



American International University-Bangladesh (AIUB)

Department of Computer Science

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Section: F

Software Quality Assurance and Testing

Bikroy.COM

Group-6

A Report submitted

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Software Test Plan

for

Bikroy.com

Version 1.0 approved

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American International University-Bangladesh (AIUB)

26-Aug-2022

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Revision History

Revision	Date	Updated by	Update Comments
01	2022.12.13	Showrav,karmakar	First Draft
02	2022.12.15	Atanu Das	Second Draft
03	2022.12.17	Showrav ,karmakar	Third Draft
04	2022.12.18	Neamul Rahim	Forth Draft
05	2022.12.19	Showrav ,karmakar	Fifth Draft
06	2022.12.22	Atanu Das	Sixth Draft
07	2022.12.24	Tamal Paul	Seventh Draft

1. TEST PLAN IDENTIFIER: RS-MTP01.3([Bikroy.com](https://www.bikroy.com))

2. REFERENCES

- a) <https://bikroy.com/>
- b) <https://www.blazemeter.com/blog/chrome-extension-selenium>
- c) <https://bnblog.bikroy.com/jobs>
- d) <https://dzone.com/articles/11-reasons-why-go-for-automation-testing-using-selenium>

3. INTRODUCTION

3.1 Background to the Problem

In our daily life sometimes, we need to buy what we need or sell products for money instantly. But without advertisement we can't do that properly. Sometimes we are searching for the best deals and different product options. But in generally this is not possible. In that time we doesn't get any proper solution.

3.2 Solution to the Problem

Here the main goal of Bikroy.com is to make peoples life easy. You don't have to go outside to buy and sell your used or unused products. You can simply signup an account and search for the product you want to buy from the huge list or sell the product by creating advertisement with proper details by staying in your home and get the best deals.

4. REQUEIREMNT SPECIFICATION

System Features

4.1 Sign Up:

Functional Requirements

1. System must allow new users to sign up to the system.
2. User have to provide their valid first name, last name, email, phone number and reason for choosing bikroy.com
3. A verification code will be sent to the user email or phone number to verify their ID.
4. If verification is successful than they are registered to the system, if not verified then verification code is sent again.

Priority level: High.

Precondition: User must have a valid email address or phone number

4.2 Login:

Functional Requirements

1. If user is already registered to the system, then he/she can directly login to the system by providing his/her email or phone number and password.
2. If by mistakenly email/phone number or password is wrong more than 3 times then system will not allow to login to the system and will send verification code to the user to reset the account.

Priority level: High.

Precondition: User have valid username and password.

4.3 : Database Job Search

Functional Requirements

1. If User hasn't created a profile then he is not allowed to send emails to job providers.
2. After Searching for jobs user is not allowed to view job details. **Priority level:** Medium.

Precondition: User must have logged in into the account and provided a meaningful job name.

4.4 Profile Database Shortlist :

Functional Requirements

1. After searching in Profile Database, System must allow to shortlist job providers profiles.
2. System must not allow users to view job details if the user doesn't have a job profile

Priority level: LOW

Precondition: User must have valid username and password

4.5 Report_Duplicate_Ads:

Functional Requirements

1. If there is any duplicate ad, then the system must allow to report any ad after clicking "Report this ad" for report.
- 2 After Entering Description of that ad and clicking Send button, system must allow to report.

Priority level: High.

Precondition: No need any precondition

4.6 Check Link Validation:

Functional Requirements

1. After clicking any random links page must redirect to that page.

Priority level: Medium.

Precondition: User must have to click some random links.

4.7 Post Ad:

Functional Requirements

1. After clicking Post ads button, system must redirect to posts page.
2. After entering valid user and product information, system must allow to post an ad.

Priority level: High

Precondition: User must be logged into website.

4.8 Number Verification :

Functional Requirements

1. After entering valid Phone number, system must send a OTP.
2. After entering the valid OTP, system must show Phone Number Verification Confirmation.

Priority level: High

Precondition: User must be Enter their valid phone number

4.9 Update Profile :

Functional Requirements

1. After Clicking 'My Account', system must redirect to settings page.
2. After Entering valid 'name', 'location', and 'Sub-location' and Clicking 'Update Details' system Show the updated information.

Priority level: High

Precondition: User must have to login to the system & go to his account profile.

4.10 Search

Functional Requirements

1. After searching in the search bar, System must show the accurate result from its database.

Priority level: Low

Precondition: User must be logged in to the system

4.11 Message Sending Feature:

Functional Requirements

1. After Clicking a post system must show the full post.
2. If user is logged in, then the system must allow to send message to the seller.

Priority level: High

Precondition: User must be logged in to the system

4.12. Payment Module (Online)

Functional Requirements

- 1 After selecting Doorstep Delivery, System must redirect to Products page.
2. After selecting a product, and clicking Order Online, System must redirect to Orders page.
3. After Entering valid personal Information and clicking Pay Now, System must redirect to the home page of bkaash.

Priority level: High

Precondition: User must be logged in to the system

4.13 Payment Module (COD)

Functional Requirements

- 1 After selecting Doorstep Delivery, System must redirect to Products page.
2. After selecting a product, and clicking Order Online, System must redirect to Orders page.
3. After Entering valid personal Information and clicking Cash on Delivery, System must send an OTP code to the phone number and redirect to OTP page.
4. After Entering valid OTP, system must show Order confirmation message.

Priority level: High

Precondition: User must be logged in and must enter valid OTP code.

4.14 Chatting Feature:

Functional Requirements

1. After selecting Chat option, System must open chat page.
2. After Clicking text option, and typing a text, system must allow to send the message to the seller.

Priority level: Medium

Precondition: User must be logged in to the system

4.15 Blog Post Search feature:

Functional Requirements

1. After clicking blog attribute in the website, System must redirect to Blogs page.
2. After Searching in the search bar, System must show searched blog posts.

Priority level: Low

Precondition: User must visit bikroy.com's blog page.

4.16 Ads Browsing

Functional Requirements

1. After Clicking all ads from the website System must show all ad posts of the sellers.
2. After Selecting a particular option from the category System must open the post.
3. System must allow to Shortlist the search result to find some specific ads. ler.

Priority level: Medium

Precondition: User must visit bikroy.com's Home page to browse ads.

5. FEATURES NOT TO BE TESTED

The following is a list of the areas that will not be specifically addressed. All testing in these areas will be indirect as a result of other testing efforts. For example:

1. A User can contact to hotline number of bikroy.com.
2. A User can chat with a job provider using the application. He can also attend meetings using the application.
3. User can post banner ads by paying money.
4. User can complain about any seller for their misbehavior.

6. TESTING APPROACH

- **Unit Testing:**
- **Integration Testing:**
- **System Testing:**
- **Acceptance Testing:**

6.1 Testing Levels

1. **SYSTEM/INTEGRATION:** Integration testing aims to check the correctness of communication among all the modules. Testing is performed by the test manager and team leader with other testers. Programs will enter into System/Integration test finally critical defects are corrected. There's a bit around for the error. The testing team will check these modules and check the incompatibility.

As **BIKROY.COM** has already been built, the compatibility between modules has been checked.

2. **UNIT TESTING** is generally done by the developer, then the results are authorized by the team lead. Before unit testing is additionally accepted and passed on to the test person, the programmer must submit proof of unit testing (test case list, sample output, data printouts, defect information). The test person will receive all unit test information moreover. Here different functionalities of the modules has been tested as unit test.

3 ACCEPTANCE The customer will do ACCEPTANCE testing with the assistance of the test manager and team leader. After the System/Integration test is completed, the acceptance test will run in parallel with the prevailing manual process for two weeks. Here bikroy.com is a running website and its functionalities has been tested as acceptance testing.

6.2 Test Tools

Here, for the testing purpose Selenium IDE browser extension, a testing tool has been used to test. The Selenium IDE is a browser extension that records and plays back a users

The Selenium IDE is a browser extension that records and plays back a user's actions. Selenium's Integrated Development Environment (Selenium IDE) is an easy-to-use browser extension that records a user's actions in the browser using existing Selenium commands, with parameters defined by the context of each element.

6.3 Meetings:

In this entire project we attended meetings using Messenger app and Microsoft Teams every one or two days in a week. In the meetings group members discussed about

project advancements and suggested for improving test designs and necessary stuffs. Additional meetings were called as needed for emergency situations.

7. TEST CASES/TEST ITEMS (bikroy.com)

7.1 Sign Up: This Test case is for testing the Sign Up details

Test Case ID: FR_1		Test Designed date:6/12/22		
Test Priority (Low, Medium, High): HIGH		Test Executed by: Paul Tamal		
Module Name: Sign Up validation		Test Execution date:18/12/22		
Test Title: verify users details while signing up.				
Description: Test when user give invalid username and password it shows error.				
Precondition (If any): User must have a valid email address.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Click Login 3.Click “Continue with Email ”	Username: tama.paul.com Password: 1234	User shouldn’t login into the application	As expected,	Pass
Post Condition: User is validated with database and successfully logged in to the account. The account session details are logged in the database.				

7.2 Login Logout:

Test Case ID: FR_2			Test Designed date:6/12/22	
Test Priority (Low, Medium, High): HIGH			Test Executed by: Paul Tamal	
Module Name: Login Logout			Test Execution date: 19/12/22	
Test Title: verify login with valid username and password				
Description: Test website login page				
Precondition: User must have valid username and password				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Enter username 3. Enter password 4. Click submit	Username: Paul Password: *****	User should login into the application	As expected,	Pass

Post Condition: User is validated with database and successfully login to account. The account session details are logged in the database.

7.3 Database Job Search

Test Case ID: FR_3		Test Designed date:7/12/22		
Test Priority (Low, Medium, High): Medium		Test Executed by: Paul Tamal		
Module Name: Database_Job_Search		Test Execution date:19/12/22		
Test Title: Job Search In BikroyJobs's Database				
Description: Testing search work or not and would search button give the proper suggestions or not.				
Precondition (If any): User must have logged in into the account				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Enter My Account 3. Enter Profile Database 4. Click Search	PHP, Software Engineer	User should find proper job suggestions	As expected,	Pass
Post Condition: User is validated with database and successfully login to account. The account session details are logged in the database.				

7.4 Profile Database Shortlist

Test Case ID: FR_4		Test Designed date:6/12/22		
Test Priority (Low, Medium, High): LOW		Test Executed by: Paul Tamal		
Module Name: Profile_Database_Shortlist		Test Execution date:19/12/22		
Test Title: Short List From Job Database				
Description: Test user can Shortlisted job vacancies and Removed it				
Precondition (If any): User must have valid username and password				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Enter Post Ad 3. Enter Profile Database 4. Search 5. Click Shortlist	Click Shortlist, Check Shortlist, Remove Shortlist	User should add and remove shortlisted job	As expected,	Pass

Post Condition: User is validated with database and successfully login to account. The account session details are logged in the database.

7.5 Report Duplicate Ads

Test Case ID: FR_5		Test Designed date:5/12/22		
Test Priority (Low, Medium, High): HIGH		Test Executed by: Paul Tamal		
Module Name: Report_Duplicate_Ads		Test Execution date:19/12/22		
Test Title: Report Product if there Multiple Ads of the same product with same user				
Description: Test user report duplicate ads				
Precondition (If any): No need any precondition				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Select Any category 3. Click “Report this ad” 4. Enter Description 5. Click Send	Reason: Duplicate Email: tamal.paul@gmail.com Message: I’ve seen this ad before.	User should report properly	As expected,	Pass
Post Condition: If User want to buy any product then they need to have an account.				

7.6 Check Link Validation :

Test Case ID: FR_06		Test Designed date: 7.12.2022		
Test Priority (Low, Medium, High): Medium		Test Executed by: Atanu Das		
Module Name: Check Link Validation		Test Execution date:22.12.2022		
Test Title: Verify if all the links work properly or not				
Description: Test if there is any expired link or not.				
Precondition (If any): User must be logged into website.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Click random links	There is no testable data for this test module	User should access all the link and visit the webpages.	As expected,	Pass

Post Condition: User must have to click some random links.

7.7 Post Ad :

Test Case ID: FR_07		Test Designed date: 7.12.2022		
Test Priority (Low, Medium, High): High		Test Executed by: Atanu Das		
Module Name: Post Ad		Test Execution date:23.12.2022		
Test Title: Verify if any ad can be posted or not.				
Description: Test Ad by posting.				
Precondition (If any): User must be logged into website.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Go into 'Post your Ad option'. 3. Select preferable choices and fill in all the-necessary information. 4. Finally, submit the 'Post Your ad' button.	Posting ads by providing all the necessary information and images.	Users post ads and should get information in his/her account	As expected,	Pass
Post Condition: User can successfully post ad.				

7.8 Number Verification

Test Case ID: FR_08		Test Designed date: 7.12.2022		
Test Priority (Low, Medium, High): High		Test Executed by: Atanu Das		
Module Name: Number Verification		Test Execution date:23.12.2022		
Test Title: Verify if any invalid number accepts or not.				
Description: Phone Number verification testing.				
Precondition (If any): User must be Enter their valid phone number				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)

1. Go to the website 2. Invalid Number won't be accepted 3. Enter the Valid Phone Number 4. Enter OTP	By entering valid & invalid numbers.	By giving a valid number and OTP, the user can log in to his/her account otherwise it's not possible.	As expected,	Pass
Post Condition: User can successfully login to his/her account.				

7.9 Update Profile

Test Case ID: FR_09		Test Designed date: 8.12.2022		
Test Priority (Low, Medium, High): High		Test Executed by: Atanu Das		
Module Name: Update Profile		Test Execution date: 23.12.2022		
Test Title: Test update profile with proper information				
Description: Test account & settings page.				
Precondition (If any): User must have to login to the system & go to his account profile				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Login to the website 2. Click 'MyAccount' 3. Go to settings. 4. Enter 'name', 'location', and 'Sublocation'. 5. Click 'Update Details'.	Name- Atanu Location- Chattogram Sublocation- Jamalkhan	Information provided by user should be verified & updated for profile	As expected,	Pass
Post Condition: User Information is verified. Edit profile has been done successfully.				

7.10 Search

Test Case ID: FR_10		Test Designed date: 24.12.2022		
Test Priority (Low, Medium, High): High		Test Executed by: Atanu Das		
Module Name: Search.		Test Execution date: 24.12.2022		
Test Title: Test search on page.				
Description: Test if search module works properly or not.				

Precondition (If any): User must have to login to the system.

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Login to the website 2. Click on the search placeholder and search random things.	By searching for random things to test.	Searched things should be shown.	As expected,	Pass

Post Condition: User can see the searched things.

7.11 Message Sending Feature

Test Case ID: FR_11	Test Designed date: 24.12.2022			
Test Priority (Low, Medium, High): High	Test Executed by: Showrav ,karmakar			
Module Name: Message Send	Test Execution date: 24.12.2022			
Test Title: Test Chat module.				
Description: Test if any file media can be sent or not.				
Precondition (If any): User must have to login to the system				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Login to the website 2. Searching things and going into detail about that thing 3. Here, one can chat with the owner. 4. Media items like pictures, videos, or messages can be sent to them.	Sending media items to test.	Items should be sent to the owner and he/she can view them and can respond back.	As expected,	Pass
Post Condition: User can communicate with owner by sending media items.				

7.12 Payment Module (Online)

This Test case is for testing the Payment Module (online)

Test Case ID: FR_12	Test Designed date: 7/12/22
Test Priority :High	Test Executed by: Showrav ,karmakar
Module Name: Payment (Online)	Test Execution date: 13/12/22
Test Title: Select Bkash As an Online Payment Method	

Description: After Ordering a product, Select a online Payment Method and test whether Bkash is available to send money or not.				
Precondition (If any): User must be logged in.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website and select Doorstep Delivery 2. Click Explore and select a Product 3. Click Order Online 4. Enter personal Information and continue 5. Select Pay Now and continue 6. Select bKash and click make Payment 7. Enter bKash Account number and click Confirm 8. Enter Valid OTP and click Confirm	Name: Oscar deb Phone number: 01760044342 Address for Delivery: 131 hk dash road Nearest Area: Luxmi Bazar bKash Account number: 01234567890 OTP: 0123	User should not be able to pay the amount without valid bKash Information.	As expected,	Pass
Post Condition: User Has successfully paid the price of product using bKash providing valid Information.				

7.13 Payment Module (COD)

This Test case is for testing the Payment Module (COD)

Test Case ID: FR_13	Test Designed date: 6/12/22
Test Priority : High	Test Executed by: Showrav ,karmakar
Module Name: Payment Method using COD(Cash On Delivery)	Test Execution date: 14/12/22
Test Title: Select COD As a Payment Method and confirm a order to purchase.	
Description: After Ordering a product, Select COD as a Payment Method and test whether process is working not.	

Precondition: User must be logged in.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website and select Doorstep Delivery. 2. Click Explore and select a Product. 3. Click Order Online 4. Enter Personal Information and continue. 5. Select Cash on delivery and continue 6. Enter OTP and click Confirm	Name: Oscar deb Phone number: 01760044342 Address for Delivery: 131 hk dash road Nearest Area: Luxmi Bazar OTP:0123	User should not be able to confirm order entering an invalid OTP.	As expected,	Pass
Post Condition: User should get the verification code and confirm it and get the order confirmation message in his mobile.				

7.14 Chatting feature

This Test case is for testing the Chatting feature

Test Case ID: FR_14			Test Designed date: 7/12/22	
Test Priority :Medium			Test Executed by: Showrav ,karmakar	
Module Name: Chatting			Test Execution date: 14/12/22	
Test Title: Select Chat option and chat with a seller.				
Description: After Selecting Chat option chat with a seller.				
Precondition: User must be logged in.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website and select Chat 2. Click on the text option. 3. Type a message. 4. Send message.	Text: How much price is this?	Users message should be sent.	As expected,	Pass
Post Condition: User should see Just now text after his message is sent.				

7.15 Blog Post Search feature

This Test case is for testing the Blog Post Search feature

Test Case ID: FR_15			Test Designed date: 8/12/22	
Test Priority : Low			Test Executed by: Showrav ,karmakar	
Module Name: Blog Post Search			Test Execution date: 17/12/22	
Test Title: Search a blog post in the blog section				
Description: After Selecting blog attribute, go to the blog page and search for a particular blog post.				
Precondition: User must visit bikroy.com's blog page.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website and click blog attribute 2. Search in the search bar. 3. Select a particular blog post.	Text: Jobs	Users should get a search result according to his search.	As expected,	Pass
Post Condition: User can comment in the post.				

7.16 Ads Browsing

This Test case is for testing the Chatting feature

Test Case ID: FR_16			Test Designed date: 7/12/22	
Test Priority :Medium			Test Executed by: Showrav,karmakar	
Module Name: Ads Browsing			Test Execution date: 18/12/22	
Test Title: Test Ads given by the sellers.				
Description: After clicking on all ads attribute, select a particular category and browse ads given by the sellers.				
Precondition: User must visit bikroy.com's Home page to browse ads.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)

1. Go to the website and click all ads 2. Select a particular option from the category. 3. Shortlist the search result to find some specific ads.	Text: mobile	Users should get sellers posts as ads in the search result.	As expected,	Pass
Post Condition: User can contact any seller by clicking and ads				

8. ITEM PASS/FAIL CRITERIA

The expected result is the pass/fail criteria for that step. If the test step was executed and the expected result did occur and was recorded and can be confirmed, then that test step can be considered to have passed and the test step's requirement is verified. Otherwise, it will be failed. All the major functionality of the application should work as intended and the pass percentage of test cases should be more than 95% and there should not be any critical bugs. So, in this case total 16 test cases were implemented for the site (Bikroy.com). Find some minor error but no major defects were found. Ensuring all the high-priority test cases are tested. Finally, all the test cases were successfully executed and thus passed the test.

9. TESTING SCHEDULE

Time has been allocated within the project plan for the following testing activities. The specific dates and times for each activity are defined in the project plan timeline. The persons required for each process are detailed in the project timeline and plan as well. Coordination of the personnel required for each task, test team, development team, management and customer will be handled by the project manager in conjunction with the development and test team leaders. Schedule must be done using any PM tool.

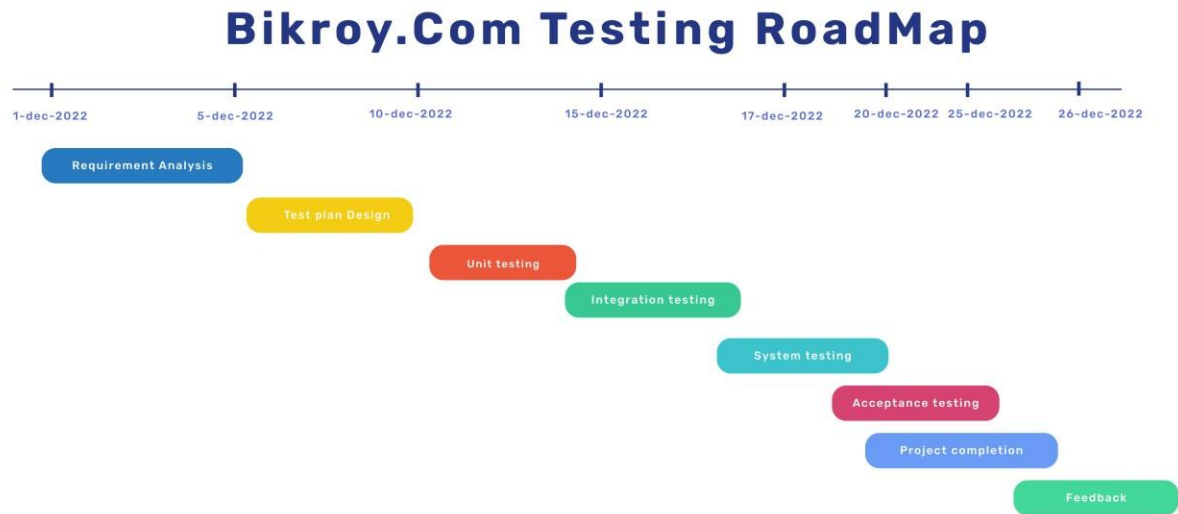


Figure: Testing RoadMap 10

PLANNING RISKS AND CONTINGENCIES:

The test cases has been done as it was planned. If we could execute more test cases, it would be better to test more features and the system could become a more risk Free system.

Thank You ❤️