

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

The Test Plan outlines the strategy, approach and methodology for testing the [Qafox](#) E-Commerce website. The primary objective is to ensure the website functions as expected across all supported devices and browsers, with key features such as Registration, Login, Product Search, Product Filters, Product Pages, and Shopping Cart Functionality working flawlessly.

The target audience for this document includes the testing team, project managers, developers and stakeholders.

3. Test Objectives

In this document of the Test Plan for the E-Commerce Application QAfox. The goal is to assess 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 meets the functional requirements 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.
 - **Smoke Testing:** Initial tests to ensure that major features are working before detailed testing starts.
- **Test Environment:**
 - **Browsers:** Chrome, Firefox, Safari, Edge
 - **Devices:** Desktop, Mobile Android
 - **OS:** Windows 10
- **Test Tools:**
 - **Manual testing** (Primary method)
 - **Browser DevTools** (Performance and Debugging)
 - **Test Case Management Tool:** Zephyr

6. Features to be Tested

1. **Registration:**
 - Valid and invalid user inputs
 - Required fields (Name, Email, Password)
 - Email validation
 - Redirection to homepage/dashboard upon successful registration.
2. **Login:**
 - Login with valid credentials
 - Login with invalid credentials (incorrect email/password)
 - Password reset functionality
3. **Product Search:**
 - Search by product name
 - Partial name search
 - No results scenario
 - Accurate search results based on entered criteria
4. **Product Filters:**

- Filters by price range
- Filters by categories
- Filters by ratings
- Combination of multiple filters

5. **Product Pages:**

- Viewing product details (images, price, specifications)
- Product reviews by visibility and ratings
- Adding products to the cart from the product page

6. **Shopping Cart Functionality:**

- Adding/Removing products
- Updating product quantities
- Cart updates reflecting immediately (price, quantity)
- Cart persistence after session ends

7.Features Not To Be Tested

1.Payment Gateway Testing

- Payment methods (credit/debit cards, PayPal) are out of scope.
- Transaction verifications, including refunds or chargebacks, are not part of this cycle.

2.Security Testing

- Vulnerability tests such as SQL injection, XSS, and CSRF are excluded.
- Authentication mechanisms and session security will not be tested.

3.Performance Testing

- Stress testing, load testing, and response time evaluations are not included.
- Scalability and network performance are outside the current scope.

8. Test Deliverables

- **Test Cases:** Comprehensive list of all test cases for each feature/module.
- **Test Execution Report:** Results of executed tests with outcomes.
- **Defects Report:** Detailed list of defects found, including severity, status, and resolution.
- **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 guidelines and adjust if needed.
- **Risk:** Test Environment setup delays
 - **Mitigation:** Ensure pre-test environment setup is completed at least one week before before execution begins.
- **Risk:** Insufficient test coverage due to time constraints
 - Focus on high priority features and use automation for regression testing.

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

- **Defect Identification:** Any deviation from the requirements or user experience issues.
- **Defect Reporting:** Using JIRA with detailed steps to reproduce, screenshots, and logs.
- **Defect Triaging:** Severity and priority levels assigned to each project.
- **Defect Tracking:** Regular updates to stakeholders on the status of defects.

14.Approvals

- **Test Manager Approval**
- **Product Manager Approval**

Test Plan approved by: Ankit Singhal

Date: 1st May,2024

15. Conclusion

This Test Plan ensures that the key functionalities of the Qafox e-commerce website are thoroughly tested for correctness, performance, and user experience. Upon successful execution, the website will provide a seamless, bug-free shopping experience for users.