

QA Plan : Bikroy

1. A description of the website and its features, including the main functionality, navigation, and user flow

Bikroy is a well-known online marketplace that links buyers and sellers in a number of areas, including employment, services, gadgets, mobile phones, desktops, laptops, different electronics devices, cars, real estate, and many more. It acts as a one-stop shop where people and companies in Bangladesh may purchase and sell new or used goods and services.

Main Functionalities of Bikroy:.....

- ❖ User Accounts: In order to manage their listings, keep track of orders, like things, and interact with other users, users can register accounts. Through this account, the user is able to manage information.
- ❖ Search and Filters: The website has robust search features with filters to make it easier for customers to locate particular goods or services quickly, as well as products related to the search.
- ❖ Communication between Buyer & Seller : Bikroy.com's integrated messaging system lets users ask questions about listings and conduct negotiations between buyers and sellers.
- ❖ Catalog Listings: Users can make listings to sell goods in a variety of categories, including employment, services, real estate, gadgets, and cars.
- ❖ Safety precautions: The site uses options to report offensive or abusive content in addition to safety precautions and moderation to guarantee user security and confidence.
- ❖ Mobile App: Bikroy.com provides customers with a seamless mobile browsing, purchasing, and selling experience with its mobile app, available for both the Android and iOS operating systems.
- ❖ Buy & Sell: To purchase or sell goods and services, users can look through a variety of categories and advertisements.
- ❖ Attribute highlighted listings: To boost exposure and draw in more customers, sellers can advertise their listings by selecting a highlighted placement option.
- ❖ User Evaluations: By providing feedback and ratings for products and vendors, users can assist other users in making well-informed purchases.
- ❖ Customer Services: If a user has any questions, concerns, or disagreements about their transactions or account management, Bikroy.com offers customer assistance.
- ❖ Interacting with Social Media: The platform is designed to seamlessly connect with various social media platforms, allowing users to easily share listings or log in, thereby improving user engagement and expanding reach.
- ❖ Notifications: To keep users updated about important activity on the site, users receive notifications for new communications, product updates, and order statuses.

Navigation

- ❖ **Categories:** Bikroy.com provides access to a large number of categories, including employment, services, vehicles, gadgets, and real estate. Either the homepage or the main navigation menu can be used by users to browse through these categories.
- ❖ **Quick Links:** Users can save time and effort when navigating by using quick links, which give them easy access to frequently used features, categories, or resources. Users may quickly locate and get the information they need without having to go through numerous pages or menus by presenting quick links prominently on the interface. Bikroy's Quick Links area streamlines customers browsing and shopping experiences by giving them easy access to key features, categories, and resources.
- ❖ **Homepage:** The homepage offers an overview of trending categories and featured listings. It also acts as the website's entry point. The search bar can be used to locate specific items, or users can easily browse through featured listings.
- ❖ **Visible Search Box:** Every page has a visible search bar that enables users to look up certain goods, services, or keywords. In order to filter search results based on a variety of parameters, users can submit queries for search.
- ❖ **Filters In Search:** Using criteria like price range, location, and more, users can improve the results of their searches. Through the use of filters, users can quickly and effectively identify relevant listings by limiting search results based on particular preferences.
- ❖ **Footer Section:** Footer section of Bikroy.com includes website's About Us, Contact Us, Help & Support, Blog and Guide, and Terms of Use, are included in the bottom section. The footer menu provides users with access to helpful information and services.

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In Bikroy, there are numerous possible scenarios for the user flow. A few of the basic scenarios are provided to help you understand the fundamentals of Bikroy's common user flow

❖ **Category Selection:**

1. By clicking on the target category links or utilizing the search bar to locate particular products, users are able to navigate to specific categories of interest.
2. Users can refine their search within each category by using filters like price range, location, condition, and more.

❖ Registration/Login:

1. Users can choose to create a new account or sign in to an existing one if they want to move forward with purchasing or selling goods.
2. Additional capabilities, including managing listings, storing favorite goods, and interacting with other users, are available to registered users.

- ❖ Buying from seller:

1. Buyer can search for the targeted gadget.
2. Buyers who wish to purchase items can add desired items to Save Ad.
3. User can contact with the Owner of the product for further information and details
4. Buyer can confirm the purchase with the seller.

❖ Seller's Advertisement

1. While logged in, proceed to the "Post Your Ad" section, which is usually reachable through the main navigation homepage.
2. Select the category that best fits the seller's category. Bikroy.com provides a large number of categories, including jobs, services, autos, gadgets, real estate, and many more.
3. Completion of the fields that are necessary for the advertisement, such as the title, description, price, location, and contact details. Additionally, sellers can add pictures to promote goods.
4. Sellers can contact buyers who want to purchase through the integrated messaging system on Bikroy.com. Sellers are able to reply to questions, give more details, and bargain conditions with purchasers immediately.

2 & 5. A list of test cases and test scenarios, covering the website's main functionality, such as searching, browsing, and purchasing items, as well as any additional features like messaging, user account management, and payment gateway integration.

A report on the expected results and any potential issues, including the expected outcome of each test case and any identified bugs, along with recommendations for addressing them.

A link is added of the test cases and test scenarios including expected & actual result of each test case as well as bug screenshot to address them easily:

https://docs.google.com/spreadsheets/d/1oNgC2_T-iO_z5nsQd_SxSyTSpSPKPFRy918EyfHSlv4/edit?usp=sharing

3. An explanation of the testing methodologies that will be used, including manual testing, automated testing, and any other tools and techniques that you believe are necessary to ensure the quality of the website.

Different testing methodologies that need to ensure the quality of this website. Attaching some of the fundamental testing techniques for this website.

- ❖ Exploratory Testing: We can use exploratory testing techniques to identify unusual features, usability challenges, or edge cases. Exploratory testing is done without any predefined scripts that allow testers to think outside the box, try numerous workflows and observe the system's behavior.
- ❖ Functional Testing: Software testing that confirms a software system's functionality is known as functional testing. Its main goal is to make sure that the system functions in a way that satisfies expected customer needs. To ensure the quality of Bikroy we need functional testing. Through testing we can check the functionality of different features such as user registration, login, search, messaging, listing creation etc.
- ❖ Automation Testing: Is the process of automating the execution of tests through the use of software tools and scripts. It reduces the manual effort and repetitive tasks. To implement automation testing in Bikroy.com first, we need to decide which test scenarios can be automated. One of the popular automation testing tools selenium webdriver can be used to implement.
- ❖ User Acceptance Testing (UAT): User Acceptance Testing is a software development phase where the software is tested by its real target users. This testing technique is vital for a software for a long run. We need to verify if Bikroy.com satisfies user expectations and needs in order to make sure it achieves its objectives.

- ❖ API Testing: API Testing is a process that confirms that an API is working as it should work. We can use Postman as a tool for verifying the API's. Create test cases to verify API requests and answers, ensuring that input validation, error correction, and return status codes are all addressed.
- ❖ Performance Testing: Performance testing is a software testing procedure used to evaluate a website's responsiveness, speed, stability, and reliability. We can Implement this testing technique in Bikroy.com for better performance of this system. For performance testing we use tools like JMeter.
- ❖ Manual Testing: Manual testing is a good choice to make sure of the system's performance including end users experience, website's functionality, usability that allows a complete and exploratory testing to find problems that automated testing might overlook. This technique is done in numerous ways such as functional testing, usability testing, regression testing, and acceptance testing etc.
- ❖ Security Testing: Security Testing should be done to protect Bikroy's website so that any unauthorized and illegal access can be denied. Security testing techniques such as penetration testing, vulnerability scanning, security code reviews can be performed to identify security flaws.

4. A schedule for testing, including timelines for test execution, bug reporting, and retesting, as well as a list of resources required, such as test environments, test data, and test scripts.

Here's a sample schedule for testing Bikroy.com including timelines for test execution, bug reporting, and retesting, as well as a list of resources required.

Scheduling Testing of Bikroy.com project

Task	Time Duration
Creating Test Plan	30/05/2024 — 01/05/2024
Test Case Creation	01/05/2024 — 01/05/2024
Test Case Execution	01/05/2024 — 04/05/2024
Bug Reporting	2 Days
Bug Fixing & Retesting	1 week
Final Testing and Sign-off	4 Days

Resources required for Bikroy.com

Test Environment:

1. Test Environment: a production environment copy that is used to test variations prior to their deployment to the live environment. To make sure the testing results, it should be closely similar to the production environment.

Test Data

1. End Users Data: To test user registration, login, profile management, and interaction functionalities, sample data representing various user profiles is created and implemented.
2. Product Data: Sample data representing various products on Bikroy.com for testing search functionality, filtering, conversion between users and so on. This includes different categories, product descriptions, images, and pricing information.

Test Scripts

1. Manual Test Scripts: Test cases that are documented and address many testing types like compatibility, usability, and functional testing.
2. Automation Test Scripts: Automation test scripts are developed using automation testing frameworks such as selenium webdriver. These scripts reduce a lot of repetitive tasks that fasts the test process.

Test Tools

Tools for implementing different testing techniques

Testing Technique	Testing Tool
Automation Testing	Selenium WebDriver
Bug Tracking	Jira
API Testing	Postman
Performance Testing	JMeter
Manual Testing	Xmind
Security Testing	Burp Suite