

Test Plan (QAFox E-Commerce website)

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Test Plan for E-commerce Website (QAFox)

1. Test Plan Overview

- **Test Plan ID:** TP_ECOM_001
- **Test Plan Version:** 1.0
- **Test Plan Created By:** Abhinab Talukdar
- **Date of Creation:** 28th March,2024
- **Test Plan Status:** Completed

2. Introduction

This document outlines the strategy and approach for testing the e-commerce website [QAFox](#). It covers various modules like Registration, Login, Product Search, Product Filters, Product Pages, and Shopping Cart Functionality.

3. Test Objectives

In this document of the Test Plan for the E-Commerce Application QAFox. The goal is to asses its performance and functionalities across various scenarios.

We will import and aggregate the relevant metrics and measure how they are impacted by the testing process and experiments. Below are the mentioned key objectives for testing.

- To ensure that the website functions correctly and performs as expected across different scenarios.
- To validate the proper functionality of key features like registration, login, product search, product filtering, product pages, and shopping cart.
- To determine the appropriate testing tools to be used throughout the testing process.
- To define the approach and methodology for conducting the tests.
- To identify, document, and report any defects or issues found within the application.

4. Scope

- **In-Scope:**
 - Registration functionality (user creation)
 - Login functionality (user authentication)
 - Product search and filters
 - Product pages and product details
 - Shopping cart (adding/removing items, checkout process)
- **Out of Scope:**
 - Payment Gateway Testing (if not part of the current test cycle)
 - Security Testing
 - Performance Testing

5. Test Strategy

- **Test Types:**
 - **Functional Testing:** Verify if the features work as per the specifications.
 - **Usability Testing:** Verify user-friendliness and ease of navigation.
 - **Compatibility Testing:** Test across various browsers and devices.
 - **Regression Testing:** Ensure that new changes do not affect existing functionality.
- **Test Environment:**
 - Browsers: Chrome, Firefox, Safari, Edge
 - Devices: Desktop, Mobile Android
 - OS: Windows 10
- **Test Tools:**
 - Manual testing (Primary)
 - Browser DevTools (for performance and debugging)
 - Test Case Management Tool: [Your Tool Here, if applicable]

6. Features to be Tested

1. **Registration:**
 - Test creating a new user account (valid and invalid inputs)
 - Test required fields (Name, Email, Password, etc.)
 - Test email validation
 - Test successful registration and redirection to the homepage/dashboard
2. **Login:**
 - Test logging in with valid credentials
 - Test logging in with invalid credentials (incorrect email/password)
 - Test password reset functionality
3. **Product Search:**
 - Test search for products by name
 - Test search using partial names
 - Test no results scenario
 - Test search results accuracy
4. **Product Filters:**
 - Test filtering by price range
 - Test filtering by categories
 - Test filtering by ratings
 - Test the combination of multiple filters
5. **Product Pages:**
 - Test viewing product details
 - Test availability of product reviews and ratings
 - Test adding products to the cart from product pages
 - Test product quantity selection
6. **Shopping Cart Functionality:**
 - Test adding products to the cart
 - Test updating product quantity
 - Test removing products from the cart
 - Test the visibility of cart updates (price, quantity)
 - Test cart persistence (items should remain in the cart after session)

7.Features Not To Be Tested

1.Payment Gateway Testing

- Payment methods such as credit/debit cards, PayPal, or other gateways are not tested.
- Testing of payment-related transactions, such as verifying successful or failed transactions is not included.
- Validations of payment flows, including refunds, cancellations, and chargebacks, will not be performed.

2.Security Testing

- This includes testing for vulnerabilities like SQL injection, Cross-Site Scripting(XSS), Cross-Site Request Forgery (CSRF), and other security-related concerns.
- Authentication and authorization mechanisms, including ensuring that users can only access their data, will not be tested.
- Session security, password storage, and encryption methods are outside the scope of this testing cycle.

3.Performance Testing

- Load and stress testing, such as simulating high traffic or analysing the system's behaviour under heavy load, is not part of the current test cycle.
- Response times, scalability, and resource utilization testing are not covered in this cycle.
- Testing of site performance across various devices, browsers, or network speeds will not be included.

8. Test Deliverables

- **Test Cases:** A list of test cases for each feature/module.
- **Test Execution Report:** Details of executed tests with their outcomes.
- **Defects Report:** Any issues found during testing.
- **Test Closure Report:** Summary of test execution and defect resolution.

The below are the entry and exit criteria for each phase of the software testing life cycle.

Requirement Analysis

Entry Criteria

- Once the testing team receives the Requirements Documents or details about the project.

Exit Criteria

- List of Requirements are explored and understood by the testing team.
- Doubts are cleared.

Test Execution

Entry Criteria

- Test scenarios and test case documents are signed-off by the client
- Application is ready for testing

Exit Criteria

- Test Case reports, defects reports are ready.

Test Closure

Entry Criteria

- Test Case reports, defects reports are ready.

Exit Criteria

- Test Summary Reports

9. Resources

Testers:

Testing Domain	Name
Functional Testing	Abhinab Talukdar
Usability Testing	Abhinab Talukdar
Regression Testing	Rahul Sharma

Test Environment Setup:

The operating systems and version that will be used for testing, such as Windows 10.

The browsers and versions that will be tested, such as Google Chrome, Mozilla Firefox, or Microsoft Edge.

The device types and screen sizes that will be used for testing, such as desktop computers, laptops and smartphones.

The network connectivity and bandwidth that will be available for testing, such as Wi-Fi, cellular, or wired connections.

The hardware and software requirements for running the test cases, such as a specific processor, memory, or storage capacity.

The security protocols and authentication that will be used to access the test environment, such as passwords, tokens, or certificates.

Windows 10 – Chrome, Firefox and Edge

Android Mobile OS – Chrome

Tools Required:

The following are the list of Tools we will be using in this Project:

- JIRA Bug Tracking Tool
- Mind map Tool
- Snipping Screenshot Tool
- Word and Excel documents

10. Schedule

Test Activity	Start Date	End Date	Responsible person
Test Execution (Registration)	11-05-2024	12-05-2024	Abhinab Talukdar
Test Execution (Login)	12-05-2024	13-05-2024	Abhinab Talukdar
Test Execution (Product Search)	13-05-2024	13-05-2024	Abhinab Talukdar
Test Execution (Filters)	13-05-2024	14-05-2024	Abhinab Talukdar
Test Execution (Product Pages)	14-05-2024	14-05-2024	Abhinab Talukdar
Test Execution (Shopping Cart)	14-05-2024	15-05-2024	Abhinab Talukdar
Defect Reporting & Retesting	10-06-2024	13-06-2024	Abhinab Talukdar
Test Closure	14-06-2024	20-06-2024	Raghuvendra Nath

Testing will take place 4 weeks prior to the launch date. The first round of testing should be completed in 1 week.

11. Risk and Mitigation

- **Risk:** Delays in feature availability
 - **Mitigation:** Prioritize testing based on feature release timelines.
- **Risk:** Environment setup delays
 - **Mitigation:** Ensure pre-test environment setup is completed before execution begins.

12. Test Cases

Test cases for each module (e.g., Registration, Login, etc.) will be created based on the specific test scenarios outlined in this plan. The test cases will include:

- **Test Case ID**
- **Test Description**
- **Test Data**
- **Expected Result**
- **Actual Result**
- **Pass/Fail Criteria**

13. Defect Reporting Procedure

- The criteria for identifying a defect, such as deviation from the requirements, user experience issues, or technical errors.

- The steps for reporting a defect, such as using a designated template, providing detailed reproduction steps, and attaching screenshots or logs.
- The process for triaging and prioritizing defects, such as assigning severity and priority levels, and assigning them to the appropriate team members for investigation and resolution.
- The tools and systems that will be used for tracking and managing defects, such as a defect tracking software or a project management tool.
- The roles and responsibilities of the team members involved in the defect reporting process, such as testers, developers, and the test lead.
- The communication channels and frequencies for updating stakeholders on the progress and status of defects.
- The metrics that will be used to measure the effectiveness of the defect reporting process, such as the number of defects found, the time taken to resolve them, and the percentage of defects that were successfully fixed.

Tools-JIRA

14.Approvals

The test manager and product manger both must agree on completion of the testing project and determine when it's ready to proceed to the next step.

15. Conclusion

This test plan provides a structured approach to validate the functionality of key e-commerce features on the QAfox website. Successful execution will ensure that the website provides a seamless experience for users.