



American International University-Bangladesh (AIUB)

Department of Computer Science

Faculty of Science & Technology (FST)

Fall 21 22

Section: B

Software Quality Assurance and Testing

MedImpact

(An Online Medical Store)

A Report submitted

By

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Software Test Plan

For

MedImpact

Version 1.0 approved

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American International University Of Bangladesh

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1. TEST PLAN IDENTIFIER: RS-MTP01.3

2. REFERENCES

- Software Requirement Specification (SRS) Document
- High Level Design Document
- Detail Design Document
- Low Level Design Document

3. INTRODUCTION

Background to the Problem

The application is about shipping the medicines from all over the world and to the people in our country. As a third world developing country, we are facing a lot more challenges than the rest of the world, due to COVID-19 pandemic outbreak. The consumers are preferring to purchase medicine online due to covid-19 lockdown. Governments are taking all essential steps for protecting lives by imposing lockdowns, testing, segregation, and treatment. At the same time also restricting outdoor movement except for supplying and procuring essential goods and services. The role of e-commerce in both wholesale and retail trade is continuously growing. According to industry insiders, e-commerce companies have witnessed about 20-30 per cent spike in orders as customers are avoiding visiting crowded places. In this situation, the utmost need for medication delivered in everyone's doorstep, is more than ever. With this obligatory lockdown, delivered medicine is no more a luxury, it is now an absolute necessity. Our objective is to make sure that nobody in any corner of our country has to be deprived of emergency medical supplies.

There are some medicines which can only be found in a few fixed countries. The current scenario of our country is if one wants a particular medicine from abroad, he must have to go and get the medicine for a limited time period all by himself. By thus a huge amount of not only money but also time and energy is wasted. In this current situation, it is quite impossible.

SOLUTION TO THE PROBLEM

The problem of the crisis of regular and rare unavailable medicine from all over the world can be solved using a simple shipping system to buy medicines online. E-pharmacy as the lifeline for cities under lockdown to fight against the pandemic. So, we are thinking about making an application system in which we will make the rare and expensive medicines available anytime from all over the world. As we want to solve this problem, we need to create a system which will save our time & money and provide medicine as soon as possible.

The goal of our application is to make a way that can provide rare medicine available anytime.

4. REQUIREMENT SPECIFICATION

4.1 System Features

4.1.1 User Registration

1.1 The software will provide an interface for the user to login. Beside the login button there will be an option for new user registration or sign up option.

1.2 When the sign-up option is pressed then the user will be taken to a new page where there will be a form that needs to be filled.

1.3 The user will need to provide his or her official name, a recovery email address, mobile number, and address and NID number. As well as 2 unique credentials that are the username and password for that user account.

1.4 Immediately the system will generate random verification code and send it to the user's email address. Users will need to verify that number while logging for the first time.

Priority Level: HIGH

PRECONDITION - Users must have a valid email address and provide authentic personal information.

4.1.2 Login Interface

2.1 The software will provide an interface for the user to login to the system using their username and password.

2.2 After a successful login attempt the user will be taken to the home page of his or her account.

2.3 Upon 3 wrong attempts of login the user shall be blocked for any further

login attempts for next 30 minutes.

2.5 If the user requests a password change request for the reason forgetting password then random verification code will be generated and sent to the user's email address by the system to verify the login session and then the system will prompt for the new password.

Priority Level: HIGH

PRECONDITION - User must have a valid user ID and password.

4.1.3 Search Medicine

3.1 This feature will allow the user to search the medicine that the user wants to ship.

3.2 After successful login attempts the user can browse the medicine database of the website. If the user needs a specific medicine then they can easily use the search box to find that particular medicine.

3.3 Upon entering the name of the medicine into the search box and pressing the search button the user will be shown that medicine if its available. Otherwise the system will show related medicine that may have the same chemical element as of that medicine.

Priority Level: MEDIUM

PRECONDITION - Users must have a valid name for the medicine.

4.1.4 Medicine status (available or not)

4.1 This feature will give an indication to the user whether the medicine in the queue is available or not.

4.2 If the medicine is available then the feature will request the user to provide the quantity. Based on the quantity the user will then show the price and delivery date in the following page. Then it will allow the user to confirm the

shipping.

4.3 If the medicine is unavailable then the feature will request the user if the user still wants to order the medicine. After confirming, the feature will request to provide the quantity. Based on the quantity the user will then show the price and delivery date. Then it will allow the user to confirm the shipping.

Priority Level: HIGH

PRECONDITION - Users must have searched for a particular medicine.

4.1.5 Payment Gateway

5.1 The user can pay through online banking, credit card, debit card, visa card, bkaash, Nagad, rocket or make the payment on cash on delivery. It will simply provide various ways of payment to the user.

5.2 Customers will also need to provide an address where the product will be shipped as well as the receivers contact number.

5.3 Afterwards the customer will get a randomly generated code onto the mobile number in order to verify an authentic order from a valid customer. The customer needs to input it onto the payment gateway interface and verify the order.

Priority Level: HIGH

PRECONDITION - Users must have some items in their cart.

4.1.6 Delivery Status

6.1 This feature will allow the user to see the current status of the product to be shipped. It might still be at the inventory or under a regional delivery company.

6.2 The product might be at the courier office form where the customer will need to pick it up as the product may not support home delivery.

6.3 In case of home delivery after the customer enters the customer verification code of the product into the system software then the delivery status will be "delivered".

Priority Level: MEDIUM

PRECONDITION - An order should be placed earlier.

Cross-references: 7.1 (Customer confirmation code)

4.1.7 Customer confirmation code

7.1 This feature will prompt the user to provide a confirmation code for successful purchase. A verification code is placed onto the receipt that the customer needs to enter to his account in order for successful purchase verification.

Priority Level: MEDIUM

PRECONDITION - Users must have ordered some package from the company.

4.1.8 Report Issue (Provide Feedback)

8.1. It is an essential as well as a very important feature of any software application. Basically, the developers get direct and authentic feedback from the customers. What issues they are facing, what are the positive sides of the system software, its strengths and flaws or shortcomings. Depending on the feedback the company can decide how to modify or extend the current set of features for better user experience.

Priority Level: HIGH

PRECONDITION - Users must have purchased some items from the company.

4.2 System Quality Attributes**1. Availability**

System should be up and running 99% of the time.

Priority Level: High

Preconditions(s): None

Cross-reference: None

2. Integrity

- a. Users should not be able to access other user's accounts.
- b. User emails must be authenticated before signing up.
- c. Users should have a least amount of money before they can add their account details.

Priority Level: High

Preconditions(s): None

Cross-reference: None

3. Maintainability

- a. Any kind of maintenance that directly hampers user experience should be completed under 40min to 1hour.

Priority Level: Medium

Preconditions(s): None

Cross-reference: None

4. Robustness

- a. System should be able to recover state of current information when user re-runs the application after an accidental exit.
- b. System should be able to save states before it crashes and resume when user re-runs the application.

Priority Level: High

Preconditions(s): None

Cross-reference: None

5. Usability

- a. User interfaces should be self-explanatory so that new users can feel right at home without going through tedious documentation and other user guides.

Priority Level: Medium

Preconditions(s): None

Cross-reference: None

6. Interoperability

- a. System should be implementable in different platforms like Windows and Linux or mac systems.

Priority Level: Medium

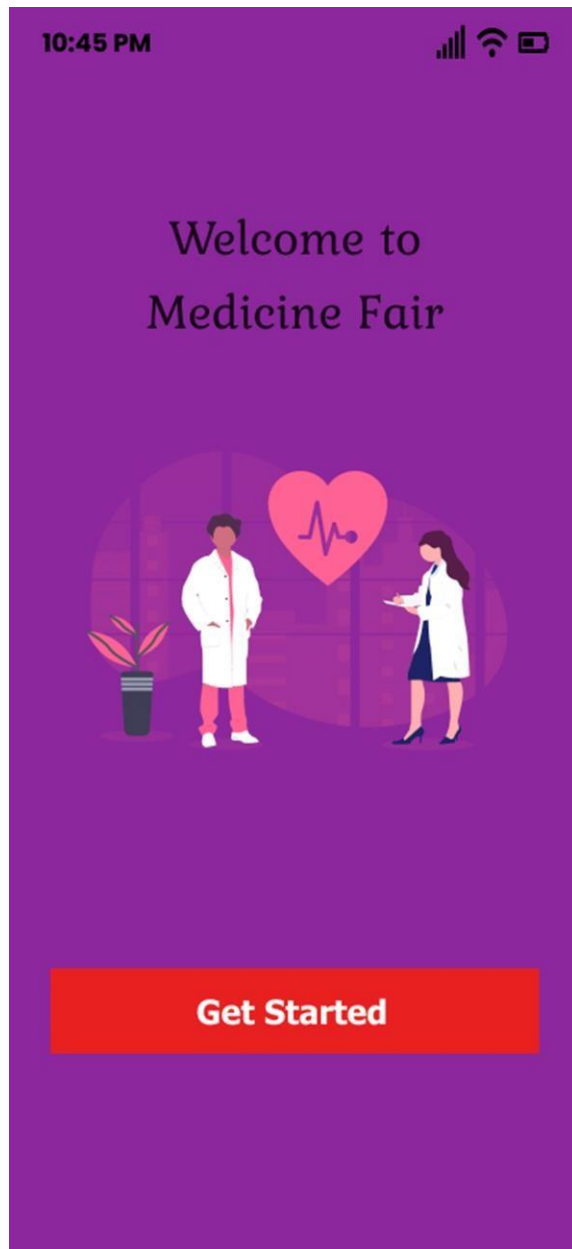
Preconditions(s): None

Cross-reference: None

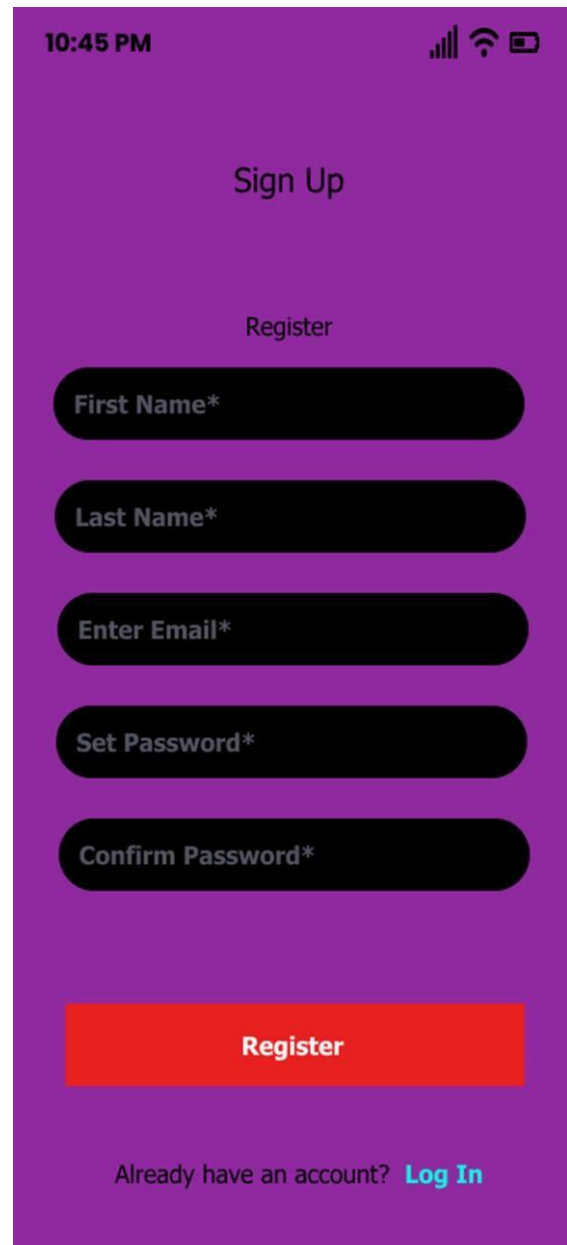
4.3 System Interfaces

ILLUSTRATIVE DESIGN

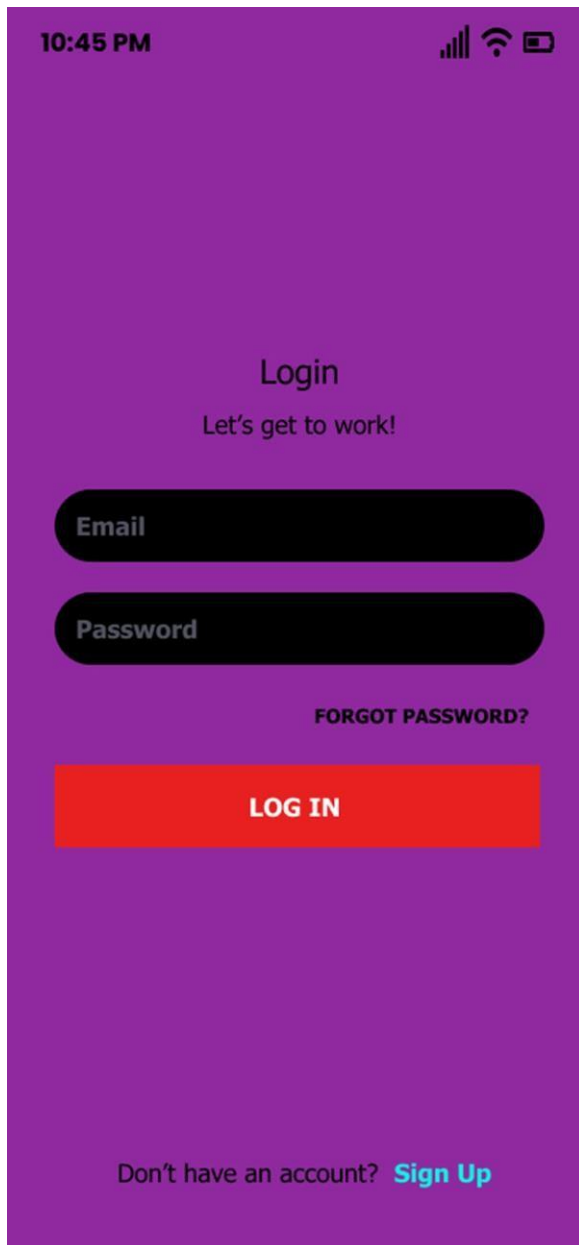
1. Welcome Page



2. Sign Up Page



3. Login Page



10:45 PM

Signal, Wi-Fi, and battery status icons.

Login
Let's get to work!

Email

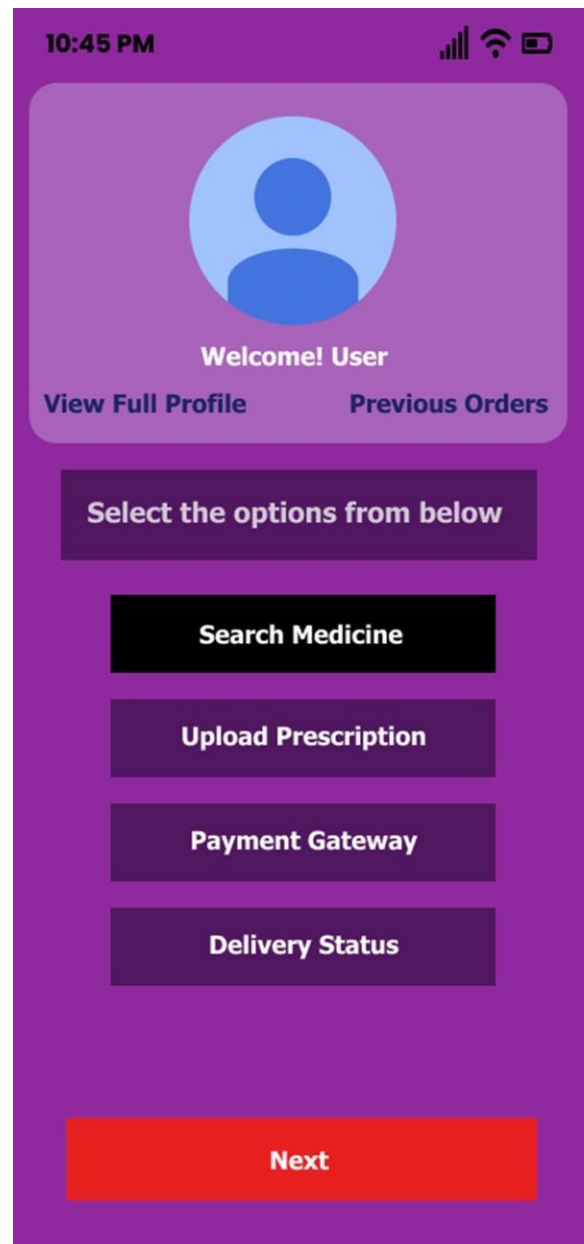
Password

[FORGOT PASSWORD?](#)

LOG IN


Don't have an account? [Sign Up](#)

4. Home Page



10:45 PM

Signal, Wi-Fi, and battery status icons.



Welcome! User

[View Full Profile](#) [Previous Orders](#)

Select the options from below

Search Medicine

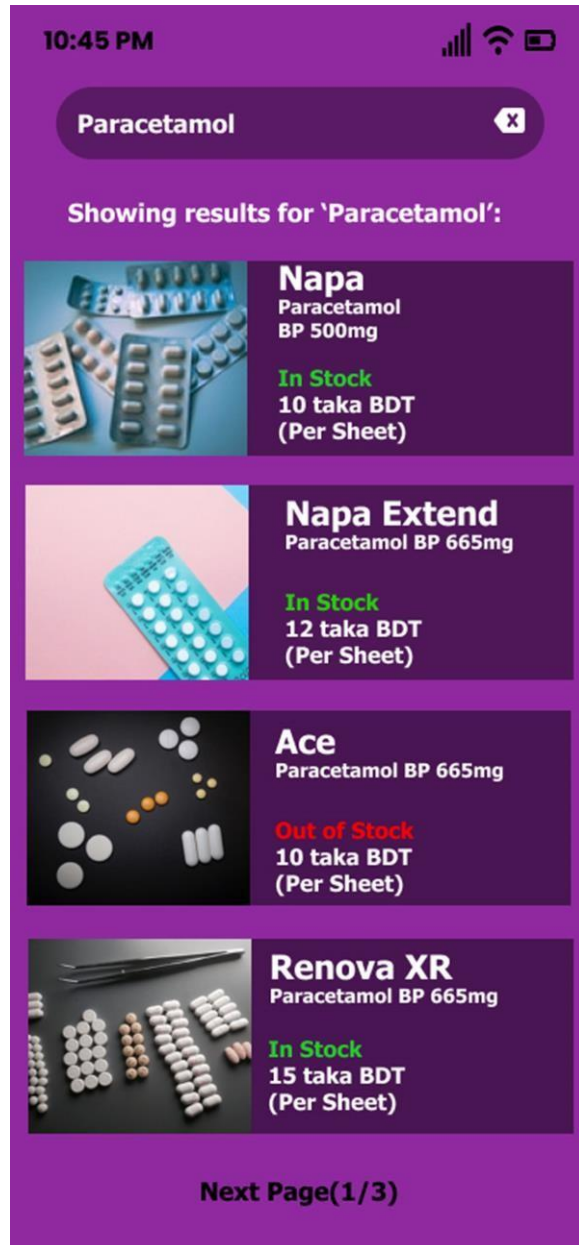
Upload Prescription

Payment Gateway

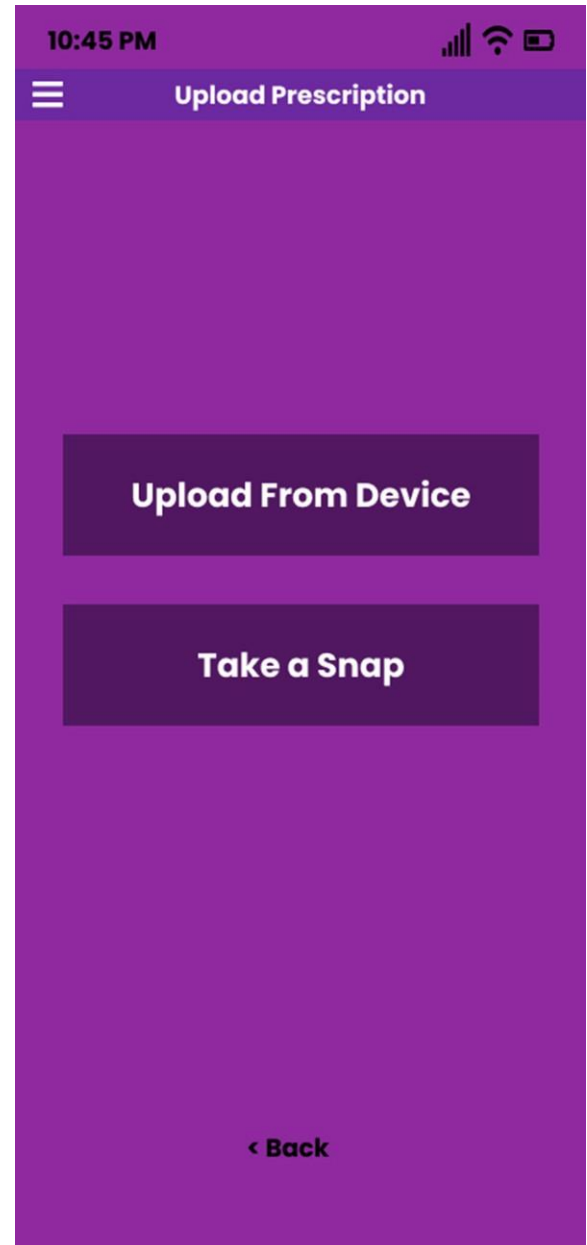
Delivery Status

Next

5. Search Option



6. Upload Description



7. Payment Gateway

10:45 PM

Payment Method

Credit Card

Debit Card

Mobile Banking

CARD DETAILS

Card Type*

Card Number*

Name on Card*

Expiry Date

CVV*

CVV is the last 3 digits in the signature strip on the back of your card.

BILLING INFORMATION

Name

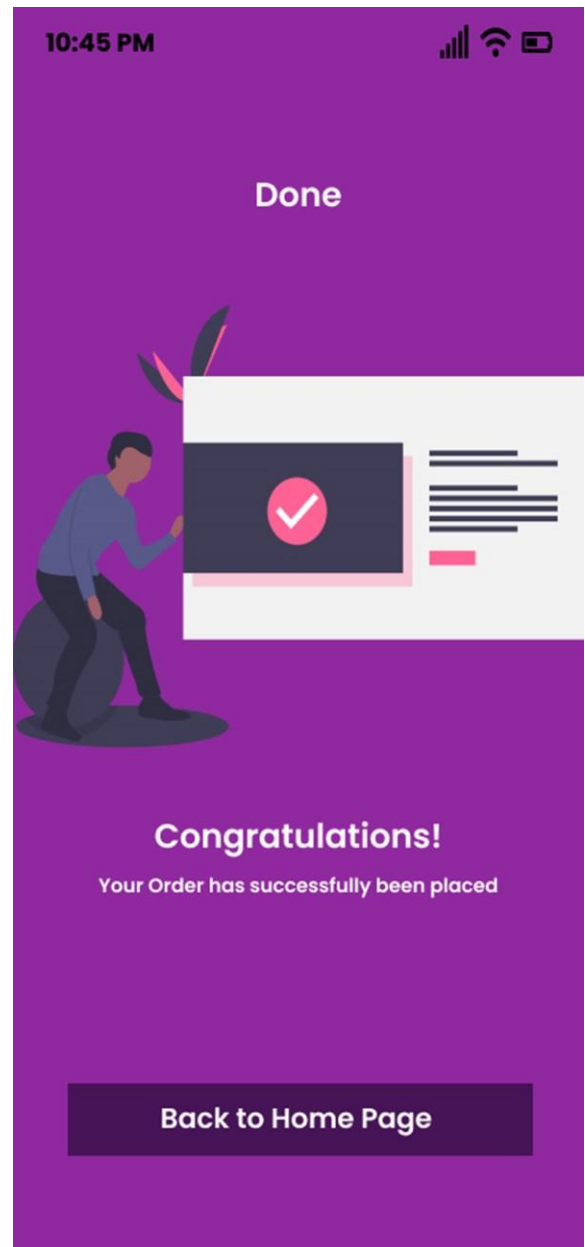
Address*

Contact No*

< Back

Proceed

8. Confirmation



4.4 Project Requirements

1. A working solution should be ready by 5 weeks.
2. The program should not consume more than 200mb storage after installation
3. Developers are preferred to use visual studio for code editing, but can use other editors also
4. Git will be used for default version control system and code managing tool
5. Unit testing will be completed using Selenium
6. Illustrative prototype will be done using Affinity Designer.
7. Interactive prototyping will be done with the help of Pencil
8. Estimated budget for the project is \$2000

5. FEATURES NOT TO BE TESTED

The following is a list of the areas that will not be specifically addressed.

- Compatibility with MacOS and Windows platforms
- Support for Logging out of multiple devices
- Device recognition and verification for future logins without password

6. TESTING APPROACH

6.1 Testing Levels

The testing for the proposed system will include of Unit, System/Integration and Acceptance test levels. Most testing will be done by the test manager as well as the development teams will also participate.

- **UNIT** Testing will be done by the developer and will be approved by the development team leader. Proof of unit testing (test case list, sample output, data printouts, defect information) must be provided by the programmer to the team leader before unit testing will be accepted and passed on to the test person. All unit test information will also be provided to the test person.
- **SYSTEM/INTEGRATION** Testing will be performed by the test manager and development team leader with assistance from the individual developers as

required. No specific test tools are available for this project. Programs will enter into System/Integration test after all critical defects have been corrected.

- **ACCEPTANCE** Testing will be performed by the actual end users with the assistance of the test manager and development team leader.

6.2 Test Tools

The only test tools to be used are the standard AS/400 provided utilities and commands.

- The Program Development Manager (PDM) will be used as the source version configuration management tool in conjunction with the in-house check-in/check-out control utility. The check-in/out utility is part of each developer's standard AS/400 access menu.
- The initial prototypes for the new screens will be developed using the AS/400 Screen Design Aid (SDA). The initial layout and general content of the screens will be shown to the sales administration staff prior to proceeding with testing and development of the screens.
- Selenium can be used during the course of development for unit testing on the go by the developers.

6.3 Meetings

The test team will meet once every two weeks to evaluate progress to date and to identify error trends and problems as early as possible. The test team leader will meet with development and the project manager once every two weeks as well. These two meetings will be scheduled on different weeks. Additional meetings can be called as required for emergency situations.

7. TEST CASES/TEST ITEMS

1. User Registration

Project Name: Medicine Fair			Test Designed by: SHIL, DIPONKOR CHANDRA	
Test Case ID: T_1			Test Designed date: 2.12.2021	
Test Priority (Low, Medium, High): HIGH			Test Executed by: SAJID AL SAKIB	
Module Name: User Registration			Test Execution date: 12.12.2021	
Test Title: Verify user identity.				
Description: Test Registration page. If existing, verify if signing up with valid email and password and see if it works.				
Precondition (If any): User must have entered valid email address.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1.Open the App. 2. Click sign up. 3. Enter valid information . 4. Check email for OTP. 5. Submit the OTP.	Email: abc@gmail.co m Password: 1234 OTP:1186	User should be registered.	As expected	Passed
Post Condition: User is registered.				

2. User Login

Project Name: Medicine Fair			Test Designed by: SHIL, DIPONKOR CHANDRA	
Test Case ID: T_2			Test Designed date: 2.12.2021	
Test Priority (Low, Medium, High): HIGH			Test Executed by: SAJID AL SAKIB	
Module Name: User Login Session			Test Execution date: 12.12.2021	
Test Title: Verify login				
Description: Test login page. See if, user login with valid username and password and it works.				
Precondition (If any): User must enter the email and password which was registered.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1.Go to the App. 2.Enter username. 3. Enter password. 4. Click login.	Username: example10 Password: 1234	User should be able to login to the system.	As expected	Passed
Post Condition: User is validated with database and successfully login to account. The account session details are logged in the database.				

3. Search Medicine

Project Name: Medicine Fair			Test Designed by: MD TAHSINUR RAHMAN	
Test Case ID: T_3			Test Designed date: 2.12.2021	
Test Priority (Low, Medium, High): MEDIUM			Test Executed by: SHIL, DIPONKOR CHANDRA	
Module Name: Search medicine			Test Execution date: 12.12.2021	
Test Title: Verify searching for medicine				
Description: Test searching options and results				
Precondition (If any): Users must enter a valid medicine name or type.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the search bar. 2. Type valid name of a medicine. 3. Click “Search” button.	Paracetamol	Napa, Napa Extend, Ace, Renova XR, Fast plus	As expected	Passed
Post Condition: Search results has been shown.				

4. Medicine Status

Project Name: Medicine Fair			Test Designed by: SAJID AL SAKIB	
Test Case ID: T_4			Test Designed date: 4.12.2021	
Test Priority (Low, Medium, High): HIGH			Test Executed by: MD. TAHSINIR RHMAN	
Module Name: Medicine status			Test Execution date: 12.12.2021	
Test Title: Verify the availability of medicine				
Description: Searched medicine is available or not				
Precondition (If any): Users must have searched for a valid medicine.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the search bar. 2. Type valid name of a medicine. 3. Click “Search” button. 4. Tap on one medicine to check.	Napa Extend	In Stock	As expected	Passed
Post Condition: User can add that to cart if available.				

5. Upload Prescription

Project Name: Medicine Fair			Test Designed by: SAJID AL SAKIB	
Test Case ID: T_5			Test Designed date: 2.12.2021	
Test Priority (Low, Medium, High): HIGH			Test Executed by: MD. TAHSINUR RAHMAN	
Module Name: Upload Prescription			Test Execution date: 12.12.2021	
Test Title: Test the Uploading Option				
Description: Uploading prescription is successful or not				
Precondition (If any): Successful login to the system				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click on the “Upload Prescription” option. 2. Select weather to “upload from device” or “Take a snap”.	Upload a File from Device	Prescription Uploaded.	As expected	Passed
Post Condition: User should get a schedule shortly for consulting with a doctor.				

6. Payment Method

Project Name: Medicine Fair			Test Designed by: SHIL, DIPONKOR CHANDRA	
Test Case ID: T_6			Test Designed date: 2.12.2021	
Test Priority (Low, Medium, High): HIGH			Test Executed by: MD. TAHSINUR RAHMAN	
Module Name: Payment Method			Test Execution date: 12.12.2021	
Test Title: Verify user payment options.				
Description: Test the payment option and the information taken from the user				
Precondition (If any): Users must select a particular payment option and input the valid card information as required.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Login to the system. 2. Search valid name of a medicine. 3. Select Medicin e. 4. Select a payment method. 5. Input valid card information .	Valid card or other payment information selected.	Product should be placed for delivery.	As expected	Passed
Post Condition: Product is ready for delivery.				

7. Customer Confirmation Code

Project Name: Medicine Fair			Test Designed by: SHIL, DIPONKOR CHANDRA	
Test Case ID: T_7			Test Designed date: 2.12.2021	
Test Priority (Low, Medium, High): MEDIUM			Test Executed by: SAJID AL SAKIB	
Module Name: Customer Confirmation Code			Test Execution date: 12.12.2021	
Test Title: Verify Customer Confirmation Code				
Description: Test Customer confirmation code for specific order				
Precondition (If any): Order should be placed				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Login to the system. 2. Search for the medicine. 3. Select a particular medicine. 4. If available click on “Purchase Product”. 5. Select a payment option and proceed.	Code: 78354	Purchase verification successful	As expected	Passed
Post Condition: User waits for delivery.				

8. Delivery Status

Project Name: Medicine Fair			Test Designed by: SAJID AL SAKIB	
Test Case ID: T_8			Test Designed date: 6.12.2021	
Test Priority (Low, Medium, High): MEDIUM			Test Executed by: SHIL, DIPONKOR CHANDRA	
Module Name: Delivery Status			Test Execution date: 13.12.2021	
Test Title: Verify delivery status				
Description: Test any particular order is set to delivered or not				
Precondition (If any): An order should be placed earlier with a particular payment method.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click “Deliver y Status”. 2. Select a specific order. 3. Check delivery status there.	Ccc:1864	Delivery is on the way.	As expected	Passed
Post Condition: Product should be delivered.				

9. Availability

Project Name: Medicine Fair			Test Designed by: SAJID AL SAKIB	
Test Case ID: NFRT_1			Test Designed date: 6.12.2021	
Test Priority (Low, Medium, High): MEDIUM			Test Executed by: SHIL, DIPONKOR CHANDRA	
Module Name: Availability			Test Execution date: 14.12.2021	
Test Title: Response time of the system.				
Description: At different time system will get different number of hits. According to that an available percentage(at least 99.8%) has been set varying weekdays and weekends. It also includes time shift.				
Preconditions: N/A				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
Go the application at different time on different days.	N/A	According to condition, system should response properly.	As expected	Passed
Post condition: N/A				

10. Performance

Project Name: Medicine Fair			Test Designed by: SAJID AL SAKIB	
Test Case ID: NFRT_2			Test Designed date: 8.12.2021	
Test Priority (Low, Medium, High): MEDIUM			Test Executed by: SHIL, DIPONKOR CHANDRA	
Module Name: Performance			Test Execution date: 14.12.2021	
Test Title: Performance of the system based on some activities of the system.				
Description: At different action, system should response properly according to expected time. This includes the parts like authentication time, download time, searching time, and validation time.				
Precondition (If any): N/A				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
Measuring time on the action of authentication, download, search, validation.	N/A	According to expected time, system should response properly.	As expected	Passed
Post Condition: N/A				

11. Efficiency

Project Name: Medicine Fair			Test Designed by: MD. TAHSINUR RAHMAN	
Test Case ID: NFRT_3			Test Designed date: 7.12.2021	
Test Priority (Low, Medium, High): MEDIUM			Test Executed by: SAJID AL SAKIB	
Module Name: Efficiency			Test Execution date: 14.12.2021	
Test Title: Increasing system efficiency and giving user a smooth experience with the help of a methodology.				
Description: According to user’s internet speed, system will automatically reduce/increase images quality to give user a smooth experience.				
Precondition (If any): N/A				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
Reduce/Increase the quality of system images	N/A	According to user internet speed, system should response at its best.	As expected	Passed
Post Condition: N/A				

12. Reusability

Project Name: Medicine Fair			Test Designed by: MD. TAHSINUR RAHMAN	
Test Case ID: NFRT_4			Test Designed date: 8.12.2021	
Test Priority (Low, Medium, High): MEDIUM			Test Executed by: SAJID AL SAKIB	
Module Name: Reusability			Test Execution date: 14.12.2021	
Test Title: Reuse predefined actions or functions in the system.				
Description: Some functions like Search options, OTP validation has several usability in the system. So, without adding different functions for the same action, we can reuse the predefined function. That will lower the load on the application.				
Precondition (If any): N/A				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
Use of one code in many module.	N/A	According to the analogy of reusability, the system should response properly.	As expected	Passed
Post Condition: N/A				

13. Integrity

Project Name: Medicine Fair			Test Designed by: MD. TAHSINUR RAHMAN	
Test Case ID: NFRT_5			Test Designed date: 8.12.2021	
Test Priority (Low, Medium, High): MEDIUM			Test Executed by: SAJID AL SAKIB	
Module Name: Integrity			Test Execution date: 15.12.2021	
Test Title: To ensure the security of the system as well as the users.				
Description: For security purpose system have to ensure the all kinds of security of the users.				
Precondition (If any): N/A				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. System will be able to prevent unauthorized access. 2. Only permitted privileges will be able to access user transaction histories. 3. Payment transactions procedure will be handled in special security.	N/A	1. Be ensured, system is able to prevent all kinds of unauthorized access. 2. Be ensured that, there should be only admin or administrative team will see the transaction histories. 3. System should give more security about payment and make sure that all kind of payment should be done without any kind of insecurity issues.	As expected	Passed
Post Condition: N/A				

14. Interoperability

Project Name: Medicine Fair			Test Designed by: SHIL, DIPONKOR CHANDRA	
Test Case ID: NFRT_6			Test Designed date: 10.12.2021	
Test Priority (Low, Medium, High): MEDIUM			Test Executed by: MD. TAHSINUR RAHMAN	
Module Name: Interoperability			Test Execution date: 15.12.2021	
Test Title: To ensure the data exchanging function between card and the system.				
Description: Verify that the data exchanging happening perfectly between card and the system.				
Precondition (If any): N/A				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Symmetric communication between system and payment methods will be establish when a transaction is occurred.	N/A	1. System use the different payment method that are made by some other companies. So we have to ensure the proper work of it.	As expected	Passed
Post Condition: N/A				

15. Maintainability

Project Name: Medicine Fair			Test Designed by: SHIL, DIPONKOR CHANDRA	
Test Case ID: NFRT_7			Test Designed date: 10.12.2021	
Test Priority (Low, Medium, High): MEDIUM			Test Executed by: MD. TAHSINUR RAHMAN	
Module Name: Maintainability			Test Execution date: 15.12.2021	
Test Title: To test maintenance time is between 40 min to 1 hour and how easily our Application can be modified.				
Description: Maintainability depends on how easily system can be understood, changed, tested and correct a defect in our application in a short amount of time.				
Precondition (If any): N/A				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. System contains light-weights UI and functions which gives a maintenance programmer to modify easily.	N/A	1. System can easily modified, understood, changed and tested	As expected	Passed
Post Condition: N/A				

16. Robustness

Project Name: Medicine Fair			Test Designed by: SAJID AL SAKIB	
Test Case ID: NFRT_8			Test Designed date: 10.12.2021	
Test Priority (Low, Medium, High): MEDIUM			Test Executed by: SAJID AL SAKIB	
Module Name: Robustness			Test Execution date: 16.12.2021	
Test Title: Auto save data in case of any accidental shutdown of the application.				
Description: All the information and activities will be auto save to prevent fail tolerance of the system.				
Precondition (If any): N/A				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Auto save information for further reuse	N/A	1. Last edits and progresses are found after accidental shutdown of the application.	As expected	Passed
Post Condition: N/A				

17. Usability

Project Name: Medicine Fair			Test Designed by: SAJID AL SAKIB	
Test Case ID: NFRT_9			Test Designed date: 12.12.2021	
Test Priority (Low, Medium, High): MEDIUM			Test Executed by: MD. TAHSINUR RAHMAN	
Module Name: Usability			Test Execution date: 16.12.2021	
Test Title: To test user friendliness of the system.				
Description: Verify the system is user friendly or not.				
Precondition (If any): N/A				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Open the app. 2. Search for Medicine. 3. Check the availability and the price. 4. Upload Prescription for consulting a doctor. 5. Order online. 6. Select a payment method. 7. Get confirmation.	Check all the functionality of the application is working smoothly or not.	User experience should be a pleasurable one. We should expect to get average rating above 4.5 out of 5.	As expected	Passed
Post Condition: N/A				

8. ITEM PASS/FAIL CRITERIA

The test process will be completed when the beta version is completed. When the sales administration staff is satisfied that the sales graph is satisfactory after consecutive 5 months of sales data.

9. TEST DELIVERABLES

- Acceptance test plan
- System/Integration test plan
- Unit test plans/turnover documentation
- Screen prototypes
- Report mock-ups
- Defect/Incident reports and summaries
- Test logs and turnover reports
- Fixed bug report

10. TRAINING AND STAFFING NEEDS

The way to approach staffing and training will vary from project to project. If this section is part of a Master Test Plan, should indicate at what points in the project lifecycle different skills and numbers of staff are needed. If this is an Iteration Test Plan, should focus mainly on where and what training might occur during the Iteration.

Give thought to the training needs, and plan to schedule this based on a Just-In-Time (JIT) approach—there is often a temptation to attend training too far in advance of its usage when the test team has apparent slack. Doing this introduces the risk of the training being forgotten by the time it's needed.

Look for opportunities to combine the purchase of productivity tools with training on those tools, and arrange with the vendor to delay delivery of the training until just before you need it. If we have enough headcount, consider having training delivered in a customized manner, possibly on own site.

The test team often requires the support and skills of other team members not directly part of the test team. Make sure of arranging in the plan for appropriate availability of

System Administrators, Database Administrators, and Developers who are required to enable the test effort.

11. RESPONSIBILITIES

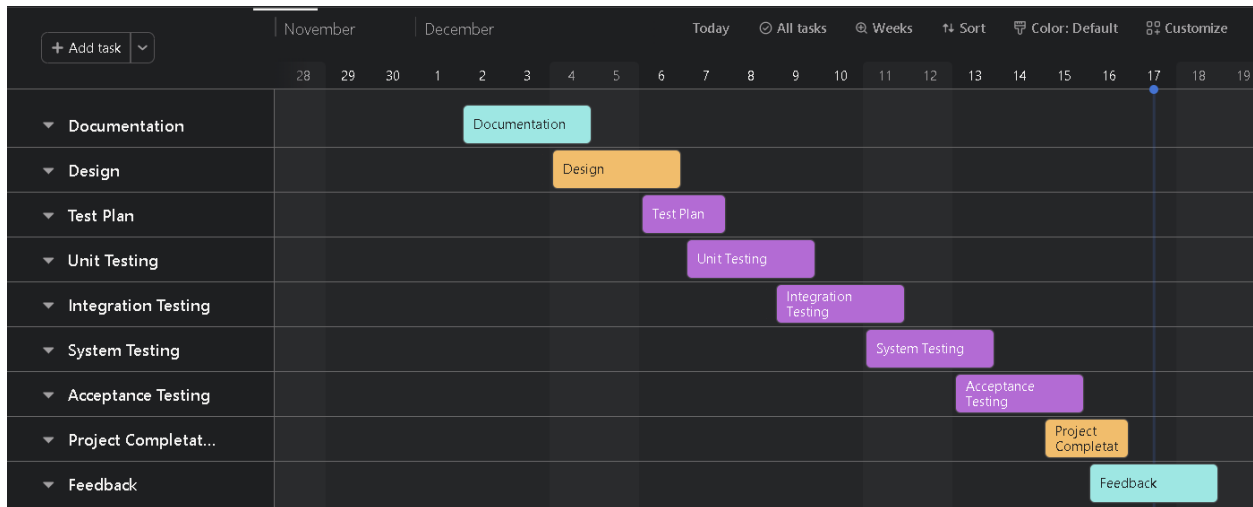
Role	Minimum Resources Recommended (number of full-time roles allocated)	Specific Responsibilities or Comments
Test Manager		<p>Provides management oversight.</p> <p>Responsibilities include:</p> <ul style="list-style-type: none"> • planning and logistics • agree mission • identify motivators • acquire appropriate resources • present management reporting • advocate the interests of test • evaluate effectiveness of test effort
Test Analyst		<p>Identifies and defines the specific tests to be conducted.</p> <p>Responsibilities include:</p> <ul style="list-style-type: none"> • identify test ideas • define test details • determine test results • document change requests • evaluate product quality
		Defines the technical

Test Designer		<p>approach to the implementation of the test effort.</p> <p>Responsibilities include:</p> <ul style="list-style-type: none"> • define test approach • define test automation architecture • verify test techniques • define testability elements • structure test implementation
Tester		<p>Implements and executes the tests.</p> <p>Responsibilities include:</p> <ul style="list-style-type: none"> • implement tests and test suites • execute test suites • log results • analyze and recover from test failures • document incidents
Test System Administrator		<p>Ensure test environment and assets are managed and maintained.</p> <p>Responsibilities include:</p> <ul style="list-style-type: none"> • administer test management system • install and support access to, and recovery of, test environment configurations and test labs
Database Administrator,		<p>Ensures test data (database) environment and assets are managed and maintained.</p>

Database Manager		Responsibilities include: <ul style="list-style-type: none"> support the administration of test data and test beds (database)
Designer		Identifies and defines the operations, attributes, and associations of the test classes. Responsibilities include: <ul style="list-style-type: none"> defines the test classes required to support testability requirements as defined by the test team
Implementer		Implements and unit tests the test classes and test packages. Responsibilities include: <ul style="list-style-type: none"> creates the test components required to support testability requirements as defined by the designer

12. 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.



13. PLANNING RISKS AND CONTINGENCIES

1. Prior to the app launch, it's easy to focus all of our resources on development alone. While it's essential to build a high performing app, marketing efforts are just as important in order to ensure success once your app has hit the app stores.
2. Consumers are more likely to download an app if they can see its value. Strong ratings and reviews provide potential users with insight before they've even downloaded the app. additionally; App store algorithms consider reviews and ratings as a part of their ranking system. In order to rank high, your app needs to have positive feedback from its users.
3. Marketing efforts should never be an afterthought. We should start when we decide to begin building our app. This is the most important element which cannot be ignored.

14. APPROVALS

Project Sponsor	Sajid Al Sakib
Development and Testing team	Md. Tahsinur Rahman
Project manager	Diponkor Chandra Shil
Test manager	Sajid Al Sakib
Development team Manager	Rasel Kibria