "Remove" on item in cart | Item is removed, total updated | Item is removed | pass |
| TC009 | Cart | Display item in cart | Open cart page with items added | Item details are shown (image, name, price, qty) | Item details are shown (image, name, price, qty) | pass |
| TC010 | Cart | Increase item quantity | Click on "+" beside the quantity | Quantity increases by 1; total price updates | Quantity increases by 1; total price updates | pass |
| TC011 | Cart | Decrease item quantity | Click on "-" beside the quantity | Quantity decreases by 1; total price updates | Quantity decreases by 1; total price updates | pass |
| TC012 | Cart | Remove a single item | Click "Remove" on the product | Item is removed from the cart | Item is removed from the cart | pass |
| TC013 | Cart | Remove all items | Click "Remove all" button | Cart becomes empty | Cart becomes empty | pass |
| TC014 | Cart | Checkout with items in cart  With enough charge in your account | Click "Checkout" | Confirmation message appears | Confirmation message | pass |
| TC015 | Cart | Checkout with items in cart  Without enough charge in your account | Click "Checkout" | Alert message | Alert message | pass |
| TC016 | Home | Display featured products | Load the homepage | "Featured Products" section shows cards with image, title, price | "Featured Products" section shows cards with image, title, price | pass |
| TC017 | Home | Category navigation | Click on "View All Categories" button | Redirects to categories page or filters view by category | Redirects to categories | pass |
| TC018 | Home | Add item to cart from homepage | Click the cart icon on any product card | Item is added to cart and feedback (icon or toast) is displayed | Item is added to cart | pass |
| TC019 | Product list | Apply price range filter | Enter 0 to 999 in price range, click apply | Product list updates to show items priced between 0–999 | Product list updates to show items priced between 0–999 | pass |
| TC020 | ProductList | Add product to cart | Click on the cart icon on any displayed product card | Product is added to cart and UI gives feedback (cart count/toast) | Product is added to cart | pass |
| TC021 | ProductList | Search for a product | Enter keyword in search box | Matching results displayed | Result displayed | pass |
| TC022 | ProductList | Clear all filters | Click the "Clear all filters" button | All filters reset, and the full product list is displayed | All filters reset, and the full product list is displayed | pass |
| TC023 | Dashboard | Verify accuracy of dashboard statistics | Log into seller account and check the displayed values for Total Orders, Delivered, Total Spent, and Products Listed | Values displayed to match the actual data | Values displayed to match the actual data | pass |
| TC024 | Dashboard | Test navigation menu functionality | Click on each sidebar menu item (Dashboard, My Orders, Transactions, etc.) | Each click navigates to the correct corresponding page, and current page is highlighted in menu | Each click navigates to the correct corresponding page, and current page is highlighted in menu | pass |
| TC025 | Dashboard | Verify Activity Summary graph functionality | View the graph, hover over data points, and change date range using the "Last 30 Days" dropdown | Graph displays accurate purchase/sales data, tooltips show correct values on hover, and changing date range updates the graph accordingly | Graph displays accurate purchase/sales data, tooltips show correct values on hover, and changing date range updates the graph accordingly | pass |
| TC026 | Dashboard | Test "Download Report" button functionality | Click the "Download Report" button in the top right corner | System generates and downloads a report containing accurate data for the selected time period | System generates and downloads a report containing accurate data for the selected time period | pass |