# Manual Testing Project: E-Commerce Website

## Project Overview

This project focuses on performing manual testing for an e-commerce website. The primary goal is to ensure the website's core functionalities work as intended, meet the specified requirements, and provide a seamless user experience.

## 1. Requirements Analysis

### Core Features:  
1. \*\*User Management\*\*:  
 - User registration  
 - Login/logout functionality  
 - Password reset  
2. \*\*Product Search\*\*:  
 - Search bar for keyword-based product search  
 - Filter and sorting options  
3. \*\*Shopping Cart\*\*:  
 - Add/remove items  
 - Update item quantities  
 - Display total price  
4. \*\*Checkout Process\*\*:  
 - Address form validation  
 - Payment gateway simulation  
 - Order confirmation page  
5. \*\*General Features\*\*:  
 - Mobile and desktop responsiveness  
 - Browser compatibility  
 - No broken links/images

## 2. Test Plan

### Objective:  
To validate the functionality, usability, and reliability of the e-commerce website.  
  
### Scope:  
- Functional testing for all user-facing features.  
- Usability testing for ease of use.  
- Compatibility testing on different browsers.  
  
### Deliverables:  
1. Test cases document  
2. Bug report  
3. Test summary report

## 3. Test Cases

### Module: User Management  
| Test Case ID | Test Scenario | Test Steps | Expected Result |  
|--------------|-----------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|  
| TC\_UM\_001 | Verify registration with valid inputs | 1. Navigate to registration page.\n2. Enter valid details.\n3. Submit. | User account is successfully created, and a confirmation email is sent. |  
| TC\_UM\_002 | Verify login with invalid credentials | 1. Go to login page.\n2. Enter incorrect username/password.\n3. Submit. | Error message displayed: "Invalid credentials." |  
| TC\_UM\_003 | Verify password reset functionality | 1. Click "Forgot Password."\n2. Enter valid email.\n3. Submit. | Password reset email is sent to the provided email address. |

## 4. Bug Report

| Bug ID | Module | Severity | Description | Steps to Reproduce | Status |  
|----------|------------------|----------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|------------|  
| BUG\_001 | User Management | High | Password reset link redirects to a 404 error page. | 1. Click "Forgot Password."\n2. Enter email.\n3. Check email.\n4. Click link. | Open |  
| BUG\_002 | Shopping Cart | Medium | Total price does not update when removing items from the cart. | 1. Add multiple items.\n2. Remove one.\n3. Check total price. | Open |  
| BUG\_003 | General Features | Low | Product images take longer than 5 seconds to load. | 1. Search for a product.\n2. Observe image loading time. | Open |

## 5. Test Summary Report

### Overview:  
- Total Test Cases: 20  
- Test Cases Passed: 16  
- Test Cases Failed: 4  
- Bugs Logged: 3  
  
### Recommendations:  
- Fix critical bugs in User Management and Shopping Cart modules.  
- Optimize image loading time for better performance.

## Conclusion

This project covers comprehensive manual testing of an e-commerce website, providing hands-on experience in test case design, execution, and defect reporting. It demonstrates essential QA skills like attention to detail, analytical thinking, and effective documentation.