Test Plan for Bikroy.com

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| **Document Author:** | **Document Version:** | **Revised Date:** | **Approved By:** |
| Ruma Akter | 1.0 | Feb 5th, 2023 | ------- |

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## **Introduction**

Bikroy.com is a popular online marketplace in Bangladesh for buying and selling a variety of items such as electronics, vehicles, property, and more. This site is accessible in both Bangla and English. General people are their target customers and they are able to attract various customers consistently every year for their good customer services.

**Main Functionality:**

* Buyers can browse and search for items listed by sellers in various categories.
* If anyone want to know more about product details, he or she can contact with the seller by Bikroy.com messaging service.
* Sellers can create an account and list their items for sale with descriptions and images.
* Buyers and sellers can communicate through the platform's messaging system.
* Sellers also can share their personal contact number with their ads. Because, if anyone prefers to contact with the seller directly, they can just call them and talk with them.

**Navigation:**

* The website has a simple and user-friendly interface with a top menu bar that includes categories, search bar, and links to account and support.
* Categories can be accessed from the main menu and subcategories can be further explored by clicking on them.

**User Flow:**

* Users can browse the website without logging in but to list an item or message a seller, they need to create an account.
* Buyers can search for items by keywords, location, or category.
* If they find an item they are interested in, they can send a message to the seller through the platform to ask questions or make an offer.
* If the buyer agrees on the price and terms, they can proceed with the purchase.

Overall, Bikroy.com provides a convenient platform for buyers and sellers to connect and transact.

***Website URL:*** [***https://bikroy.com***](https://bikroy.com)

## **Test Items** Top of Form

Bottom of Form

* 1. *Feature to be tested:*

**Search functionality:**

* Search for an item using keywords and verify the results.
* Search for an item using a combination of keywords and filters and verify the results.

**Browsing:**

* Browse items by category and verify that the correct items are displayed.
* Browse items by price range and verify that the correct items are displayed.

**Item details:**

* View item details and verify that all the information is displayed correctly.
* Verify that images and videos of the item are displayed correctly.
* Verify that the seller information is displayed correctly.

**Product (Filter, Sub Category, Price, Discount)**

* Ability to sort by price, popular and newest.
* Ability to filter by top rated, Sale, Express Shipping, price, color, brands.
* Should have “Show more/ Show less” features for color and brand.
* Should have more options for the products.
* Able to click on products.
* Should show a clickable cart sign on the product view.
* Should have a slide page number.
* Should show price on each and every product.
* Should be able to show an express shipping logo for a specific product.

**Purchase:**

* Add an item to the cart and verify that the item is added successfully.
* Proceed to checkout and verify that the total amount is calculated correctly.
* Choose a payment method and verify that the payment gateway is integrated correctly.

**User account management:**

* Register a new user account and verify that the account is created successfully.
* Log in to the user account and verify that the user is able to access their account.
* Update user account information and verify that the information is updated successfully.

**Messaging:**

* Send a message to the seller and verify that the message is sent successfully.
* Reply to a message from the seller and verify that the reply is sent successfully.

## **Quality Objective:**

The objective of this Test Plan is to ensure reliability, system assurance and optimum performance and capacity utilization. This test plan focuses on comparing the performance of application with respective to end user expectations with the current and new production environment. Basically, testing enhancement and update to the existing system.

## **Test Methodologies:**

This project will be following agile methodology and work will be updated based on weekly iteration. The work is distributed on and will be followed according to requirement-based strategy specified in detail in this test plan. Each feature will be tested separately and along with each other after each phase and reports should be delivered according to the schedule. Test Cases should be created during exploratory testing. Testing methodologies (In scope/Out Scope) are given below:

***4.1 Test Levels:***

**Scope of testing:**

**Functional testing:** (a Black-box type testing geared to the functional requirements of this application)

* Verify the functionality of the website, including searching, browsing, and purchasing items, messaging, user account management.
* Validate that the website meets the requirements and specifications.
* Check the website for errors, inconsistencies, and discrepancies.

**Usability testing:**

* Evaluate the website's user experience and user interface design.
* Verify that the website is easy to use and navigate.
* Test the website on different devices and screen sizes.

**Compatibility testing:**

* Verify the website's compatibility with different browsers and operating systems.
* Check the website's behavior and performance on different devices and platforms.

**Cross-browser Testing**

* check whether the system is supported in every browser

**Integration Testing**

* to verify the combined functionality after integration

**Performance testing:**

* Evaluate the website's performance, including response time, load time, and scalability.
* Verify that the website can handle high traffic and large data sets.

**Regression testing:**

* Verify that changes to the website, such as bug fixes and new features, do not affect the existing functionality.
* Test the website after each change or release.

**Out of Scope:**

1. Database Testing.
2. Security testing:

* Validate the website's security features, such as SSL encryption, user authentication, and data protection.
* Verify that the website is secure from threats, such as SQL injection, cross-site scripting, and cross-site request forgery.

**Automated testing:**

Automated testing involves using software tools to execute test cases automatically. This approach can be used to test the website's functionality more quickly and accurately than manual testing, and it can be easily repeated for regression testing. Automated testing can be performed using tools such as Selenium WebDriver, Appium, and JUnit. The following areas can be automated:

* Search functionality
* Item details
* Purchase
* User account management
* Messaging

Both manual and automated testing, along with performance testing, security testing, and usability testing, can be used together to provide a comprehensive test coverage of the bikroy.com website. By combining these testing methodologies, you can ensure the quality, security, and user experience of the website.

***4.2 Test Strategy:***

**Test Cases Preparation & Execution:**

* QA will be preparing test cases. This will cover all scenarios for requirements.
* Peer review will be conducted from time to time for test cases and test matrix by QA Lead.
* (Actual Result with Expected Result-> Pass/Fail) Test result will be updated in the test case document.

**Defect Logging and Reporting:**

* QA will log the defect/bugs in the prospective management tool. After this, QA will inform the respective developer about the defect/bugs that have been logged.

**Retesting:**

* Respective QA will Retest for fixed bugs after it is resolved by the respective developer. Bug/defect status will be updated accordingly. In certain cases, if its required then regression testing will be done.

***Deployment/Delivery****:*

* Once all bugs/ defects that have been reported after complete testing are fixed, afterwards if no other bugs are found, the report will be deployed to the test site by PM.
* Once QA is done with the round of testing on the test site and if it is required Report will be delivered along with sample output by email to the respective team member.
* QA will hand over the hard copy of delivery documents to the respective developer.

## **Criteria**

* 1. *Entry Criteria*
* QA resources have completely understood the requirements.
* QA resources have sound knowledge of functionality.
* Test Scenarios & Cases Approved.
* All the necessary documentation, design, and requirements information should be available that will allow testers to operate the system and judge the correct behavior.

## **Suspension Criteria & Resumption Requirement**

|  |  |
| --- | --- |
| Suspension Criteria: | Resumption Requirement |
| If the start of the testing is delayed due to design tasks, the test cannot be extended beyond the User Acceptance Testing scheduled start date. | Some buffers have been added to the schedule for contingencies, although not as much as best practice advice. |
| Server issues. | Server should be in check/renewed from time to time. |
| New feature/functionality added during the testing phase. | Extend the resting cycle or remove test requirements/ expectations. |

## **Resources & Environment Needs.**

8.1 Resources

|  |  |
| --- | --- |
| Description | Tool |
| Need a Database server which install MySQL server Web server which install Apache Server | Server |
| Setup a LAN Gigabit and 1 internet line with the speed at least 5 Mb/s | Network |
| Windows 10, Ram 4GB, CPU 3.4GHZ, | Computer |

8.2 Testing Tools

|  |  |
| --- | --- |
| Process | Tool |
| Test Case creation | Microsoft Excel |
| Test Case Tracking | Microsoft Excel |
| Test Case Execution | Manual, Selenium WebDriver, Junit, Apache JMeter. |
| Test Case Management | Microsoft Excel |
| Defect Management | Jira |
| Test Reporting | Microsoft Excel & Jira |

8.3 Configuration Management: GitHub

8.4 Test Environment:

Support level (browsers): Windows 10: Edge, Chrome (latest), Firefox (latest), Safari (latest) , Eclipse(latest).

Mac OS X: Chrome (latest), Firefox (latest), Safari (latest)

## **9.Test Schedule**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task Name | Start | Finish | Done BY | Estimated Time |
| Test Planning | 01/02/23 | 01/02/23 | Ruma Akter | 3 hours |
| Review Requirements documents | 01/02/23 | 01/02/23 | Ruma Akter | 30 minutes |
| Create test basis | 04/02/23 | 15/02/23 | Ruma Akter | 30 minutes |
| Staff and train new test resources | \_\_ | \_\_\_ | Ruma Akter | 30 minutes |
| First deploy to QA test environment | 07/02/23 | 07/02/23 | Ruma Akter | 2 hours |
| Functional testing:  Iteration 1 | 07/02/23 | 09/02/23 | Ruma Akter | 2 hours |
| Iteration 2 deploy to QA test environment | 09/02/23 | 11/02/23 | Ruma Akter | 30 minutes |
| Functional testing – Iteration 2 | 11/02/23 | 15/02/23 | Ruma Akter | 30 minutes |
| System testing | 11/02/23 | 12/02/23 | Ruma Akter | 2 hours |
| Regression testing | 11/02/23 | 12/02/23 | Ruma Akter | 4 hours |
| User Acceptance Testing | 11/02/23 | 12/02/23 | Ruma Akter | 2 hours |
| Resolution of final Bug and final build testing | 11/02/23 | 12/02/23 | Ruma Akter | 3 hours |
| Deploy to Staging environment | 12/02/23 | 12/03/23 | **Future work** |  |
| Performance testing | 12/02/23 | 13/02/23 | Ruma Akter | 30 minutes |
| Release the website production | 13/02/23 | 13/02/23 | **Future work** |  |

## ***11. Deliveries***

Test deliverables are provided as below:

Before testing phase

* Test plans document.
* Test cases documents
* Test Design specifications.

During the testing

- Test Tool Simulators.

- Test Data

- Test Trace-ability Matrix - Error logs and execution logs.

After the testing cycles is over

* Test Results/reports
* Bug Report
* Test procedures guidelines
* Release notes

## **Approvals**

|  |  |  |  |
| --- | --- | --- | --- |
| Approved By | Approval Tittle | Date | Attachment |
| 1. X | Product Manager | 24 - Jan – 2023 | None |
| 1. Y | QA Lead | 24 - Jan - 2023 | None |