



American International University-Bangladesh (AIUB)

Department of Computer Science

Faculty of Science & Technology (FST)

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Section: F

Software Quality Assurance and Testing

PATHAO

A Report submitted

By

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Software Test Plan

for

PATHAO

Version 8.3.1 approved

Prepared by <author>

<organization>

<date created>

Checked By Industry Personnel

Name:

Designation:

Company:

Sign:

Date:

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Revision History

Revision	Date	Updated by	Update Comments
0.1	2022.08.19	Rifat Mahabub Chowdhury	First Draft
0.2	2022.08.19	Rifat Mahabub Chowdhury	Second Draft
0.3	2022.08.19	Rifat Mahabub Chowdhury	Third Draft
0.4	2022.08.19	Rifat Mahabub Chowdhury	Fourth Draft
0.5	2022.08.21	Marzana Bintay Tuba	Fifth Draft
0.6	2022.08.21	Marzana Bintay Tuba	Sixth Draft
0.7	2022.08.21	Marzana Bintay Tuba	Seventh Draft
0.8	2022.08.21	Marzana Bintay Tuba	Eight Draft
0.9	2022.08.23	Badhan Akter	Ninth Draft
0.10	2022.08.23	Badhan Akter	Tenth Draft
0.11	2022.08.23	Badhan Akter	Eleventh Draft

1. TEST PLAN IDENTIFIER: RS-MTP01.3

2. REFERENCES

- <https://pathao.com/>
- <https://www.taxifarefinder.com/main.php?city=Uber-X-New-Delhi-India>
- <https://india.isidewith.com/en/polls>
- <https://www.stechinasia.com/pathao-go-jek-bangladesh>

3. INTRODUCTION

Background to the Problem

The objective of this document is the test to functionality of the “RS-MTP01.3”. In developing countries like Bangladesh, one of the key indicators for economic development is the advancement of transportation and communication system and ride-sharing is one of them. Hence, the wide array of online-based service industries such as app-based ride-sharing, travel tickets, online procurement, etc. are in a boom which reduces the amount of effort needed, time, and cost of mobility from one place to another (Tang and Wang, et al., 2017). The ride-sharing services have an immense role in case of social, economic, sustainability and environmental issues by reduction traffic jams, making minimum number of vehicles on the road (Hansan et al., 2010). Due to the availability of smartphones and wide access to the internet, different app-based services have increased drastically as it is helpful to identify the nearest vehicles within the shortest possible time. Apart from this, it facilitates to easily track driver’s location, expected destination, and computerized fixation of fares virtually on screen by mobile app (Chen et al., 2011).

Solution to the Problem

Pathao can use GPS with the help of google map because it allows customers to know the exact location of riders. This is because in most cases, customers have to wait beyond the specified time or when they call the riders, in many cases, they do not want to say the exact location. In that case, if they keep their GPS connected through google map, customers will know the exact location of the ride and will also save their time. And for their convenience, if they can make new additions or changes to the GPS feature, they will also be able to get information about the location of the customers. Customer satisfaction is very important for success in any business and it is a must- have, for any affiliate, promoting any program as Pathao is a company that has many competitors. In that case, if the customer does not get good service for any reason, he will naturally give priority to substitute companies. So, for the convenience of their customers, Pathao needs to add a ‘Complaint Box Section’ in their app, so customers can write and highlight their problems and discuss what to do about them. As a result, the authorities will be able to take the necessary steps to solve the

problems of the customers. Through these, the brand value of the patio company will increase and business success will increase. The fare displayed in the Pathao App may increase once the customer arrives at their destination. It's a major flaw in their app. As a result, many customers have expressed their dissatisfaction. Before taking the ride, the fare may increase to double what is displayed in the app. As a result, the Pathao company must address the problem in this app as soon as possible.

4. REQUEIREMNT SPECIFICATION

4.1 System Features

1. System Sign Up:

Functional Requirements

- 1.1** The software allows new users to create an account.
- 1.2** User have to provide his/her valid phone number. After that a verification code will be sent on that number to verify their number.
- 1.3** If the verification is successful than they are registered to the system, if not the user can make a request to resend the code.
- 1.4** After verification, user have to provide his/her Name, Email, Gender and Date of Birth.

Priority Level: High

Precondition: User must have valid phone number

2. System Login:

Functional Requirements

- 2.1** A verification code will be sent to the user's given phone number.
- 2.2** If user has already registered to the software, then he/she can directly login to the software by providing his/her phone number.

Priority Level: High

Precondition: User have valid user id and phone number

3. System All Services:

Functional Requirements

- 3.1** System provides all services option where user can find many options like Bike, Car, Food, Parcel, Tong, Shop, Courier, Pharma, top-up health and Bongo.
- 3.2** From this feature user can select any option which he/she need.

Priority Level: High

Precondition: User have to logged in to the system

4. System Food:

Functional Requirements

- 4.1 User will find a lot of restaurants here.
- 4.2 User can search restaurants, set any restaurants as favorites, filter restaurants.
- 4.3 User can order from the restaurants by providing his/her location. User can apply promo codes if available. After ordering the food, they can check how long it will take time to come.

Priority Level: High

Precondition: User have to logged in to the system

5. System Car:

Functional Requirements

- 5.1 To rake a car ride, user can select Car service.
- 5.2 User can request for car by providing destination and pickup location.
- 5.3 Clicking on confirm destination, user can see how much it will cost to take a ride.
- 5.4 Sending pickup request, car will be searched for the user.
- 5.5 If any car is found for the user, user can see how will drive the car, driver's rating and car information.
- 5.6 User can send message or call to the car driver.
- 5.7 User can apply promo codes if available. After request confirmation, he/she can check where the car is and how long it will take time to come.

Priority Level: High

Precondition: User have to logged in to the system

6. System Bike:

Functional Requirements

- 6.1 To rake a bike ride, user can select Bike service.
- 6.2 User can request for bike by providing destination and pickup location.
- 6.3 Clicking on confirm destination, user can see how much it will cost to take a ride.
- 6.4 Clicking on send pickup request, bike will be searched for the user.
- 6.5 If any bike is found for the user, user can see how will drive the bike, drivers rating and bike information.
- 6.6 User can send message or call to the bike driver.
- 6.7 User can apply promo codes if available. After request confirmation, he/she can check where the bike is and how long it will take time to come.

Priority Level: High

Precondition: User have to logged in to the system

7. System Parcel:

Functional Requirements

- 7.1** To send any parcel, user can select Parcel service.
- 7.2** User have to select where he/she wants to send the parcel and have to provide the destination and pickup location.
- 7.3** User have to provide receiver's details. For example: receiver's phone number, receiver's name.
- 7.4** Clicking on confirm receiver, user can see receiver details, distance, cost of sending the parcel and who will pay the cost ender or receiver option.
- 7.5** Clicking on send request, request will be sent to deliver the parcel.

Priority Level: Medium

Precondition: User have to logged in to the system

8. System Notification:

Functional Requirements

- 8.1** The user will get notifications of the offers and promo codes.

Priority Level: Medium

Precondition: User have to logged in to the system

5. FEATURES NOT TO BE TESTED

For most features, it is impossible to perform a complete test. To do full features testing it will take more time and will also increase the project cost. All testing in these areas will be indirect as a result of other testing efforts. For example:

Update Profile: In this function, basically user can update his/her information like her name, phone number, email, gender and date of birth. For now, these features will not be tested because without updating profile user can login to the system as they already have been registered and their valid information are stored in the system. So, for now this feature is in low priority.

Accounts and Settings: In this function, user can mainly change language, give permission, give ratings to the app. By default, language will be English. But for now, this is not a high-prioritize feature it is now in low priority. We will not test this feature for now.

Permissions: In this function, user can give permissions for location access, camera access, gallery access, contact access and device state. Only the actual users can do these stuffs. For this reason, this feature is not tested.

Rate us: User can give ratings depending on how much they like or dislike this software. As this feature is user based that's why it is not tested.

6. TESTING APPROACH

6.1 Testing Levels

The PATHAO testing will only consist of Acceptance test levels.

- **UNIT Testing:** Unit testing means individual testing and it is also white box testing. When a developer completes a module, the developer compiles that module to ensure the module is working. The software, we are working with is PATHAO; it has been built already. So, we did not perform Unit testing.
- **SYSTEM/INTEGRATION Testing:** Integration testing aims to check the correctness of communication among all the modules. It is performed by the test manager and development team leader with assistance from the individual developers as required. When developers develop two or more modules in a system, the testing team will join these modules and check the incompatibility. As PATHAO has already been built, no Integration testing is occurred here.
- **ACCEPTANCE Testing:** It is formal testing. This testing phase verifies the entire illness of the customer's requirement. The Customer/end-user will test the whole system and will give feedback. Only Acceptance testing is conducted to do this project.

6.2 Test Tools

No test tool is used to conduct this project.

6.3 Meetings

Every day our team member will meet to discuss about project advancements and every team member suggestion for improving functionality. Every day our test team will meet to evaluate progress to date and identify error trends and problems as early as possible. Every day our team leader meet with development and project manager. All modules will be tested in the first weeks by unit testing, integration testing, & system testing. The whole testing phase will occur in this period by the QA Engineers. If they have any defect, they will solve it and again test the entire module. Additional meetings can be called as needed in emergency situation.

7. TEST CASES/TEST ITEMS

Test Case 01:

Project Name: Pathao		Test Designed by: Rifat Mahabub Chowdhury		
Test Case ID: p111		Test Designed date: 19/08/2022		
Test Priority (Low, Medium, High): High		Test Executed by: Rifat Mahabub Chowdhury		
Module Name: Sign Up Session		Test Execution date: 19/08/2022		
Test Title: Verify login with registered mobile number and password				
Description: Test software login page				
Precondition (If any): User must have valid phone number				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Open the software 2. Enter mobile number 3. Enter OTP 4. Click Next 5. Enter name 6. Enter email 7. Gender 8. Date of Birth 9. Click next	Username: 01862897521 OTP (32581)	User should login into the software	Expected result found.	Pass
Post Condition: User is successfully login to the account. After login, he/she will directly go to the home page.				

Test Case 02:

Project Name: Pathao		Test Designed by: Rifat Mahabub Chowdhury		
Test Case ID: p112		Test Designed date: 19/08/2022		
Test Priority (Low, Medium, High): High		Test Executed by: Rifat Mahabub Chowdhury		
Module Name: Login Session		Test Execution date: 19/08/2022		
Test Title: Verify login with registered mobile number and password.				
Description: Test software login page				
Precondition (If any): User must have registered mobile number				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Open the software 2. Enter mobile number 3. Enter OTP 4. Click Next	Username: 01862897521 OTP (45197)	User should login into the software	Expected result found.	Pass
Post Condition: User is successfully login to the account. After login, he/she will directly go to the home page.				

Test Case 03:

Project Name: Pathao		Test Designed by: Rifat Mahabub Chowdhury		
Test Case ID: p113		Test Designed date: 19/08/2022		
Test Priority (Low, Medium, High): Medium		Test Executed by: Rifat Mahabub Chowdhury		
Module Name: Bike		Test Execution date: 19/08/2022		
Test Title: find the bike location and pick up point				
Description: Test software home page				
Precondition (If any): User must have open home page				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Open homepage 2. Click bike option 3. Search destination 4. Sent pickup request 5. See biker information.	Search destination (kawran bazar) Biker info (Md. Gazi Rahman SK HA 15-2476 Bike Discover 110 01860633886)	User should give correct location and successfully pickup bike	Expected result found.	Pass
Post Condition: User is successfully open home page. After homepage, he/she will directly go to the bike option.				

Test Case 04:

Project Name: Pathao		Test Designed by: Rifat Mahabub Chowdhury		
Test Case ID: p114		Test Designed date: 19/08/2022		
Test Priority (Low, Medium, High): Low		Test Executed by: Rifat Mahabub Chowdhury		
Module Name: Tong		Test Execution date: 19/08/2022		
Test Title: Find the location and sent item				
Description: Test software home page				
Precondition (If any): User must have open home page				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Open home page 2. Click Tong	No store found	Not found	Expected result not found.	Fail
Post Condition: Return to the home page				

Test Case 05:

Project Name: Pathao		Test Designed by: Marzana Bintay Tuba			
Test Case ID: p115		Test Designed date: 21/08/2022			
Test Priority (Low, Medium, High): Medium		Test Executed by: Marzana Bintay Tuba			
Module Name: Car		Test Execution date: 21/08/2022			
Test Title: Find the car location and pick up point					
Description: Test software home page					
Precondition (If any): User must have open home page					
Test Steps		Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Open homepage 2. Click car option 3. Search destination 4. Sent pickup request 5. See biker information.		Search destination (kawran bazar) Driver info (Md. Babul Morol DHK METRO GA 25-1245 Car Plus Corolla)	User should give correct location and successfully pickup car	Expected result found.	Pass
Post Condition: User is successfully open home page. After homepage, he/she will directly go to the Car option.					

Test Case 06:

Project Name: Pathao		Test Designed by: Marzana Bintay Tuba		
Test Case ID: p116		Test Designed date: 21/08/2022		
Test Priority (Low, Medium, High): High		Test Executed by: Marzana Bintay Tuba		
Module Name: Food		Test Execution date: 21/08/2022		
Test Title: Search food and restaurant				
Description: Test software home page				
Precondition (If any): User must have open home page				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Open home page 2. Click Food option 3. Search food and restaurant 4. Select and checkout 5. Place order 6. Confirm	Search food and restaurant (Burger Club Bashundhara) Checkout (edit address additional instruction)	User should give correct address and successfully pick food	Expected result found.	Pass
Post Condition: User is successfully open home page. After homepage, he/she will directly ordered food from selective restaurant.				

Test Case 07:

Project Name: Pathao		Test Designed by: Marzana Bintay Tuba			
Test Case ID: p117		Test Designed date: 21/08/2022			
Test Priority (Low, Medium, High): Low		Test Executed by: Marzana Bintay Tuba			
Module Name: Parcel		Test Execution date: 21/08/2022			
Test Title: find the location and sent parcel					
Description: Test software home page					
Precondition (If any): User must have open home page					
Test Steps		Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Open home page 2. Click parcel 3. Click inside Dhaka 4. Select destination 5. Receiver phone number 6. Receiver name 7. Additional Direction 8. Confirm receive 9. Who will pay 10. Sent request 11. Confirm		Select destination (Uttara sector 11, road 5, house 77/b) Sent request (Delivery person details)	User should give correct address and information then delivery person successfully pick-up the goods for parcel	Expected result found.	Pass
Post Condition: User is successfully open home page. After homepage, he/she will directly can sent parcel by a delivery person					

Test Case 08:

Project Name: Pathao		Test Designed by: Marzana Bintay Tuba		
Test Case ID: p118		Test Designed date: 21/08/2022		
Test Priority (Low, Medium, High): High		Test Executed by: Marzana Bintay Tuba		
Module Name: Location		Test Execution date: 21/08/2022		
Test Title: Set location				
Description: Test set location by searching the location				
Precondition (If any): User have login to the app after that set the location.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click location 2. Select set on map 3. Click set location	Set your location: Set on Map: AIUB gate no.01	User selected location for present address and user should get location conformation in his/her account.	Expected result found.	Pass
Post Condition: User can successfully set the location.				

Test Case 09:

Project Name: Pathao		Test Designed by: Badhan Akter			
Test Case ID: p119		Test Designed date: 23/08/2022			
Test Priority (Low, Medium, High): Low		Test Executed by: Badhan Akter			
Module Name: Shop		Test Execution date: 23/08/2022			
Test Title: find the product and pickup					
Description: Test software home page					
Precondition (If any): User must have open home page					
Test Steps		Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Open home page 2. Click shop 3. Select 5 or more experience 4. Click confirm 5. Add to cart 6. Checkout 7. Place order		Select 5 or more (shop name and product details) Place order (Delivery boy details Delivery time)	User should give correct address and information then delivery person successfully delivered the product	Expected result found.	Pass
Post Condition: User is successfully open home page. After homepage, he/she will directly go to the shop option.					

Test Case 10:

Project Name: Pathao		Test Designed by: Badhan Akter		
Test Case ID: p120		Test Designed date: 23/08/2022		
Test Priority (Low, Medium, High): Low		Test Executed by: Badhan Akter		
Module Name: Pharma		Test Execution date: 23/08/2022		
Test Title: find the location and sent medicine				
Description: Test software home page				
Precondition (If any): User must have open home page				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Open home page 2. Click pharma	No store found	Not found	Expected result not found.	Fail
Post Condition: Return to the home page				

Test Case 11:

Project Name: Pathao		Test Designed by: Badhan Akter			
Test Case ID: p121		Test Designed date: 23/08/2022			
Test Priority (Low, Medium, High): High		Test Executed By: Badhan Akter			
Module name: Update Profile		Test Execution date: 23/08/2022			
Test Title: Update profile is completed with proper information.					
Description: Test account & settings page					
Precondition: User have login to the system after that searched and selected an orphanage					
Test Steps		Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click profile option 2. Enter full name 3. Enter email 4. Enter phone number 5. Enter Gender 6. Enter Date of Birth		Full Name: Badhan Akter Mobile Number: 01234567891 Email: badhon@gmail.com Gender: Female Date of birth: 29-01-2000	User provide information email and phone number should be verified for profile	As expected	Pass
Post Condition: User information email, phone number is verified. Edit profile is done successfully.					

8. ITEM PASS/FAIL CRITERIA

The expected result (outcome or response) is the pass/fail criteria for that step. If the test step was executed and the expected result did occur and was either witnessed or 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.

9. TEST DELIVERABLES

- **Acceptance test plan:** This document deals with what needs to be done in Acceptance Testing and performed by the team members.
- **System/Integration test plan:** Integration testing is not performed.
- **Unit test plans:** Unit testing is not performed.
- **Screen prototypes:** Not applied.
- **Report mock-ups:** Not applied.
- **Defect/Incident reports and summaries:** Every major and minor incident was reported at the time of occurrence.

10. TESTING SCHEDULE

To complete the project in time schedule chart has been done using “Microsoft PowerPoint”. This time schedule has been divided into different task with given time (4weeks) and it will help us to complete their task according to dates. This scheduling will help to complete the project in time.

	week1	week2	week3	week4
Test Plan	Test plan			
Acceptance Testing		Acceptance Testing		
Project Complete			Project Complete	
Feed Back				Feed Back

11. PLANNING RISKS AND CONTINGENCIES

- ❖ Limited Full Time Tester. The dedicated tester has a position unfilled, so it may delay the testing team to run all the tests properly in time.
- ❖ Limited Sales staff has also a position unfilled, which may delay the documentation review as well as the Acceptance test process.
- ❖ Full time tester and sales stuff reassigned.
- ❖ No attempt will be made to bypass any part of the review and testing process.