



Test Plan for Automated Crime Alarm System.

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1 Introduction

In today's world, crime is a menace that each country faces. Government has imposed many laws to reduce crime rate to make world a better place to live in, but majority did not find expected results. Most of the crime happens because of unawareness of general people and most crimes are committed in those places in which law enforcers don't focus on or the security measures of the place is not efficient. Moreover, many crimes don't even gets reported to the law enforcers because people are scared of criminals. Our proposed system is automated crime alarm system where the user of the system can be aware about the crime records and situation of different areas according to their choices and they will be notified whenever they enter a risk zone. User can report if any crime occurs in their area and their report will be saved as anonymous. Law enforcers and Admin of the area can also see the crime reports.

1.0.1 Purpose:

The purpose of this document is to provide details on how the testing process will be conducted for “Automated Crime Alert System for Public Safety”. It includes the test strategy, objectives, schedule, deliverables, test cases and other resources required for testing. Test Plan helps us determine the effort needed to validate the quality of the application.

1.0.2 Problem People Face:

Crime has been a vital problem ever since the dawn of human civilization and man's efforts to grapple with this problem have only partially succeeded. Recent study shows that the number of crimes are increasing day by day and people are becoming victims of various kinds of crimes more and more. Crimes like murder, child trafficking, drug trafficking, physical violence, rape, kidnaping etc. are occurring here and there all over the world. So, it has become very difficult to track so many crimes and make people aware about it. And most of the time people experience danger because of unawareness.

1.0.3 Proposed Solution to the problem:

We are proposing a system for reducing the above-mentioned problem. This type of system has not been properly used yet. We hope our project “Automated crime alert for public safety” will benefit general people. Our system allows general people to be aware of crimes happening here and there. It also allows people to view crime zones through map and request emergency help in times of their need. Moreover, they can report any crime in case of occurrence.

1.2 Document Conventions:

Convention for Main title:

1. Font Theme: Times New Roman
2. Font Style: Bold
3. Font Size: 14

Convention for Sub title:

1. Font Theme: Times New Roman
2. Font Size: 12

Convention for Body:

1. Font Theme: Times New Roman
2. Font Size: 12
3. Font Style: Normal

1.3 Project Scope

Automated crime alert system for public safety is an android based application to make people aware of crimes happening around them. General people can easily sign up with their phone number and password and other value able inputs (such as location). They can easily search and view any risk zones. Also, they can report any crime and request emergency help if needed. Admin will monitor the whole system. Admin will create an account for law enforcers. Admin can view crime zones and remove any crime area if needed. Law enforcers can view the crime zone and total number of crimes committed in their area.

1.4. References

- Books:

1. Software Requirement, 3rd Edition
2. The Software Requirement Memory Jogger

2. User classes and Characteristics

There are three types of user who will interact with the system. They are:

1. General Public.
2. Law enforcers.
3. Admin.

Each type of user has different use of the system and each of them has their own requirements.

General Public: People of an area are described as general public. Using their phone numbers anyone can register into the system. They can set their own password. One can post a crime whenever she/he wants and one has to describe the crime in details and select the location of the crime properly. If it's possible to provide a picture one can upload the picture of the crime scenario or the criminal's photo. Users identity will be anonymous to law enforcers and admins. A user can also view a specific area of his/her own choice by search that particular area. Whenever users enter the risk zones, they will be notified through the system automatically.

Law Enforcers: When reports get posted into the system by general people law enforcers will be notified through the system. They will be able to view the reports, number of crimes committed and remove the reports upon priority. They can also request for removal of risk zones.

Admin: Admin can add and delete any accounts. They can view the number of crimes and reports of an area. They have the power to remove a risk zone, do remarks on the complains.

3. System Features

3.1 Description of feature

3.1.1 General Public

- General public have to register to the system by providing necessary information's. Registered users can access all the specific functionalities provide in the system for them.
- Public can login into the system.
- Public can update, delete, view own profile.
- People will be able to see the Risk zone through map
- Public will be able to see the update through notification in map done by admin or Law enforcers.
- Public will be able to find their desire place is safe or risky by searching location.
- Public can request emergency help.

3.1.2. Law Enforcer

- Law enforcers can login into the system.
- They can reset/update their password.
- According to their area law enforcers will get notification whenever a crime reports get posted in the system.
- They can view the risk zones of their own area.
- Law enforcers can view number of crimes committed in risk zones.
- They can request admin to remove risk zone after their verification.
- Based on importance law enforcers can remove reports uploaded by users.
- Law enforcers can post comments on the current situation of the crime.
- Law enforcers can get emergency notifications whenever a user request emergency help.
- They can report against a post of a user if user posts false reports.

3.1.3 Admin

- Admin will login to the system using his/her unique id and passwords.
- An admin can update or reset his password and details provided in the system.
- Admins can view reports and comments of all the users in the system.
- Admin can remark on complains.
- Admin can declare risk zones based on crime reports and remove risk zones.

- Admin can assign law enforcers in the risk zones
- Admin can add or delete any accounts and reports according to needs.
- Admin will get a notification if any law enforcers removes any reports.

3.2 Functional requirements

3.2.1 General Public

- The public shall be able to register to the system with their phone number.
- The public shall be able to login to the system.
- The public shall be able to update, delete, view own profile.
- The public shall be able to see the Risk zone or safe zone through map.
- The public shall be able to get update notifications.
- By searching location Public will be able to find the place is safe or risk
- The public shall be able to see the crime list
- The public shall be able to send emergency request help
- The public shall be able to search location.

3.2.2 Law Enforcer

- The Law enforcers will be able to login to the system
- The Law enforcers shall be able to reset/update their password.
- The Law enforcers shall be able to view risk zones on map.

- The Law enforcers shall be able to view number of crimes committed.
- The Law enforcers shall be able to get notification according to their area.
- The Law enforcers shall be able to remove reports based on priority.
- The Law enforcers shall be able to request for the removal of risk zone to the admin.
- The Law enforcers shall be able to view reports posted by general public.
- The Law enforcers shall be able to post comments about the current situation of the posted crime.
- The Law enforcers shall be able to get notifications when user request emergency help.
- The law enforcers shall be able to report a user.

3.2.3 Admin

- Admin shall be able to login to the system with his/her unique user name and password.
- Admin will be able to view crime reports and law enforcers comments.
- Admin shall be able to declare risk zones.
- An Admin can assign police in risk area.
- Admin has the authority to add, delete any user account and reports according to needs.
- Admins shall be able to remark complains.
- An Admin can remove risk zone.
- An admin will be able to reset/update his/her password.
- Admin will be notified if law enforcers remove reports of general users.

3.3 Nonfunctional requirements

- The index-page load time must be no more than 3 seconds for every type of users.
- Password will not be viewable in the time of login.
- The system should be able to handle 1000 users without affecting its performance.
- System shall be able to process a notification in 2 seconds or less.
- Emergency help requests alerts keep buzzing for 1 minutes.
- System should be portable for different Android versions.

4. Test Plan

4.1 Test Plan Identifier:

TP_AutomatedCrimeAlarmSystem_5.1

TP_AutomatedCrimeAlarmSystem_5.2

TP_AutomatedCrimeAlarmSystem_5.3

5. Test items

5.1 General Public

- 5.1.1 The public shall be able to register to the system with their phone number.
- 5.1.2 The public shall be able to login to the system.
- 5.1.3 The public shall be able to update, delete, view own profile.
- 5.1.4 Public shall be able to post complains or crime reports.

- 5.1.5 The public shall be able to see the Risk zone.
- 5.1.6 The public shall be able to get update notifications.
- 5.1.7 By searching location Public will be able to find the place is safe or risk and view the crime details
- 5.1.8 The public shall be able to send emergency request help

5.2 Law Enforcers

- 5.2.1 The Law enforcers will be able to login to the system
- 5.2.2 The Law enforcers shall be able to reset/update their password.
- 5.2.3 The Law enforcers shall be able to view risk zones on map.
- 5.2.4 The Law enforcers shall be able to view number of crimes committed.
- 5.2.5 The Law enforcers shall be able to get notification according to their area.
- 5.2.6 The Law enforcers shall be able to view reports posted by general public.
- 5.2.7 The Law enforcers shall be able to remove reports based on priority.
- 5.2.8 The Law enforcers shall be able to request for the removal of risk zone to the admin.
- 5.2.9 Law enforcers shall be able to search specific reports/complains.
- 5.2.10 The Law enforcers shall be able to post comments about the current situation of the posted crime.
- 5.2.11 The Law enforcers shall be able to get notifications when user request emergency help.
- 5.2.12 The law enforcers shall be able to report a use.

5.3 Admin

- 5.3.1 Admin shall be able to login to the system with his/her unique user name and password.
- 5.3.2 An admin will be able to reset/update his/her password.
- 5.3.3 Admin will be able to view crime reports and law enforcers comments and risk zones.
- 5.3.4 Admins shall be able to remark complains.
- 5.3.5 Admin shall be able to declare risk zones.
- 5.3.6 An Admin can remove risk zone.
- 5.3.7 An Admin can assign law enforcers in risk area.
- 5.3.8 Admin has the authority to add, delete any user account and reports according to needs.
- 5.3.9 Admin will be notified if law enforcers remove reports of general users.

6 Item Pass/Fail criteria

6.1 General Public

Project Name: Automated Crime Alarm System	Test Designed by Santa, Tasnia sarmin
Test Case ID: TP_GP_001	Test Designed date: 9 march ,2020
Test Priority (Low, Medium, High): High	Test Executed by: Santa, Tasnia sarmin
Module Name: User Registration	Test Execution date: 15 march, 2020
Test Title: Register with phone number and password	
Description: Test the system's registration page	
Pre-condition: Have a valid phone number and 8 length's passwords.	

Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
<ul style="list-style-type: none"> - Go to the application - Click signup option - Enter phone Number - Enter password - Enter other details(address) - Click submit 	Mobile no: 01812342661 Password: 12345678	User must be able to registered in the system.		
Post-Condition: User has been successfully registered with the system.				

Table 1: 5.1.1 Test Case

Project Name: Automated Crime Alarm System			Test Designed by: Santa, Tasnia sarmin	
Test Case ID: TP_GP_002			Test Designed date: 9 march, 2020	
Test Priority (Low, Medium, High): High			Test Executed by: santa, Tasnia sarmin	
Module Name: public Login			Test Execution date: march 15, 2020	
Test Title: public can login				
Description: public can enter his/her profile using valid user name and password				
Pre-condition: Have a unique user id and 8 length’s passwords.				
Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
<ul style="list-style-type: none">- Go to the application- Enter user id- Enter password- Click login	User name: P001 Password: 12345678	User shall be able to login to the system successfully.		
Post-Condition: Redirect to public Home page				

Table 2: 5.1.2 Test Case

Project Name: Automated Crime Alarm System			Test Designed by: Santa, Tasnia sarmin		
Test Case ID: TP_GP_003			Test Designed date: 09 march,2020		
Test Priority (Low, Medium, High): High			Test Executed by: Santa, Tasnia sarmin		
Module Name: update profile			Test Execution date: march 15,2020		
Test Title: public can update own profile					
Description: public can update profile details according to their needs					
Pre-condition: must be logged in.					
Test Steps		Test Data	Expected Result	Actual Result	Status (Pass/Fail)
<ul style="list-style-type: none">- Go to the application- login- Select update- Click submit		User Id: P001 Password: 12345678 Input: Valid information	Show the change of profiles		
Post-Condition: Able to view the changes of his/her profile					

Table 3: 5.1.3 Test Case

Project Name: Automated Crime Alarm System			Test Designed by: Santa, Tasnia sarmin		
Test Case ID: TP_GP_004			Test Designed date: 09 march, 2020		
Test Priority (Low, Medium, High): High			Test Executed by: Santa, Tasnia sarmin		
Module Name: Delete profile			Test Execution date: 15 march,2020		
Test Title: public can delete own profile					
Description: public can delete profile details according to their needs					
Pre-condition: must be logged in.					
Test Steps		Test Data	Expected Result	Actual Result	Status (Pass/Fail)
<ul style="list-style-type: none">- Go to the application- login- Select delete- Click conform- Click submit		User Id: P001 Password: 12345678	User will not be able to sign in with old user name and password		
Post-Condition: won't be able to login in anymore.					

Table 4: 5.1.3 Test Case

Project Name: Automated Crime Alarm System			Test Designed by: Santa, Tasnia sarmin	
Test Case ID: TP_GP_005			Test Designed date: 09 march,2020	
Test Priority (Low, Medium, High): High			Test Executed by Santa, Tasnia sarmin	
Module Name: post report about the crime.			Test Execution date: 15 march, 2020	
Test Title: posts crime reports				
Description: Public can post complain or reports of crimes in their area.				
Pre-condition: public should be logged in and need to click complain button				
Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
<ul style="list-style-type: none">- Go to the application- Enter user name & password- Click post button- Click submit	User Name-P001 Password: 12345678 Input: correct and valid Information	Complain has been submitted successfully and able to view report.		
Post-Condition: law enforcers and admin of the area will be notified about the report.				

Table 5: 5.1.4 Test Case

Project Name: Automated Crime Alarm System			Test Designed by: Santa, Tasnia sarmin		
Test Case ID: TP_GP_006			Test Designed date: 10 march, 2020		
Test Priority (Low, Medium, High): High			Test Executed by Santa, Tasnia sarmin		
Module Name: Risk zone through map			Test Execution date: 16 march ,2020		
Test Title: view the Risk zone through map					
Description: People will be able to see the Risk zones through map					
Pre-condition: public should be logged in					
Test Steps		Test Data	Expected Result	Actual Result	Status (Pass/Fail)
<ul style="list-style-type: none">- Go to the application- Enter user name & password- Click on map- Turn on mobile location.		User Id: P001 Password: 12345678	User see the risk zone successfully		
Post-Condition: After seeing the risk zone he/she can take heed					

Table 6: 5.1.5 Test Case.

Project Name: Automated Crime Alarm System			Test Designed by Santa, Tasnia sarmin	
Test Case ID: TP_GP_007			Test Designed date: 10 march, 2020	
Test Priority (Low, Medium, High): High			Test Executed by: Santa, Tasnia sarmin	
Module Name: see the law enforcers update through notification			Test Execution date: 16 march, 2020	
Test Title: see the update through notification in map done by admin or Law enforcers.				
Description: Public will be able to see the update through notification in map done by admin or Law enforcers.				
Pre-condition: public should be logged				
Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
<ul style="list-style-type: none">- Go to the profile- Click notification bell bar	User Id: P001 Password: 12345678	Able to view the updated notification successfully		
Post-Condition: public can see in his account assigned area.				

Table 7: 5.1.6 Test Case

Project Name: Automated Crime Alarm System			Test Designed by: Santa, Tasnia sarmin	
Test Case ID: TP_GP_008			Test Designed date: 10 march,2020	
Test Priority (Low, Medium, High): medium			Test Executed by Santa, Tasnia sarmin	
Module Name: Search Risk zone in map.			Test Execution date: 16 march,2020	
Test Title: Search the Risk zone through map				
Description: People will be able to see the Risk zones through map				
Pre-condition: public should be logged in				
Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
<ul style="list-style-type: none">- Go to the application- Enter user name & password- Click on map- Search with valid location	User Id: P001 Password: 12345678 Input: Kuratoli road, Kuril, Dhaka.	User will be able to view the zone successfully and number of reports in that area.		
Post-Condition: able to know about the update status done by admin or Law enforcers				

Table 8: 5.1.7 Test Case

Project Name: Automated Crime Alarm System			Test Designed by: Salauddin, Towsif	
Test Case ID: TP_GP_009			Test Designed date: 10 march,2020	
Test Priority (Low, Medium, High): High			Test Executed by: Santa, Tasnia sarmin	
Module Name: request emergency help.			Test Execution date: 16 march,2020	
Test Title: Public can request emergency help.				
Description: Public will be able to request emergency help when there is any crime				
Pre-condition: public login test.				
Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
<ul style="list-style-type: none">- Go to the profile- Click emergency bell bar	User Id: P001 Password: 12345678	Successfully performed emergency request		
Post-Condition: law enforcers of that area get the request and perform necessary step				

Table 9: 5.1.8 Test Case

6.2 Law enforcers

Project Name: Automated crime Alarm System			Test Designed By: Talukder Bristy		
Test Case ID: TP_LE_001			Test Designed date: 10 march, 2020		
Test Priority: High			Test Executed by: Talukder Bristy		
Module Name: Law Enforcer Login			Test Execution date: 16 march,2020		
Test Title: Law enforcer login.					
Description: A law enforcer can login using user Id and passwords.					
Pre-condition: Law enforcer has valid id and password.					
Dependency: login to the account					
Test Steps		Test Data	Expected Result	Actual Result	Status (Pass/Fail)
<ul style="list-style-type: none">- Go to the login page- Enter user id and password- Click login		User Id: L001 Password: 1234	Law enforcer should be able to login into the system		
Post Condition: Law enforcer has been validated with database and successfully logged into the system.					

Table 10: 5.2.1 Test Case

Project Name: Automated Crime Alert System for Public Safety			TestDesignedBy: Talukder Bristy	
Test Case ID: TP_LE_002			TestDesigneddate: 10 March, 2020	
Test Priority(Low, Medium, High): High			Test Executed by: Talukder Bristy	
Module Name: Reset Password			Test Executiondate: March 16, 2020	
Test Title: Law enforcer can reset their password				
Description: Test if law enforcer has valid account of the system.				
Precondition: Law enforcer must login to their account.				
Test Steps	Test Data	ExpectedRe- sults	Actual results	Status (Pass/F ail)
-Click over the ‘My Profile’ button. -Click over Settings button. -Click over the ‘Reset password’ button. -Enter new pass- word on the text box	Password	Law enforcer find the home screen of the system.		
Post Condition: Law enforcer has been validated with database with new pass word.				

Table 11: 5.2.2 Test Case

Project Name: Automated Crime Alert System for Public Safety			TestDesignedBy: Talukder Bristy	
Test Case ID: TP_LE_003			TestDesigneddate: 10 March, 2020	
Test Priority(Low, Medium, High): High			Test Executed by: Talukder Bristy	
Module Name: View Risk Zone			Test Executiondate: 16 March, 2020	
Test Title: Law enforcer shall be able to view the risk zone of his area				
Description: Law enforcer view risk zone				
Precondition: Select an area				
Test Steps	Test Data	ExpectedRe- sults	Actual results	Status (Pass/Fai l)
-Go to the appli- cation -Select area from area list	Area List : Area-5	Law enforcer can view the risk zone of elected area.		
Post Condition: Law enforcer has viewed risk zone.				

Table 12: 5.3.3 Test Case

Project Name: Automated Crime Alert System for Public Safety.			TestDesignedBy: Talukder Bristy	
Test Case ID: TP_LE_004			TestDesigneddate: 11 March, 2020	
Test Priority(Low, Medium, High): High			Test Executed by: Talukder Bristy	
Module Name: View committed crime			Test Executiondate: 16 March, 2020	
Test Title: Viewing total numbers of committed crime				
Description: Law enforcer should be able to view total number of crimes committed.				
Precondition: Law enforcer must select an area.				
Test Steps	Test Data	ExpectedRe- sults	Actual results	Status (Pass/ Fail)
-Go to the application -Select an area -Select view total crimes button		Total number of crimes.		
Post Condition: Law enforcer can view total numbers of committed crime.				

Table 13: 5.2.4 Test Case

Project Name: Automated Crime Alert System for Public Safety.			TestDesignedBy: Talukder Bristy	
Test Case ID: TP_LE_005			TestDesigneddate: 11 March, 2020	
Test Priority(Low, Medium, High): High			Test Executed by: Talukder Bristy	
Module Name: Crime report notification			Test Executiondate: 16 March, 2020	
Test Title: Getting crime report notification				
Description: Law enforcer get notification of crimes				
Precondition: Have a valid account				
Test Steps	Test Data	ExpectedRe- sults	Actual results	Status (Pass/F ail)
-go to the system -login to the account -click on the notification button.		Law enforcers get the notification of reported crime.		
Post Condition: Law enforcer has been notified about reported crime.				

Table 14: 5.2.5 Test Case

Project Name: Automated crime Alarm System			Test Designed By: Salauddin, Towsif		
Test Case ID: TP_LE_006			Test Designed date: 11 march, 2020		
Test Priority: High			Test Executed by: Mr. x		
Module Name: view reports			Test Execution date: march 17,2020		
Test Title: view user reports report function					
Description: A law enforcer can see user reports.					
Pre-condition: Law enforcer has valid id and password.					
Dependency: login to the account					
Test Steps		Test Data	Expected Result	Actual Result	Status (Pass/Fail)
<ul style="list-style-type: none">- Go to the login page- Enter user id and password- Click view reports		User Id: L001 Password: 1234	Able to view all the reports of his/her area.		
<ul style="list-style-type: none">- Go to the login page- Enter user id and password- Click view reports		User Id: L0101 Password: 17891	Able to view all the reports of his/her area.		
Post-Condition: Redirect to report view page.					

Table 15: 5.2.6 Test Case

Project Name: Automated crime Alarm System			Test Designed By: Salauddin, Towsif		
Test Case ID: TP_LE_007			Test Designed date: 11 march, 2020		
Test Priority: High			Test Executed by: Mr. x		
Module Name: Request for the removal of risk zone			Test Execution date: 17 March, 2020		
Test Title: Risk zone removal request. function					
Description: A law enforcer can request to remove risk zones.					
Pre-condition: Law enforcer has valid id and password.					
Dependency: login to the account test.					
Test Steps		Test Data	Expected Result	Actual Result	Status (Pass/Fail)
<ul style="list-style-type: none">- Go to the login page- Enter user id and password- Enter admin's id.- Click request button- Click Submit.		User Id: L001 Password: 1234 Admin id: A0001 Input valid reasons.	Able to send request to the admin.		
<ul style="list-style-type: none">- Go to the login page- Enter user id and password- Enter admin's id.		User Id: L0101 Password: 17891 Admin id: A0007	Able to send request to the admin.		

<ul style="list-style-type: none"> - Click request button - Click Submit. 	Input valid reasons.			
Post-Condition: He/she will be able to send request.				

Table 16: 5.2.8 Test Case

Project Name: Automated crime Alarm System		Test Designed By: Salauddin, Towsif		
Test Case ID: TP_LE_008		Test Designed date: 11 march, 2020		
Test Priority: Medium		Test Executed by: Mr. x		
Module Name: Search report		Test Execution date: 17 March, 2020		
Test Title: Search reports report function				
Description: A law enforcer can search specific report with user id.				
Pre-condition: Law enforcer must login to the system.				
Dependency: view reports test				
Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
<ul style="list-style-type: none">- Go to the login page.- Enter user ID and password- Click search- Enter Report's user Id	User ID: L001 Passowrd: 1234 Report's user Id: U0023	A page will appear with desire user's report		

<ul style="list-style-type: none"> - Go to the login page. - Enter user ID and password - Click search - Enter Report's user Id 	User ID: L0101 Passowrd: 17891 Report's user Id: U0023	A page will appear with desire user's report		
Post-Condition: Will be able to report user.				

Table 17: 5.2.9 Test Case

Project Name: Automated crime Alarm System			Test Designed By: Salauddin, Towsif	
Test Case ID: TP_LE_009			Test Designed date: 11 march, 2020	
Test Priority: High			Test Executed by: Mr. x	
Module Name: Emergency Notification			Test Execution date: 17 March, 2020	
Test Title: Emergency notification test. report function				
Description: Law enforcers can have notification if a user request emergency help.				
Pre-condition: Law enforcer must login to the system; General public login to the system; General public emergency notification test.				
Dependency: view reports test				
Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)

<ul style="list-style-type: none"> - Go to the login page. - Enter user ID and password - Click notification - Enter Report's user Id 	User ID: L001 Passowrd: 1234	A page will appear with user's location.		
<ul style="list-style-type: none"> - Go to the login page. - Enter user ID and password - Click search - Enter Report's user Id 	User ID: L0101 Passowrd: 17891	A page will appear with user's report		
Post-Condition: Redirect to user's location on the map.				

Table 18: 5.2.11 Test Case

Project Name: Automated crime Alarm System	Test Designed By: Salauddin, Towsif
Test Case ID: TP_LE_010	Test Designed date: 11 march, 2020
Test Priority: medium.	Test Executed by: Mr. x
Module Name: Remove user reports	Test Execution date: 17 march, 2020
Test Title: Removal of user reports function	
Description: A law enforcer can remove user reports based on importance.	
Pre-condition: Law enforcer has valid id and password; user has posted a report.	

Dependency: User login the test; User report post test; view reports test.				
Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
<ul style="list-style-type: none"> - Click view reports - Click delete report - Click submit. 	Yes/No	Confirmation of successfully deleted the report.		
<ul style="list-style-type: none"> - Click view reports - Click delete report - Click submit 	Yes/No	Confirmation of successfully deleted the report.		
Post-Condition: able to move user's comment				

Table 19: 5.2.7 Test Case

Project Name: Automated crime Alarm System	Test Designed By: Salauddin, Towsif
Test Case ID: TP_LE_011	Test Designed date: 12 march, 2020
Test Priority: Medium	Test Executed by: Mr. x
Module Name: Report user	Test Execution date: 17 march, 2020
Test Title: verifying report function report function	

Description: A law enforcer can report general user account.				
Pre-condition: Law enforcer has valid id and password.				
Dependency: login to the account				
Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
<ul style="list-style-type: none"> - Go to the login page. - Enter user ID and password - Enter report's user ID - Click report. - Click submit. 	User Id: L001 Password: 1234 Report Id: U001 Yes/No	Confirmation Message of Report submitted successfully		
<ul style="list-style-type: none"> - Go to the login page. - Enter user ID and password - Enter report's user ID - Click report. - Click submit. 	User Id: L0101 Password: 17891 Report Id: U0720 Yes/No	Confirmation Message of Report submitted successfully		
Post-Condition: User has been successfully reported				

Table 20: 5.2.12 Test Case

Project Name: Automated crime Alarm System			Test Designed By: Salauddin, Towsif		
Test Case ID: TP_LE_012			Test Designed date: 12 march, 2020		
Test Priority: low			Test Executed by: Mr. x		
Module Name: Comments			Test Execution date: 17 March, 2020		
Test Title: Comments on the posts.					
Description: A law enforcer can comment on a user’s reports to inform the current situation of the crime.					
Pre-condition: Assigned by admin for investigation of a crime.					
Dependency: user post reports test and admin’s assignment.					
Test Steps		Test Data	Expected Result	Actual Result	Status (Pass/Fail)
<ul style="list-style-type: none">- Go to the login page.- Enter user id and password- Click to view reports- Click to comment- Write comment and click submit button		User ID: L001 Passowrd: 1234 Input: Post valid comments	Able to view user area on the map.		

<ul style="list-style-type: none"> - Go to the login page. - Enter user id and password - Click to view reports - Click to comment - Write comment and click submit button - 	User ID: L0101 Passowrd: 17891 Input: Post valid comments	Able to view user area on the map.		
Post-Condition: Law enforcers will be able to comment on the post.				

Table 21: 5.2.10 Test Case

6.3 Admin

Project Name: Automated Crime Alarm System			Test Designed by: Florin, Mahmuda Muslim	
Test Case ID: Tp_AD_001			Test Designed date: March 11, 2020	
Test Priority (Low, Medium, High): High			Test Executed by: Florin, Mahmuda Muslim	
Module Name: Admin Login			Test Execution date: March 17, ,2020	
Test Title: admin can login				
Description: admin can enter his/her valid user name and password				
Pre-condition: Have a unique user name and 6 length’s passwords.				
Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
<ul style="list-style-type: none">- Go to the application- Enter user name- Enter password- Click login	User name: florin Password: 203040	Admin login successfully		
Post-Condition: Redirect to admin homepage.				

Table 22: 5.3.1 Test Case

Project Name: Automated Crime Alarm System	Test Designed by: Hakim, Jannatul
Test Case ID: TP_AD_002	Test Designed date: March 11, 2020

Test Priority (Low, Medium, High): High			Test Executed by: Hakim, Jannatul	
Module Name: Reset Password			Test Executed date: March 17, 2020	
Test Title: Admin can reset their password				
Description: Test if admin has valid account of the system				
Pre-condition: Admin must login to their account				
Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
<ul style="list-style-type: none">- Go to the application- Click over the Reset password button- Enter new password on the text box	Password	Admin find the home screen of the system.		
Post-Condition: User has been validated with database with new password.				

Table 23: 5.3.2 Test Case

Project Name: Automated Crime Alarm System			Test Designed by: Florin, Mahmuda Muslim	
Test Case ID: TP_AD_003			Test Designed date: March 12, 2020	
Test Priority (Low, Medium, High): High			Test Executed by: Hakim, Jannatul	
Module Name: Risk zone			Test Execution date: March 17, 2020	
Test Title: Admin can view risk zone.				
Description: Admin can view risk zone where the crime had been happened.				
Pre-condition: System should be running in server side and admin have to be logged in.				
Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
<ul style="list-style-type: none">- Go to the application- Click risk zone list- Select risk Zone- View risk zone		Show the list of risk zone		
Post-Condition: The risk zone list generated successfully.				

Table 24: 5.3.3 Test Case

Project Name: Automated Crime Alarm System			Test Designed by: Hakim, Jannatul	
Test Case ID: TP_AD_004			Test Designed date: March 12, 2020	
Test Priority (Low, Medium, High): High			Test Executed by: Hakim, Jannatul	
Module Name: view comments			Test Execution date: March 17, 2020	
Test Title: Admin can view comments reports.				
Description: Admin can view reports and comments.				
Pre-condition: System should be running in server side and admin have to be logged in.				
Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
<ul style="list-style-type: none">- Go to the application- Click risk zone list- Select risk Zone- View risk zone		Show the list Comments		
Post-Condition: The reports and comments list generated successfully.				

Table 25: 5.3.3 Test Case

Project Name: Automated Crime Alarm System			Test Designed by: Hakim, Jannatul	
Test Case ID: TP_AD_005			Test Designed date: March 12, 2020	
Test Priority (Low, Medium, High): High			Test Executed by: Hakim, Jannatul	
Module Name: Remark Complains			Test Executed date: March 17, 2020	
Test Title: Admin can remark complains				
Description: Admin can be remark complain if he wants				
Pre-condition: System should be running in server side				
Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
<ul style="list-style-type: none">- Go to the application- View complains- Select remark complains		Admin remark complains successfully		
Post-Condition: The police have ready the all complains				

Table 26: 5.3.4 Test Case

Project Name: Automated Crime Alarm System			Test Designed by: Hakim, Jannatul	
Test Case ID: TP_AD_006			Test Designed date: March 12, 2020	
Test Priority (Low, Medium, High): High			Test Executed by: Hakim, Jannatul	
Module Name: Declare risk zone			Test Execution date: March 17, 2020	
Test Title: Declare a risk zone				
Description: Admin can declare a risk zone				
Pre-condition: Admin should be logged in				
Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
<ul style="list-style-type: none">- Go to the application- Click zone list- Select a risk zone- Click submit		Risk zone declare successfully		
Post-Condition: Users view new risk zone.				

Table 27: 5.3.5 Test Case

Project Name: Automated Crime Alarm System			Test Designed by: Hakim, Jannatul	
Test Case ID: TP_AD_007			Test Designed date March 12, 2020	
Test Priority (Low, Medium, High): High			Test Executed by: Hakim, Jannatul	
Module Name: Delete risk zone			Test Execution date: March 17, 2020	
Test Title: Delete a risk zone				
Description: Admin can delete a risk zone				
Pre-condition: Admin should be logged in				
Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
<ul style="list-style-type: none">- Go to the application- Click risk zone list- Select a risk zone- Click delete		Risk zone deleted successfully		
Post-Condition: Users can view risk zones.				

Table 28: 5.3.6 Test Case

Project Name: Automated Crime Alarm System			Test Designed by: Florin, Mahmuda Muslim	
Test Case ID: TP_AD_008			Test Designed date: March 12, 2020	
Test Priority (Low, Medium, High): High			Test Executed by: Florin, Mahmuda Muslim	
Module Name: Risk area			Test Execution date: March 17, 2020	
Test Title: Assign police in risk area				
Description: Admin can assign police in risk area				
Pre-condition: police have to be valid				
Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
<ul style="list-style-type: none">- Go to the application- Click area list- Select area- Click edit- Click assign- Enter Law enforcers ID- Click save	User id of Law enforcer: L001	Law enforcers assigned successfully		
Post-Condition: Police can see in his account assigned area.				

Table 29: 5.3.7 Test Case

Project Name: Automated Crime Alarm System			Test Designed by: Florin, Mahmuda Muslim	
Test Case ID: TP_AD_009			Test Designed date: March 12, 2020	
Test Priority (Low, Medium, High): High			Test Executed by: Florin, Mahmuda Muslim	
Module Name: Add Law enforcer			Test Execution date: March 18, 2020	
Test Title: Add Law enforcers				
Description: Admin can create a Add Law enforcer.				
Pre-condition: Admin should be logged in				
Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
<ul style="list-style-type: none">- Go to the application- Click new user button- Enter user name- Enter password- Enter name- Enter age- Enter Nid- Click register button	User ID-P001 Pass-12345678	User create successfully		
Post-Condition: Law enforcers can login				

Table 30: 5.3.8 Test Case

Project Name: Automated Crime Alarm System			Test Designed by: Florin, Mahmuda Muslim	
Test Case ID: TP_AD_010			Test Designed date: March 13, 2020	
Test Priority (Low, Medium, High): High			Test Executed by: Florin, Mahmuda Muslim	
Module Name: Delete user			Test Execution date: March 18, 2020	
Test Title: Delete a user				
Description: Admin can delete a new user				
Pre-condition: Admin should be logged in				
Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
<ul style="list-style-type: none">- Go to the application- Click user list- Select a user- Click delete		User deleted successfully		
Post-Condition: Users cannot login.				

Table 31: 5.3.8 Test Case

Project Name: Automated Crime Alarm System			Test Designed by: Florin, Mahmuda Muslim	
Test Case ID: TP_AD_011			Test Designed date March 13, 2020	
Test Priority (Low, Medium, High): High			Test Executed by: Florin, Mahmuda Muslim	
Module Name: Report removal notification			Test Execution date: March 18, 2020	
Test Title: Report removal notification				
Description: Admin will have notification if a report gets removed by law enforcers				
Pre-condition: Admin have to be logged in and reports removal test.				
Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
<ul style="list-style-type: none">- Select notification- Login to the system- View the deleted report.		Show the list of crimes		
Post-Condition: The report generated successfully.				

Table 32: 5.3.9 Test Case

7. Test Deliverables

- Test plans document.
- Test cases documents.
- Test Design specifications.
- Test Data.
- Test execution logs.
- Test Results

8. Staffing and Training:

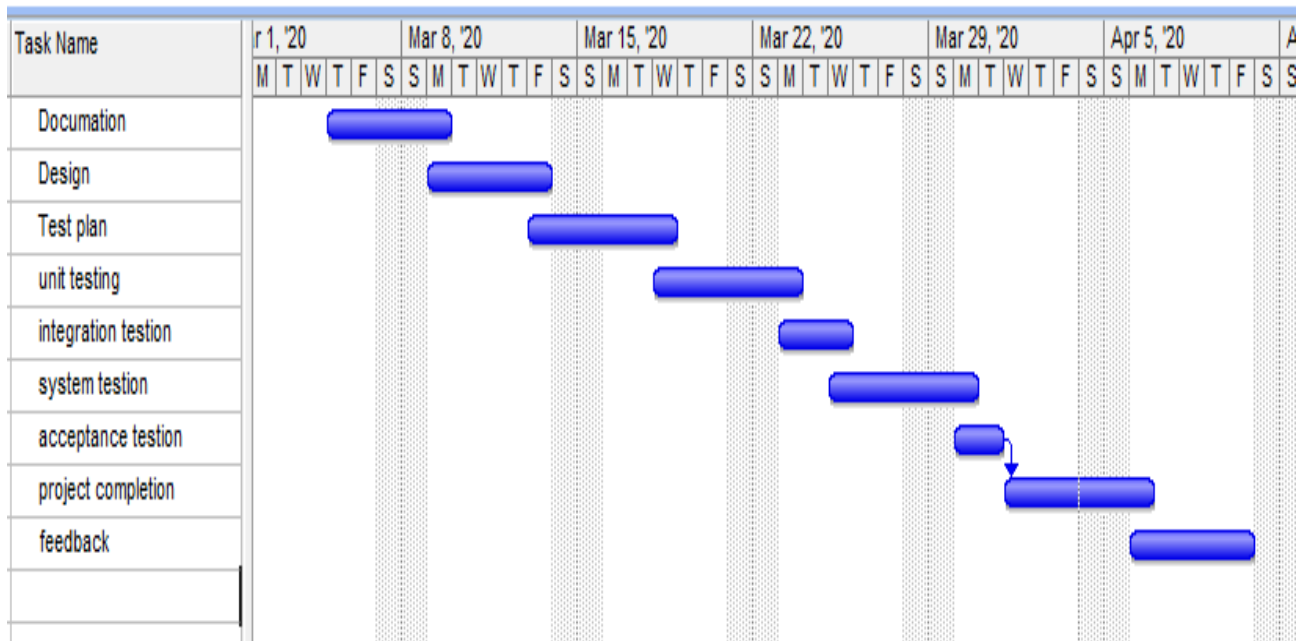
8.1 Staffing Needs: During the first week of the project the project manager performed the role of full time test engineer with a part time professional test engineer in order to assist in initial planning and one more personal was hired in order to review the test cases and assist building more complex and new test cases.

8.2 Training Needs: Two of test team member were lagging in designing test cases for this reason a training session was arranged for them. Test team members as well as test manager were not having trouble with available testing tools and with the help of part time professional test engineer, they were able to understand the functionalities.

9. Responsibilities:

Responsibilities	Project Manager	Development Team	Test Manager	Test Team	Client
Unit Testing, Documentation and Execution				✓	
Integration Testing Documentation and Execution				✓	
Acceptance Testing, Documentation and Execution	✓	✓		✓	
System Testing Documentation and Execution				✓	
User Interface Review	✓	✓		✓	✓
System Layout Review	✓	✓		✓	
Test Procedures and rules	✓				
Data validation	✓				✓

10. Schedule:



11. Planning Risks and Contingencies:

- Communication error between different module
- Complex design hard to finished on time
- Due to lack of proper testing skills
- Poor management skill
- Budget Changes
- Employee turnover
- Estimation and scheduling
- Server down for huge traffic. (overload)
- Unexpected user request
- Application may be crashed in some of browsers.

12. Items not to be tested:

- Security measures

- - Different types of hardware to run the application.
 - Public's Information (phone number, profile)
 - Crime reports
 - User's account and reports according to needs.
 - Database storage capacity.

13. Approvals:

Approval	Project Manager	Test Manager	Development Team	Test Team
Documentation and Execution				
System Structure				
Test Procedures and rules				
Unit Testing				
Integration Testing				
System Testing				
Acceptance Testing				

Validation of data				
Final Project completion				
User Interface Review				

