Software Test Description (STD) - Demoblaze

# 1. Introduction

This Software Test Description (STD) document provides detailed behavior-driven test scenarios for the Demoblaze e-commerce application. Each scenario is written in BDD format (Given, When, Then) to ensure clarity, traceability, and consistency during execution.

# 2. References

• Functional Requirements Document (FRD) - Demoblaze

• Software Test Plan (STP) - Demoblaze

# 3. Scenarios

## Scenario TC01: User registers with a unique username

Given the user is on the registration page  
When the user enters valid and unique registration details and submits the form  
Then the system should register the user successfully

## Scenario TC02: Prevent registration with an existing username

Given the user is on the registration page  
When the user enters an existing username and submits the form  
Then the system should display an error message

## Scenario TC03: Login with valid credentials

Given the user has a registered account  
When the user enters valid login credentials  
Then the system should log the user in successfully

## Scenario TC04: Login fails with invalid credentials

Given the user is on the login page  
When the user enters incorrect credentials  
Then the system should display an error message

## Scenario TC05: Product categories display correctly

Given the user is on the homepage  
When the user navigates to Phones, Laptops, or Monitors category  
Then the system should display the correct items

## Scenario TC06: Add product to cart

Given the user is viewing a product  
When the user clicks 'Add to Cart'  
Then the system should show a confirmation alert

## Scenario TC07: Remove product from cart

Given the user has items in the cart  
When the user removes an item  
Then the cart should update correctly

## Scenario TC08: Checkout blocked with empty cart

Given the user has no items in the cart  
When the user attempts checkout  
Then the system should block checkout and display an error

## Scenario TC09: Mandatory checkout fields validation

Given the user is at the checkout page  
When the user leaves a mandatory field empty  
Then the system should display an error message

## Scenario TC10: Successful checkout with valid details

Given the user has items in the cart  
When the user enters valid checkout details  
Then the system should complete the order and show an order confirmation with ID

## Scenario TC11: Cart clears after successful order

Given the user has placed an order  
When the order is confirmed  
Then the cart should be cleared automatically

## Scenario TC12: Verify multiple items added and total amount correct

Given the user is logged in  
When the user adds multiple items to the cart  
Then the total amount should be calculated correctly

## Scenario TC13: Logout clears session

Given the user is logged in  
When the user logs out  
Then the system should clear the session and redirect the user

## Scenario TC14: Cart persists during session

Given the user is logged in and has items in the cart  
When the user refreshes the page  
Then the cart should still retain the items

## Scenario TC15: Checkout with expired card date (Known Bug)

Given the user is at checkout  
When the user enters an expired card date  
Then the system should reject the checkout (Expected)  
But currently the system accepts any date (Bug)

## Scenario TC16: Homepage performance

Given the user accesses the homepage  
When the page loads  
Then it should load within 3 seconds

## Scenario TC17: Cross-browser compatibility

Given the site is opened in Chrome, Firefox, or Edge  
When the user browses products and performs actions  
Then the site should function without UI or functional issues

## Scenario TC18: Product images load correctly

Given the user is browsing products  
When the page loads  
Then all product images should display without error

## Scenario TC19: Adding duplicate items to cart

Given the user has added an item to the cart  
When the user adds the same item again  
Then the cart should update quantity correctly without duplication bug

## Scenario TC20: Checkout fields reject special characters

Given the user is at checkout  
When the user enters invalid characters in fields (e.g., Name)  
Then the system should display a validation error