## American International University-Bangladesh (AIUB)

# Department of Computer Science Faculty of Science & Technology (FST)

## **Urban Areas Crime Detection and Public Safety System**

## A Software Engineering Project Submitted By

Semester: Summer_21_22		Section:	Group Number:	
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#### LAB TASK 1

#### 1. PROJECT PROPOSAL

#### 1.1 Background to the Problem

As Bangladesh is developed rapidly over this century the Crimes in Urban areas are also increased. Year by Year the Crime rate is increasing rapidly if we look at the report published by macrotrends.net we will see the crime rates is increasing from the past years. In 2018 the murder rate of Bangladesh is 2.37% per 100k people which was 2.22% per 100k people in 2017. Drug Addictions among the young Generation. Snatching is also a major social crime and we can see the Alarming rise in Snatching in Urban Areas. In our Society we can see that the Young Generation suffered in frustration for some reasons, and they involved in social crimes. Many citizens in our generation doesn't feel safety when they go outside. But there is no such system that helps our citizens for their safe lifestyle. To Solve those problems we developed an artificial intelligence-based mobile application. This application will helps our citizens when they see any crime in their surrounding, when they feel unsafe, when they see anything unethical.

The root of this problem is Unemployment, drug addiction, frustration, family issues, bad politics. Crime prevention can reduce not only the economic and social costs of crime, but also the long-term costs associated with the criminal justice system, increasing investment in the form of savings in justice, welfare, and social protection.

#### 1.2 Solution to the Problem

Our project is about to develop an artificial intelligence-based mobile application where citizens can notify about the crimes to the near police station, local NGO, local govt organizations and public safety organization, And the system can also find about the types of crime using Artificial Intelligence. From Our Mobile Application, A citizen can also know the crime areas nearest him which will be helpful for his pre-awareness. Our first key feature is, When A citizen see any crimes near him or face any criminal activity he can notify the nearest police station by sending text messages, sending captured pictures or video clips, sending the voice clips, pressing the button in the application. Then the Police station will take the further steps. Our application can also detect the types of crime using the knowledge of his perception sent by the citizen and scanning it. A person can also send message for help to his nearest one, apply for security while travelling from one place to another.

This problem is a real-life problem and one of the obstacles of our development. If we can give the safety to our citizens it will be a great beneficial for our society as well as our country. These projects will significantly help the foreign tourists and our citizens in several ways as we mentioned. It includes crime suppressions, ensuring the safety, prevent young generation from crime and more. It will improve the safety system. Overall, this project will help our citizens in their daily lifestyles and it can solve the social crime problems. Also, it will help the students and the young generations refrain from various types of crimes and drug addiction, which will establish them to be a good and sincere person in the society.

#### LAB TASK 2

## The Chosen Process Model Extreme Programming(XP) Process Model:

We are using SCRUM Process Model which is a Agile Method. We are using this method because when we start to develop our system, we will gather the requirements from the users and we will regularly update the backlog list and we can also priorities the requirements. These stories can provide us the environment related to crime and the crimes they faced, or our citizens faces regularly. And based on the user stories and we prioritise the requirement and work on them. In Scrum programming we can also have the option of working in sprint and in every sprint we works on some requirements and fulfil them. And user's new requirement can also come in the future for the betterment, and which will help us to provide a excellent project. In XP our requirements are regularly updates which is also a good sign to create a good crime detecting application. Customer or User acceptance test is also play a good role in our project. Developers can also get a friendly environment to create this project.

## Why Other Process Model are not good for our project:

We don't choose the Waterfall model as for implementing the waterfall model we have to know all requirements and then start our working. But for our project determining or identify all the requirements are not possible. The types of Crime can change and the requirements are also updates. So Waterfall is unsuitable for our project.

Feedback plays a important role in our project But scrum can't provide us the option of feedback. Without feedback we can not improve many things in our project.

The Only Problem with the DSDM process model is we have to release the final product but in our project if we release only the final product then it will not be so effective and we won't able to identify many lacking's of our project.

FDD is very costly as well as we can not have pair programming here in this process model rather there is a high reliance on one person in this process model. On person have to play multiple role

## Roles and responsibility for Our Project:

#### 1. Customer/User:

Customer/User writes the stories or requirements which we need to implement in our project. They also decide which requirements are fulfilled. From them we can also know the priorities requirements which needs to implement first

#### 2. Programmer:

They Write the code to implement the requirements in our project.

#### 3. Tester:

They will help the customer write functional tests, also run functional tests regularly, broadcast test results and maintain testing tools.

#### 4. Tracker:

They track the progress of our project. They also traces the progress of each iteration and evaluates whether the goal is reachable within the given resource and time constraints or if any changes are needed in the process. He gives the feedback in Extreme.

#### 5.Coach:

Coach is the responsible for the whole project. He guides the project members.

#### 6. Consultant:

If any technical needed to the developer team, he will guide them.

#### 7. Manager (Big Boss):

In our project Manager makes all the decisions

#### LAB TASK 3

## **System Features**

## 1. System Login

#### **Functional Requirements**

- 1. The system will allow all existing users to login into their account with email/mobile number and password.
- 2. To complete the step user have to verify 'his/her self is accessing as human, not a script or bot'.
- 3. If the username or password is incorrect then the system will show an error message "Invalid username or password" and ask to insert those again.
- 4. If the user forgets his/her account password, then he can request to reset his/her account password through email /phone number (used to create an account). And a temporary password will be sent to that email/ phone number for accessing/ resetting the password.
- 5. For 3 times the wrong login attempts the user account will be blocked for 15 minutes.
- 6. If the user's credential is correct then the user will be redirected to his/her account dashboard.

Priority Level: High

**Precondition:** User have to be a valid user, the username and password should be correct.

## 2.Register

#### **Functional Requirements**

- 1. The software will allow every new user to create an account with his/her email/phone number, username, password, and NID.
- 2. The username will contain only letters and numbers. And password would be more than 6
  - characters long that contain capital and small letters, numbers, and special symbols
- 3. Users have to select the account type. If he wants to answer the questions then the user will

select Admin type otherwise Farmers type.

**Priority Level:** High

**Precondition:** User have to have a valid email / phone number, full-fill the username and password constringe, and account type.

#### 3.Local Area Information

Functional requirement: Database

User: All types of Citizens

- 1. A user can get basic information about the area he/she stays.
- 2. Our users can know about crime rates and red zones surrounding him.
- 3. User can consult to the local police station.

## 4.Internal City Different crystal crime Zones Information

## **Functional Requirements**

User: All types of Citizens

- 1. A user can know the vulnerable zones in the city where crime rate is high.
- 2. User can also know the low crime zones.
- 3. The user can see the top crime rate, its reason and the solution to get help from the authorized people mostly.

**Priority Level:** High

**Precondition:** user must input the valid city

## **5.Drugs Information Alert**

#### **Functional Requirements**

**User:** All types of Citizens

1. A user can inform to the police station when he/she will see any student or person is taking drug.

- 2. User can also inform about the drug suppliers.
- 3. The user will see a option to inform about the drugs then he will see there three suboptions-1.Student
  - 2.General People
  - 3.Street Children

if he/she choose the Student or the Street Children then the information will go to the local drug cure center.

if he/she choose the General People then the information will go to the local police and rehabilitation center.

**Priority Level:** High

**Precondition:** User valid information

## **6.Capture Crime**

Functional Requirements : Device camera, Database.

**User:** All types of Citizens

- 1. A user Capture the Scene of the crime and he/she can send it to the police station.
- 2. This captured crime scene will help the police to identify the criminals.
- 3. The user will see a option capture if he/she choose option then his camera will open and he can capture the crime.
- 4. Sometime this feature can also identify the weapon used in the crime by the help of scanning the image.
- 5. When the crime scene will go the police station the local police force can immediately come to the crime spot.

**Priority Level:** High

**Precondition:** User valid information

## 7. Children Safety

#### **Functional Requirements**

**User:** All types of Citizens and specially Parents

- 1. Parents can link their children any digital device to the system which will help to track their children.
- 2. Any user can notify when he will see any children is involved any crime.

- 3. A user can also notify to the police station and children safety organization when he will see any Trafficking of children.
- 4. There is a Option for Children safety in Our system when the user will enter to this option he can inform to the local government children safety organization also the non government children safety organization if he/she sees the children is involved in crime.
- 5. But if the User inform about the children trafficking then the information will go to the nearest local police unit of the place.

Priority Level: High

**Precondition:** User valid information

## 8. Women Safety

#### **Functional Requirements**

User: Women

- 1. There is Women safety Option in our system when a women enter the Option she can ask for help as an emergency.
- 2. Inside the Women safety Option there are some sub options

Safety & emergency -> Emergency SOS.

**Call emergency services** 

## Record emergency video

This sub options will help her in any condition.

3. After choosing the option this app will automatically keep track the women and her locations every two minutes to the nearest police station and local councilor office.

Priority Level: High

## 9.Snatching Alert

#### **Functional Requirements**

**User:** All types of Citizens

- 1. When the User enter any very high snatching area this app will make the user phone vibrate which will help the user to be safe from the snatching problem.
- 2. Any user can notify and ask for help to the local police station about the using our system.
- 3. To inform about the snatching the user will see a option of inform the snatching here he will see the details of the nearest police station and their number he can send them message or he can call them.

Priority Level: High

Precondition: User valid information

## 10.Location Sharing

Functional Requirements: Turn on Location option

**User:** All types of Citizens

- 1. A user can share his location to his friends, parents, local police station or councilor office in case of feeling unsafe or for the safety.
- 2. There is a Share Location Option in our system which will enable the user to share his current location.
- 3. When he will turn on this option his every movement is tracked if the system tracked any unusal movement then there is emergeny meease will sent to his friends, parents, local police station or councilor office. It depends on his current location and how far are they.
- 4. But if the Phone battery is low and the Phone Shut down then the last location untill the Phone is on will be shared automatucally.

Priority Level: High

## 11.Help Alert

#### **Functional Requirements**

**User:** All types of Citizens

- 1. When the User felt unsafe in any place he can choose the Help Alert System from our System.
- 2. Any user from anywhere can communicate for the help with the police.
- 3. There is a option of Help in our system whenever he enter the option and press the urgent help button then the local public safety unit will try to communicate with him or they will try to track his/her location.

4. After tracking the user location the public safety unit or the police unit will help him to reach his destination safely.

## 12. Find Family and Friends

#### **Functional Requirements**

**User:** All types of Citizens

- 1. There is a Option of Find family and friends when a user lost his way or visit any unknown place he/she can enter to the Option and find his friends or family member near his location.
- 2. There are two Option inside the Find family and friends
  - i. I lost my way: which will help him to find his nearest friends or relatives.
  - ii. Track my friends and Family: This option will help if any friend or family member is in danger or sick it will 1<sup>st</sup> ask name of the friend or family member and a message is sent to that person. If the user don't received any reply with in the 10 minutes then the user can ask for the help in the nearest help center of that person.

## 13. Medical Helpline

#### **Functional Requirements**

**User:** All types of Citizens

- 1. A user can ask for the help using Medical Help Option.
- 2. When he enter into the option he can ask for medical treatment if he/she get injured.
- 3. A user can also ask for medical help when he/she see any emergency medical needed his surroundings.
- 4. After giving the Proper information the medical team will reach to the given location where medical treatment is needed.

## 14.Settings

## **Functional Requirements**

## Functional requirement: Digital Device, Phone Number

User: All types of Citizens

- 1. A user can hide his identity after entering the setting option.
- 2. A user can also change his/password or change his location.
- 3. Setting option also helps the user to change his/her general information.

## 15. Previous Crime Experience

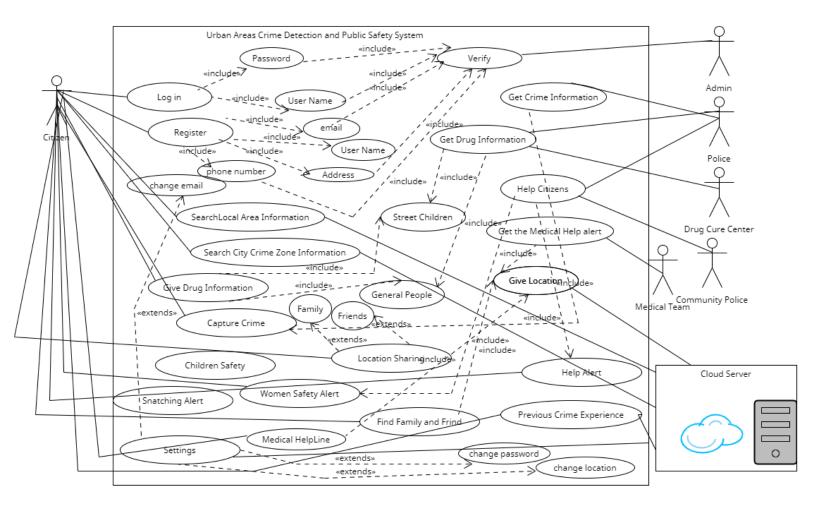
#### **Non Functional Requirements**

User: All types of Citizens

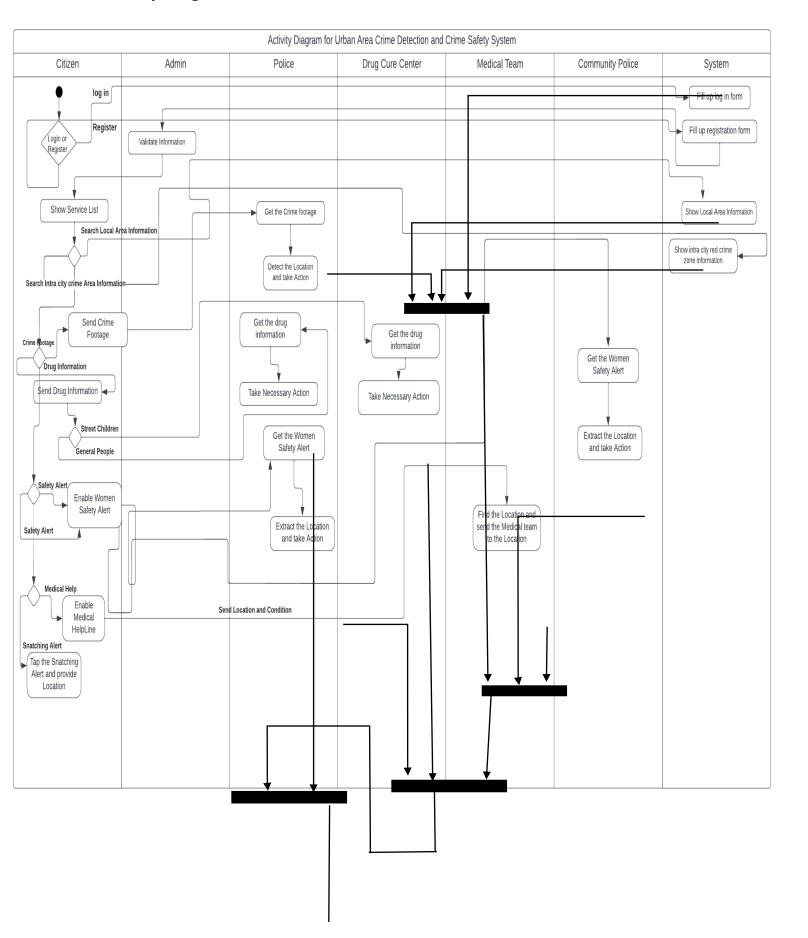
- 1. A user can describe his previous crime experience which he had been faced.
- 2. A user can also describe how helpful our system was while he need helps.

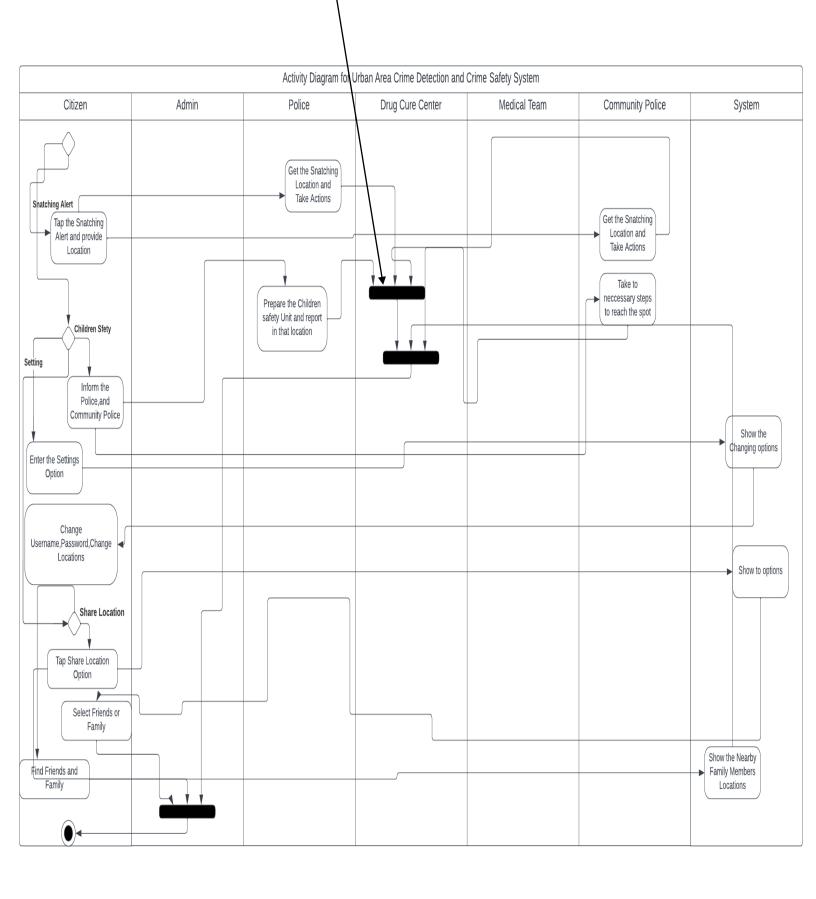
#### LAB TASK 4

## **Use Case Diagram:**

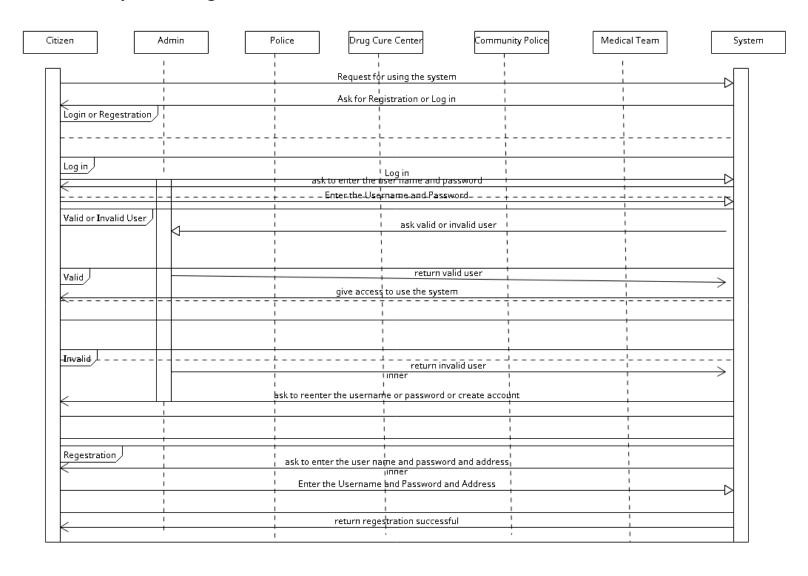


## **Activity Diagram**

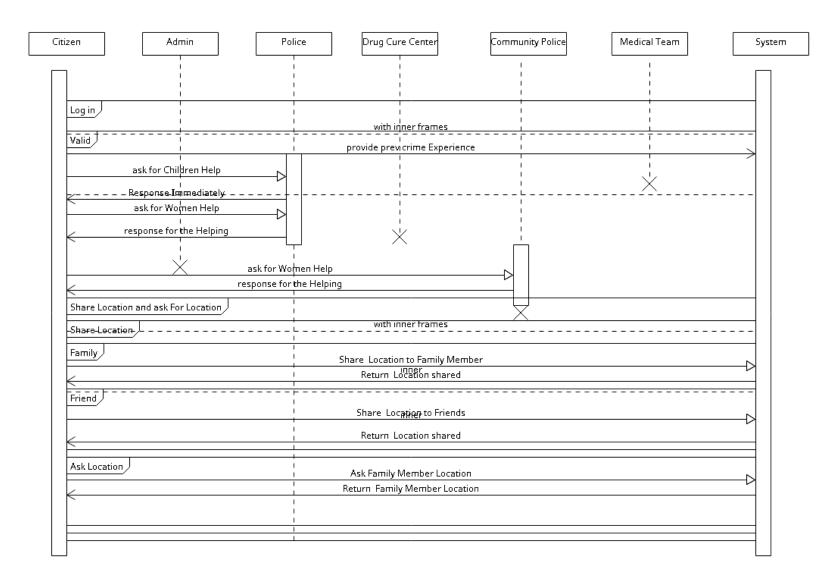


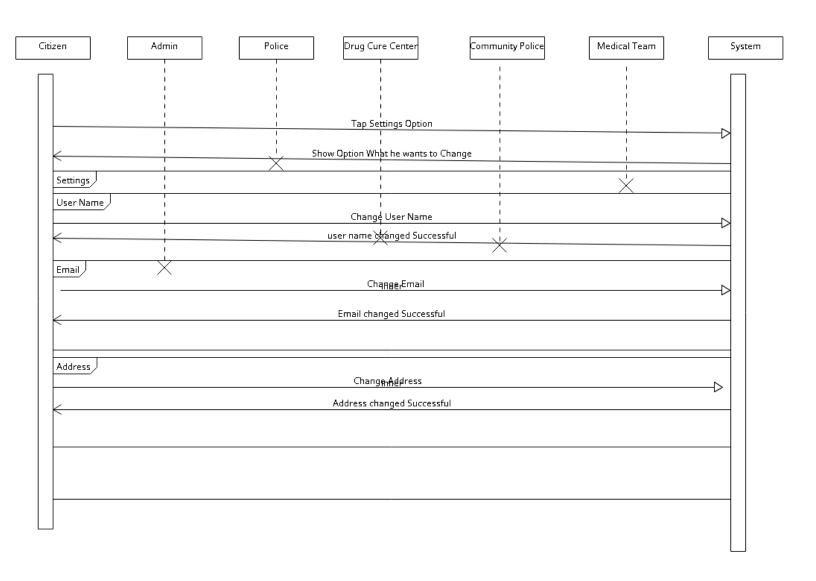


## **Sequence Diagram**

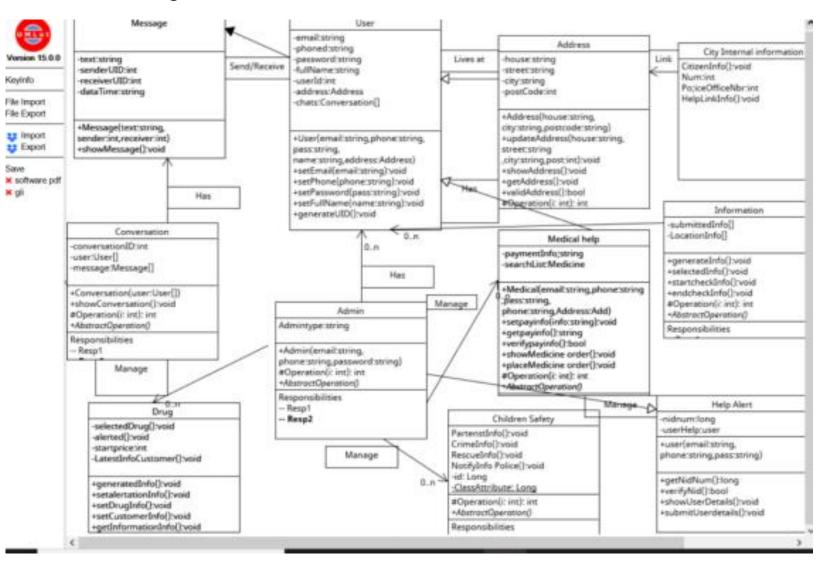


Community Police Drug Cure Center Medical Team Citizen Admin Police System Log in ıппеr Valid / Search Local Area Information return local area information Search Intra City Crime Zone Information return Intra city crime zone information Drug Information with inner frames Inform About Drug Information take necessaryb steps street Children Inform About Drug Information inner take necessaryb steps send captured crime information take necessary Actions tap snatching alert take actions Ask for Medical Help response for Medical Help

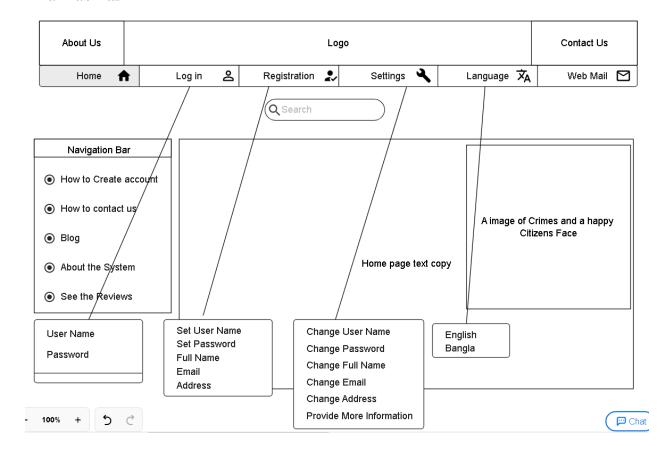


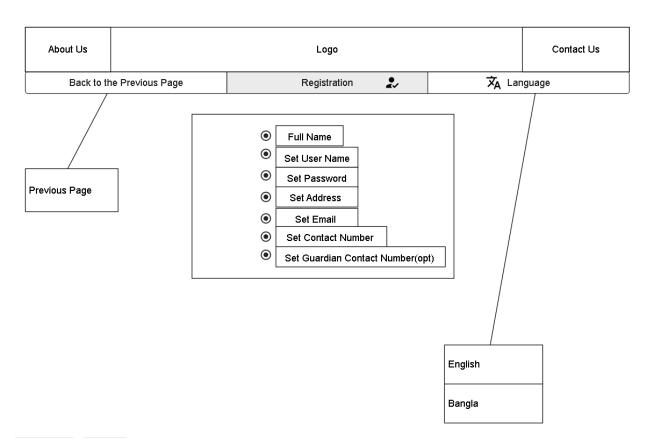


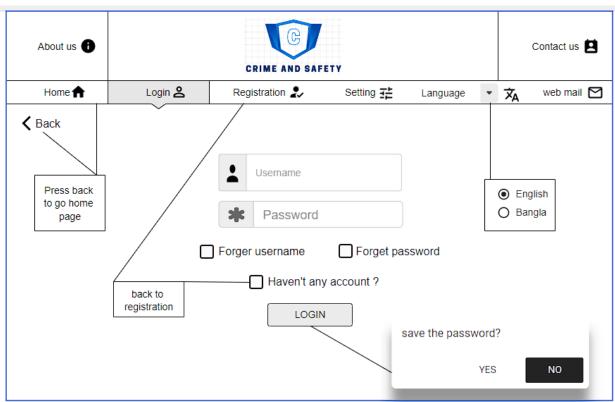
## **Class Diagram**

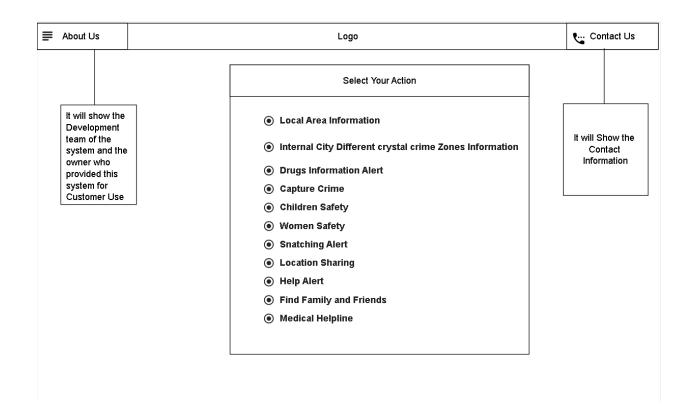


## Final Lab Task 1

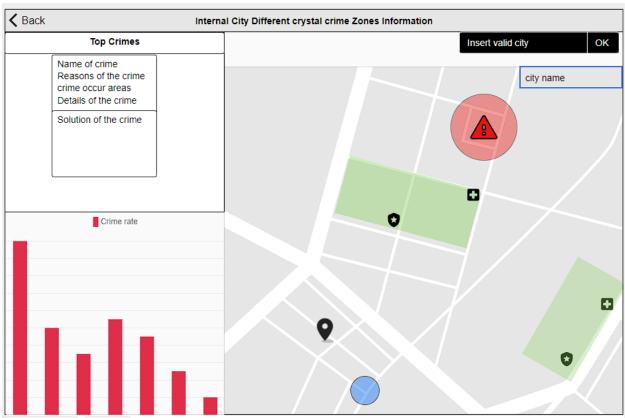


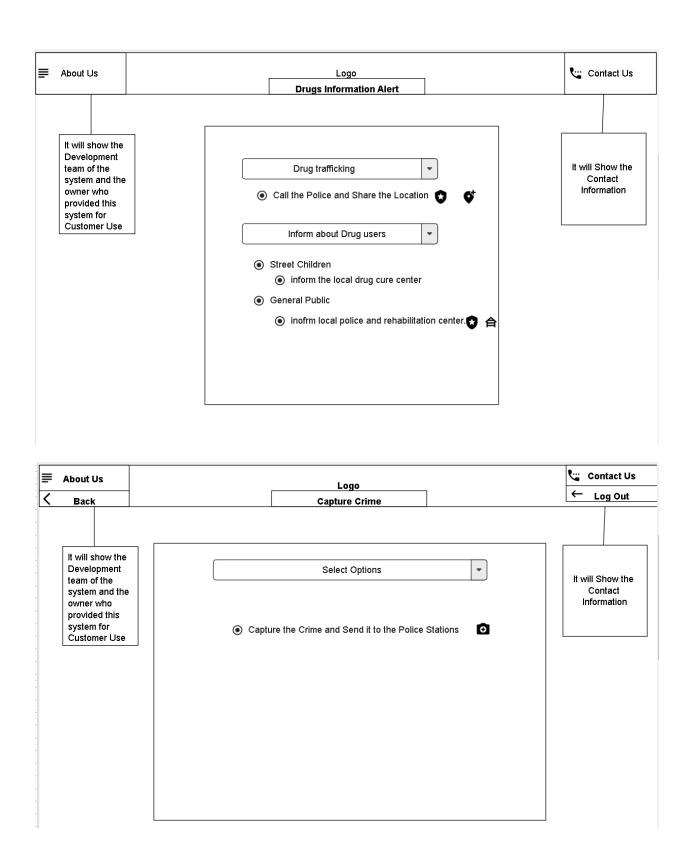


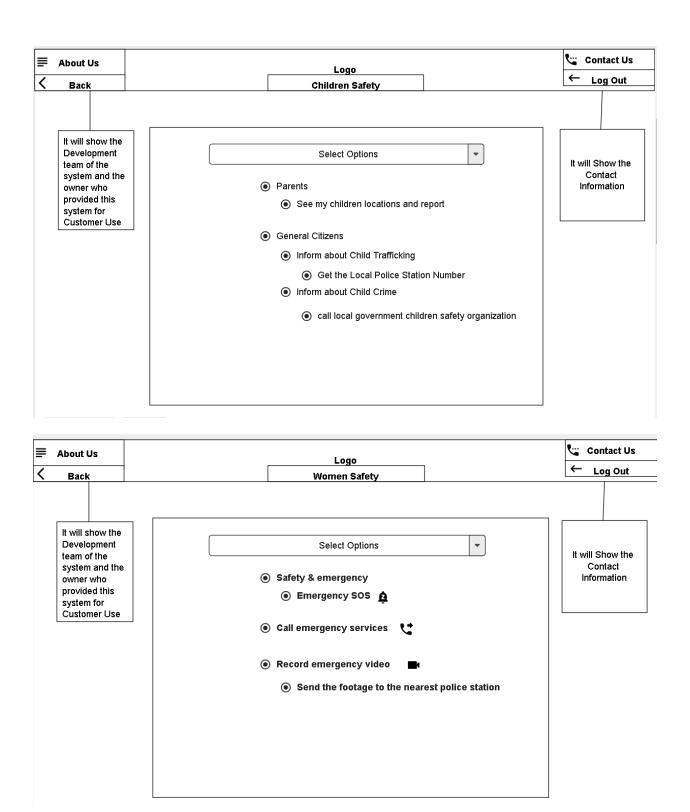


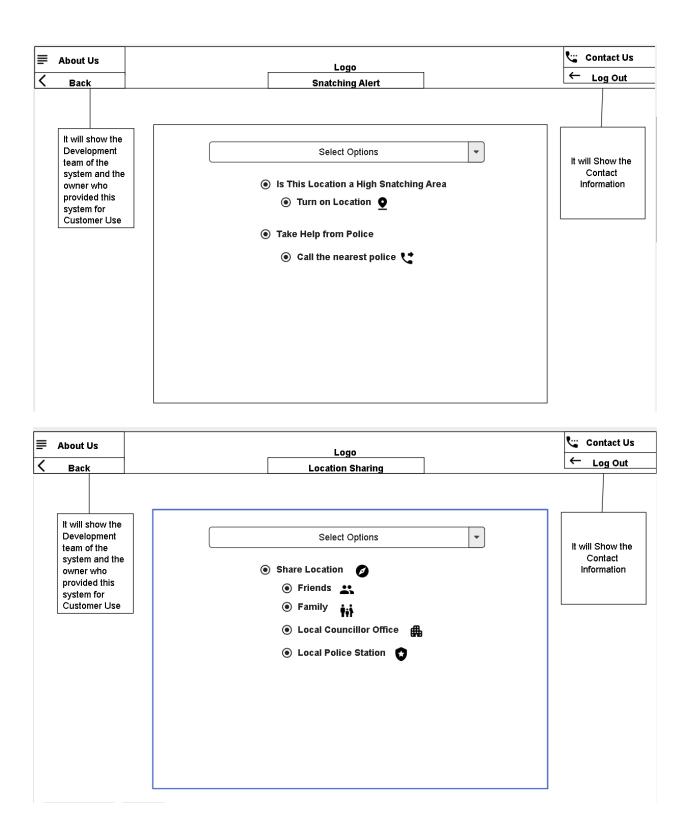


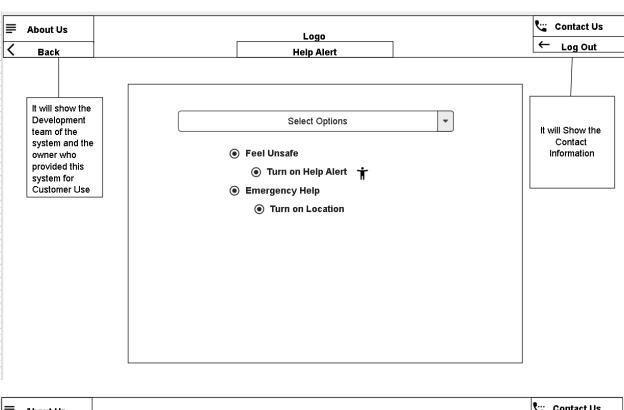


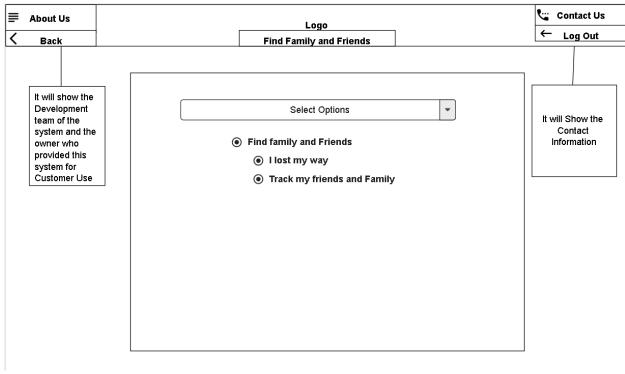


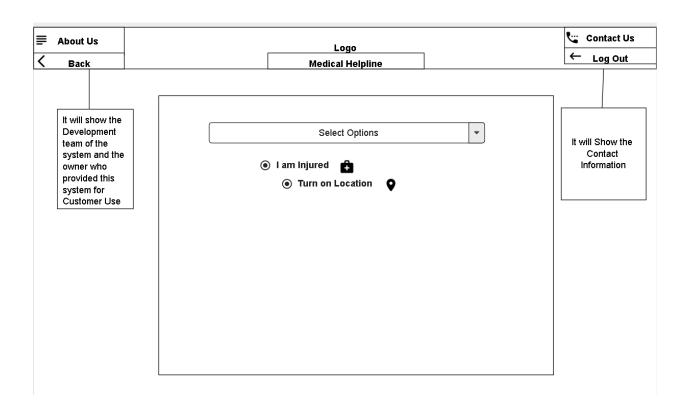












#### Final Lab Task 2

## 1. System Login

Project Name: Urban Areas Crime Detection and Public Safety System	Test Designed by: Rasel Mahmud
Test Case ID: FR_1_1	Test Designed date:11/16/22
Test Priority (Low, Medium, High): Medium	Test Executed by: Rasel Mahmud
Module Name: Login Session	Test Execution date:
Task Tikles and the sign sike solid assessment and assessment	

Test Title: verify login with valid username and password

Description: Test website login page

Precondition (If any): User must have valid username and password

Test Steps	Test Data	<b>Expected Results</b>	Actual Results	Status (Pass/Fail)
1. Go to the website				
2. Enter username	Username:	User should login		
3. Enter password	Rasel123@	into the application		
4. Click submit	Password: 0r7wf5	аррисации		

**Post Condition:** 

Project Name: Urban Areas Crime Detection and Public Safety System	Test Designed by: Rasel Mahmud
Test Case ID: FR_1_2	Test Designed date:11/16/22
Test Priority (Low, Medium, High): Medium	Test Executed by: Rasel Mahmud
Module Name: Login Session	Test Execution date:

Test Title: verify login with valid username and password

**Description: Test website login page** 

Precondition (If any): User must enter the invalid username and password

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website				
2. Enter username	Username:	User shouldn't		
3. Enter password	99999999999999999999999999999999999999	login into the application		
4. Click submit				
Post Condition:				

Project Name: Urban Areas Crime Detection and Public Safety System	Test Designed by: Rasel Mahmud
Test Case ID: FR_1_3	Test Designed date:11/16/22
Test Priority (Low, Medium, High): Medium	Test Executed by: Rasel Mahmud
Module Name: Login Session	Test Execution date:

Test Title: verify login with valid username and password

**Description: Test website login page** 

Precondition (If any): User must enter the forget password option

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website				
2. Enter Forget Password	Enter email:	User should		
3. Enter email/phone	rasel@gmail.com	Get the link to		
number	Or	reset his		
	Phone: 01*****	password and username		

## 2. Register

Project Name: Urban Areas Crime Detection and Public Safety System	Test Designed by: Rasel Mahmud
Test Case ID: FR_2_1	Test Designed date:11/16/22
Test Priority (Low, Medium, High): High	Test Executed by: Rasel Mahmud
Module Name: Registration Session	Test Execution date:

Test Title: verify registration with valid name ,valid , address , Email ,username and password

**Description: Test website registration page** 

Precondition (If any): User must have valid username, name, unique email, address, Phone and password

Test Steps	Test Data	Expected	Actual	Status (Pass/Fail)
		Results	Results	
1. Go to the website				
2. Enter name	Name: Rasel	User should		
3. Enter username	Username: raselpinon	register into the application		
4. Enter address	Address: aziz			
5. Enter password	stress,house name**,flat			
6. Enter phone	number**,4207			
7.Enter Email	password :127ofsww			
8. Click submit	phone:01******			
	Email:ras**@gmail.com			
D : 0 !!!!				

**Post Condition:** 

Project Name: Urban Areas Crime Detection and Public Safety System	Test Designed by: Rasel Mahmud
Test Case ID: FR_2_2	Test Designed date:11/16/22
Test Priority (Low, Medium, High): High	Test Executed by: Rasel Mahmud
Module Name: Registration Session	Test Execution date:

Test Title: verify registration with valid name ,valid , address , Email ,username and password

Description: Test website registration page

Precondition (If any): User must enter invalid username/invalid name/duplicate email/invalid address/invalid Phone and password

Test Steps	Test Data	<b>Expected Results</b>	Actual Results	Status (Pass/Fail)
1. Go to the website				
2. Enter name	Name: Rasel456	User shouldn't		
3. Enter username	Username: 01527	register into the application		
4. Enter address	Address: aziz			
5. Enter password	stress,house name**,flat			
6. Enter phone	number**,4207			
7.Enter Email	password :127ofsww			
8. Click submit	phone:01***odd****			
	Email:ras**@gmail.com			

**Post Condition:** 

## 3. Local Area Information

Project Name: Urban Areas Crime Detection and Public Safety System	Test Designed by: Rasel Mahmud
Test Case ID: FR_3_1	Test Designed date:11/16/22
Test Priority (Low, Medium, High): High	Test Executed by: Rasel Mahmud
Module Name: local area information feature Session	Test Execution date:

Test Title: get the local area information around the user from the system

**Description: Test systems Local Area Information Feature** 

Precondition (If any): Have a valid Account

Test Data	<b>Expected Results</b>	Actual Results	Status (Pass/Fail)
Location: Turn	User should get all		
on	the crime spot around the local		
Enter the area name:(optional)	area		
	Location: Turn on Enter the area	Location: Turn on the crime spot around the local area	Location: Turn on the crime spot around the local area

Project Name: Urban Areas Crime Detection and Public Safety System	Test Designed by: Rasel Mahmud
Test Case ID: FR_3_2	Test Designed date:11/16/22
Test Priority (Low, Medium, High): High	Test Executed by: Rasel Mahmud
Module Name: local area information feature Session	Test Execution date:

Test Title: get the local area information around the user from the system

**Description: Test systems Local Area Information Feature** 

Precondition (If any): Have a valid Account

1. Go to the website			
2. Login into the System	Location: Turn	User shouldn't get	
3.Turn on Location	off	all the crime spot around the local	
4. Click the get Local area	Enter the invalid area name: XXX	area and show	
Information		invalid command	
5. Click show			
6.Back To the Previous Page			

**Post Condition:** 

Project Name: Urban Areas Crime Detection and Public Safety System	Test Designed by: Rasel Mahmud
Test Case ID: FR_3_3	Test Designed date:11/16/22
Test Priority (Low, Medium, High): High	Test Executed by: Rasel Mahmud
Module Name: local area information feature Session	Test Execution date:

Test Title: Back to the home page of the system from the Local Area Information Feature

**Description: Test systems Local Area Information Feature** 

Precondition (If any): Have a valid Account

Test Steps	Test Data	<b>Expected Results</b>	Actual Results	Status (Pass/Fail)
1. Go to the website				
2. Login into the System	Click: Back to	The system should		
<b>0.7</b>	the Previous	take the user to		
3.Turn on Location	Page	the home page		
		from the Local		

4.Click Back To the Previous	Area Information		
Page	page		
Post Condition:			

## 4. Internal City Different crystal crime Zones Information

Project Name: Urban Areas Crime Detection and Public Safety System	Test Designed by: Rasel Mahmud
Test Case ID: FR_4_1	Test Designed date:11/16/22
Test Priority (Low, Medium, High): High	Test Executed by: Rasel Mahmud
Module Name: Internal City Different crystal crime Zones Information feature Session	Test Execution date:

Test Title: get the Internal City Different crystal crime Zones Information from the system

Description: Test systems Internal City Different crystal crime Zones Information Feature

Precondition (If any): Have a valid Account

Test Steps	Test Data	<b>Expected Results</b>	Actual Results	Status (Pass/Fail)
1. Go to the website				
2. Login into the System	Enter the City	User should get all		
3.Turn on Location	Name: Dhaka	the crystal		
		crime <b>Zones</b>		
4. Click the get Internal City		information in the		
Different crystal crime Zones		City		
Information				
5. Click show				

6.Back To the Previous Page			
Post Condition:			

Project Name: Urban Areas Crime Detection and Public Safety System	Test Designed by: Rasel Mahmud
Test Case ID: FR_4_2	Test Designed date:11/16/22
Test Priority (Low, Medium, High): High	Test Executed by: Rasel Mahmud
Module Name: Internal City Different crystal crime Zones Information feature	Test Execution date:
Session	

Test Title: get the Internal City Different crystal crime Zones Information from the system

Description: Test systems Internal City Different crystal crime Zones Information Feature

Precondition (If any): Have a valid Account

Test Steps	Test Data	<b>Expected Results</b>	Actual Results	Status (Pass/Fail)
1. Go to the website				
2. Login into the System	Enter the City	User shouldn't get		
3.Turn on Location	Name: Dhaka	all crystal crime		
3. rum on Location		Zones information		
4. Click the get Internal City		in the City and		
<b>Different</b> crystal crime <b>Zones</b>		show invalid		
Information		command		
5. Click show				
6.Back To the Previous Page				
Post Condition:				

Test Designed by: Rasel Mahmud
Test Designed date:11/16/22
Test Executed by: Rasel Mahmud
Test Execution date:

Test Title: get the Internal City Different crystal crime Zones Information from the system

Description: Test systems Internal City Different crystal crime Zones Information Feature

Precondition (If any): Have a valid Account

Test Steps	Test Data	<b>Expected Results</b>	Actual Results	Status (Pass/Fail)
1. Go to the website				
2. Login into the System	Click: Back to	The system should		
	the Previous	take the user to		
3.Turn on Location	Page	the home page		
4. Click the get Internal City		from Internal City		
Different crystal crime Zones		Different crystal		
Information		crime <b>Zones</b>		
5. Click show		Information page		
6.Back To the Previous Page				

#### **5.Drugs Information Alert**

Project Name: Urban Areas Crime Detection and Public Safety System	Test Designed by: Sanid
Test Case ID: FR_5_1	Test Designed date:11/16/2022
Test Priority (Low, Medium, High): Medium	Test Executed by: Sanid
Module Name: Information of Drug	Test Execution date:11/16/2022

Test Title: verify the information of drug sent by the user

Description: Testing the information of drug from the website.

Precondition (If any): Have a valid Account.

Test Data	Expected Results	Actual Results	Status (Pass/Fail)
Select the Drug User Type:			
Children/Adult/None			
	The Information will		
If None then Write What	go the Local Drug		
Information I want to Provide: Drug	Cure Center if There is Valid User Type		
Dealer/Supplier	and match with the drug type.		
Enter the Drug Type: Tablet/Liquid/Others	The Information will go to the Police		
Enter the Location:****	Drug Dealer/Supplier		
	Select the Drug User Type: Children/Adult/None  If None then Write What Information I want to Provide: Drug Dealer/Supplier  Enter the Drug Type: Tablet/Liquid/Others	Select the Drug User Type: Children/Adult/None  The Information will go the Local Drug Cure Center if There is Valid User Type and match with the drug type.  Enter the Drug Type: Tablet/Liquid/Others  The Information will go to the Police Station if user select Drug Drug	Children/Adult/None  The Information will go the Local Drug Cure Center if There is Valid User Type and match with the drug type.  Enter the Drug Type: Tablet/Liquid/Others  The Information will go to the Police Station if user select Drug  Drug

Project Name: Urban Areas Crime Detection and Public Safety System	Test Designed by: Rasel
Test Case ID: FR_5_2	Test Designed date:11/16/2022
Test Priority (Low, Medium, High): Medium	Test Executed by: Rasel
Module Name: Information of Drug	Test Execution date:11/16/2022

Test Title: verify the information of drug sent by the user

Description: Testing the information of drug from the website.

Precondition (If any): Have a valid Account.

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website	Select the Drug User Type:			
2. Login into the System	Children/Adult/None			
3. Click the get Drug		If the User provide a		
Information Alert	Capture/Video(Opt):Picture	invalid Location or if		
4. Click Open Camera or	or video	the user send a picture/video not		
Click I want to write the		related to drug then		
Information in text.	Select None then Write What Information I want to	show please provide us valid		
5.Back To the Previous Page	Provide: Drug Dealer/Supplier	Information		
	Enter the Drug Type:			
	Tablet/Liquid/Others			
	Fotoutho Location Invalid			
	Enter the Location: Invalid Location			

Project Name: Urban Areas Crime Detection and Public Safety System	Test Designed by: Rasel
Test Case ID: FR_5_3	Test Designed date:11/16/2022
Test Priority (Low, Medium, High): Medium	Test Executed by: Rasel
Module Name: Information of Drug	Test Execution date:11/16/2022

Test Title: verify the information of drug sent by the user

Description: Testing the information of drug from the website.

Precondition (If any): Have a valid Account.

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website				
2. Login into the System				
3. Click the get Drug Information Alert	Select: Back to the previous page	The system should take the user to the		
4. Click Open Camera or		home page from Drug Information		
Click I want to write the		page		
Information in text.				
5.Back To the Previous Page				

#### **6.Capture Crime**

Project Name: Urban Areas Crime Detection and Public Safety System	Test Designed by: Sanid
Test Case ID: FR_6_1	Test Designed date:11/16/2022
Test Priority (Low, Medium, High): High	Test Executed by: Sanid
Module Name: Capture the crime.	Test Execution date:11/16/2022

Test Title: Verify the Scenario of Crime from the Captured Picture.

Description: Capture the crime Testing result is worked successfully.

Precondition (If any): Have a valid Account working camera on the device.

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website	Open Camera:			
2. Login into the System	Click Open Camera	The Pictures first verified by		
3. Click Capture Crime Option		the help of AI then Sent to the Nearby police station		
4. Turn on Location/ Send Location	Click: Enter Click	depending on the Location		
5. Click on Open Camera	Send: Send the			
6.Send Pictures	Pictures			
7.Back To the Previous Page	Location: I have Already Turned on/ Type the Location			
Post Condition:				

Project Name: Urban Areas Crime Detection and Public Safety System	Test Designed by: Rasel
Test Case ID: FR_6_2	Test Designed date:11/16/2022

Test Priority (Low, Medium, High): High	Test Executed by: Rasel
Module Name: Capture the crime.	Test Execution date:11/16/2022

Test Title: Verify the Scenario of Crime from the Captured Picture.

Description: Capture the crime Testing result is worked successfully.

Precondition (If any): Have a valid Account and working camera on the device.

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website	Open Camera: Click Open			
2. Login into the System	Camera	The Pictures first verified by the help of AI and it		
3. Click Capture Crime Option		seems not related to		
4. Turn on Location/ Send	Click: Enter	crime/ the location is not appropriate then show		
Location	Click	Please Provide Correct		
5. Click on Open Camera	Send: Send the	Information		
6.Send Pictures	Pictures			
7.Back To the Previous Page	Location: I have Already Turned			
	on/ Type the			
	Location			
Post Condition:	l			

<b>Project Name: Urban Areas Crime Detection and Public Safety System</b>	Test Designed by: Rasel
Test Case ID: FR_6_3	Test Designed date:11/16/2022
Test Priority (Low, Medium, High): High	Test Executed by: Rasel
Module Name: Capture the crime.	Test Execution date:11/16/2022

**Test Title: Verify the Scenario of Crime from the Captured Picture.** 

Description: Capture the crime Testing result is worked successfully.

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website				
2. Login into the System	Back to the Previous	The system should take		
3.Click Back To the Previous	Page: Enter	the user to the home page		
Page		from Capture the crime		
		page		

# 7. Children Safety

Project Name: Urban Areas C	System	Test Designed by: Sanid				
Test Case ID: FR_7_1			Test Designed date:11/16/2022			
Test Priority (Low, Medium, High): High			Test Executed by: Sanid			
Module Name: Children Safety			Test Execution date:11/16/2022			
Test Title: verify the children s	Test Title: verify the children safety feature in the system.					
Description: children safety fe	Description: children safety feature is working correctly.					
Precondition (If any): Have a v	Precondition (If any): Have a valid Account.					
Test Steps	Test Data	Expected	Results	Actual Results	Status (Pass/Fail)	

1. Go to the website	Select User: Parent/ General		
2. Login into the System	People		
3. Click Children Option 4.Back to the Previous Page	Children involved in Crime: Yes/No Report About Child Trafficking: Yes/No  If Yes: Call Police	If the user call the police it should work correctly  And if the user call for emergency child safety then the call should be work perfectly	
	Child Safety Emergency: Call Now	If option choose their children trackers should work perfectly	

Project Name: Urban Areas Crime Detection and Public Safety System			Test Designed by: Rasel		
Test Case ID: FR_7_2			Test Designed date:11/16/2022		
Test Priority (Low, Medium, High): High			Test Executed by: Rasel		
Module Name: Children Safety			Test Execution date:11/16/2022		
Test Title: verify the	hildren safety feature in the syster	n.			
Description: children safety feature is working correctly.					
Precondition (If any):	Have a valid Account.				
Test Steps	Test Data	Expected Resul	ts Actual Results	Status (Pass/Fail)	

1. Go to the website	Select User: Parent/ General		
2. Login into the System	People		
3. Click Children Option 4.Back to the Previous Page	Children involved in Crime: Yes/No Report About Child Trafficking:	If the user call the police and Emergency unit for	
	Yes/No  If Yes: Call Police	child safety without ay reason then a warning should be sent to the user from the system	
	Child Safety Emergency: Call Now		
Post Condition: None			

<b>Project Name: Urban Areas Crime Detection and Public Safety System</b>			Test Designed by: Rasel		
Test Case ID: FR_7_2			Test Designed date:11/16/2022		
Test Priority (Low, M	edium, High): High	Test Exe	Test Executed by: Rasel		
Module Name: Child	ren Safety	Test Exe	Test Execution date:11/16/2022		
Test Title: verify the	children safety feature in the sys	tem.			
Description: children	safety feature is working correct	tly.			
Precondition (If any):	Have a valid Account.				
Test Steps Test Data Expected Results		Actual	Status (Pass/Fail)		
			Results		

1. Go to the website			
2. Login into the System			
Click Children Option     A.Back to the Previous Page	Back to the Previous Page: Click	The system should take the user to the home page from children safety feature page	
Post Condition: None		<u> </u>	<u> </u>

## 8. Women Safety

Project Name: Urban area and social crime detection	Test Designed by: Md.Nafiul Islam Nayeem
Test Case ID: FR_8_1	Test Designed date: 16.11.2022
Test Priority (Low, Medium, High): High	Test Executed by: Md.Nafiul Islam Nayeem
Module Name: Women Safety	Test Execution date:

Test Title: Help For Women Safety.

Description: Test Women Safety in website feature page

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website	Location: Turn on			
2. Log in successfully				
3. Click on women safety	Valid location: Road-	The notification from		
4. Choose option	A/12	the user should sent nearest police station		
5. Click Submit		or councilor office by		
6. Back	Send Emergency notification: Police/local councilor	emergency call or video record or message signal.		
	office.			

	Call emergency: 999		
	Record emergency video for prove: Turn on camera		
Post Condition:			

Project Name: Urban area and social crime detection	Test Designed by: Md.Nafiul Islam Nayeem
Test Case ID: FR_8_2	Test Designed date: 16.11.2022
Test Priority (Low, Medium, High): High	Test Executed by: Md.Nafiul Islam Nayeem
Module Name: Women Safety	Test Execution date:

Test Title: Help For Women Safety.

Description: Test Women Safety in website feature page

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)

1. Go to the website	Location: Turn	
2. Log in successfully	on	If the location is turn off then
3. Click on women safety		The user should not go further.
4. Choose option	Valid location: Road-A/12	
5. Click Submit		If the video is irrelevant then
6. Back	Send Emergency notification: Police/local	the system will show your information are irrelevant for this feature
	councilor office.	If the user call in the
		emergency unit without any
	Call emergency: 999	reason she should get a warning message
	Record emergency video for prove: Turn on camera	
Post Condition:	1	

Project Name: Urban area and social crime detection	Test Designed by: Rasel
Test Case ID: FR_8_3	Test Designed date: 16.11.2022
Test Priority (Low, Medium, High): High	Test Executed by: Rasel
Module Name: Women Safety	Test Execution date:

Test Title: Help For Women Safety.

Description: Test Women Safety in website feature page

Precondition (If any): User must have a valid account

1. Go to the website 2. Log in successfully 3. Click on women safety 4. Choose option 5. Click Submit 6. Back  The system should take the user to the home page from Women Safety page  Go to the previous page: Click	t Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
3. Click on women safety  4. Choose option  5. Click Submit  Go to the previous page:	Go to the website				
3. Click on women safety 4. Choose option 5. Click Submit 6. Rack 6. Rack Women Safety page  Women Safety page	og in successfully		•		
5. Click Submit Go to the previous page:	Click on women safety		, ,		
previous page:	Choose option				
6 Back	Click Submit				
	Back				

## **9.**Snatching Alert

Project Name: Urban area and social crime detection	Test Designed by: Md.Nafiul Islam Nayeem
Test Case ID: FR_9_1	Test Designed date: 16.11.2022
Test Priority (Low, Medium, High): High	Test Executed by: Md.Nafiul Islam Nayeem
Module Name: Snatching Alert	Test Execution date:

Test Title: By snatching alert to help user.

**Description: Test Snatching alert in website feature page** 

Precondition (If any): User must have a valid account

Test Steps	Test Data	Expected	Actual Results	Status (Pass/Fail)
		Results		
1. Go to the website	Location Turn on			
2. Log in successfully		User could		
3. Click on snatching alert	Valid Location: GP road	notify local police and get		
4. Choose option	A/222	help from 999.		
5. Click Submit				
6. Back	User notify local police			
	station.			
	No. 2 State of the			
	User Phone vibration will help from snatching			
	Auto call : 999			
	Auto can . 333			

Project Name: Urban area and social crime detection	Test Designed by: Md.Nafiul Islam Nayeem
Test Case ID: FR_9_2	Test Designed date: 16.11.2022
Test Priority (Low, Medium, High): High	Test Executed by: Md.Nafiul Islam Nayeem
Module Name: Snatching Alert	Test Execution date:

Test Title: By snatching alert to help user.

Description: Test Snatching alert in website feature page

Precondition (If any): User must have a valid account

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website	Location Turn off			
2. Log in successfully		User could not notify		
3. Click on snatching alert	Invalid area: GP	local police station and will not any get help		
4. Choose option	Road A/222	police station.		
5. Click Submit				
6. Back	User failed to notify local police station.			
	System failed to			
	vibrate and can not			
	get any safety alert			
	No Auto call From :			
	999			

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

Project Name: Urban area and social crime detection	Test Designed by: Rasel
Test Case ID: FR_9_3	Test Designed date: 16.11.2022
Test Priority (Low, Medium, High): High	Test Executed by: Rasel
Module Name: Snatching Alert	Test Execution date:

Test Title: By snatching alert to help user.

**Description: Test Snatching alert in website feature page** 

Precondition (If any): User must have a valid account

Test Data	Expected Results	Actual Results	Status (Pass/Fail)
Back to the Previous Page: Click			
	The system should take		
	page from snatching		
	alert page		
		Back to the Previous Page: Click The system should take the user to the home page from snatching	Back to the Previous Page: Click The system should take the user to the home page from snatching

## **10.Location Sharing**

Project Name: Urban area and social crime detection	Test Designed by: Md.Nafiul Islam Nayeem
Test Case ID: FR_10_1	Test Designed date: 16.11.2022
Test Priority (Low, Medium, High): High	Test Executed by: Md.Nafiul Islam Nayeem
Module Name: Location Sharing	Test Execution date:

Test Title: User share location for feeling unsafe

Description: Test sharing in website feature page

Test Data	Expected Results	Actual Results	Status (Pass/Fail)
Location turn on			
	The location should be		
Valid Location: F	shared to the user friends and family.		
DIOCK/222			
Share Location:			
Friend/Family			
	Location turn on  Valid Location: F block/222  Share Location:	Location turn on  Valid Location: F block/222  The location should be shared to the user friends and family.  Share Location:	Location turn on  Valid Location: F block/222  The location should be shared to the user friends and family.  Share Location:

Project Name: Urban area and social crime detection	Test Designed by: Md.Nafiul Islam Nayeem
Test Case ID: FR_10_2	Test Designed date: 16.11.2022
Test Priority (Low, Medium, High): High	Test Executed by: Md.Nafiul Islam Nayeem
Module Name: Location Sharing	Test Execution date:

Test Title: User share location for feeling unsafe

Description: Test sharing in website feature page

Precondition (If any): User must have a valid account

Test Steps	Test Data	<b>Expected Results</b>	Actual Results	Status (Pass/Fail)
1. Go to the website	Location Turn	System should fail		
2. Log in successfully	off	to share the user last location.		
3. Click on sharing location				
4. Choose option	InValid Location:			
5. Click Sumit	pp Road/232			
6. Back				

**Post Condition:** 

Project Name: Urban area and social crime detection	Test Designed by: Rasel
Test Case ID: FR_10_3	Test Designed date: 16.11.2022
Test Priority (Low, Medium, High): High	Test Executed by: Rasel
Module Name: Location Sharing	Test Execution date:

Test Title: User share location for feeling unsafe

Description: Test sharing in website feature page

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)

1. Go to the website	Back to the	The system	
2.1	Previous Page:	should take the	
2. Log in successfully	Click	user to the home	
3. Click on sharing location		page from	
		Location Sharing	
4. Choose option		page	
5. Click Submit			
6. Back			
Post Condition:			

#### 11.Help Alert

Project Name: Urban area and social crime detection	Test Designed by: Md. Atikur Rahman
Test Case ID: FR_11_1	Test Designed date: 11/16/2022
Test Priority (Low, Medium, High): High	Test Executed by: Md. Atikur Rahman
Module Name: Help Alert	Test Execution date:

Test Title: send help alert when feel unsafe and emergency

Description: Test help alert in website feature page

Test Steps	Test Data	<b>Expected Results</b>	Actual Results	Status (Pass/Fail)
1. Go to the website				
2. Login Successfully	• Valid location: gproad-A/237	User could notify		
3. Click on help alert	Notify nearest police	nearest police station and get call from 999		
4. Click Select option	station • Auto call: 999			
5. Choose option				
6. Click submit				

7. Back		
<b>Post Condition:</b>		

Project Name: Urban area and social crime detection	Test Designed by: Md. Atikur Rahman
Test Case ID: FR_11_2	Test Designed date: 11/16/2022
Test Priority (Low, Medium, High): High	Test Executed by: Md. Atikur Rahman
Module Name: Help Alert	Test Execution date:

Test Title: send help alert when feel unsafe and emergency

Description: Test help alert in website feature page

Test Steps	Test Data	<b>Expected Results</b>	Actual Results	Status (Pass/Fail)
1. Go to the website				
2. Login Successfully	• Valid location: kllp/234	User couldn't notify nearest police station		
3. Click on help alert	Notify failed nearest	and will not get any		
4. Click Select option	<ul><li>police station</li><li>No Auto calls</li></ul>	responded call		
5. Choose option				
6. Click submit				
7. Back				
<b>Post Condition:</b>				

Project Name: Urban area and social crime detection	Test Designed by: Rasel
Test Case ID: FR_11_3	Test Designed date: 11/16/2022
Test Priority (Low, Medium, High): High	Test Executed by: Rasel
Module Name: Help Alert	Test Execution date:

Test Title: send help alert when feel unsafe and emergency

**Description:** Test help alert in website feature page

Precondition (If any): User must have valid account

Test Steps	Test Data	<b>Expected Results</b>	Actual Results	Status (Pass/Fail)
1. Go to the website				
2. Login Successfully	Back to the Previous	The system should		
3. Click on help alert	Page: Click	take the user to the home page from		
4. Click Select option		Help Alert page		
5. Choose option				
6. Click submit				
7. Back				

#### 12. Find Family and Friends

Project Name: Urban area and social crime detection	Test Designed by: Md. Atikur Rahman
Test Case ID: FR_12_1	Test Designed date: 11/16/2022
Test Priority (Low, Medium, High): High	Test Executed by: Md. Atikur Rahman
Module Name: Find Family and Friends	Test Execution date:

Test Title: Find way and find family members and friends

Description: Test present location, find location way and trace family members and friends.

Precondition (If any): User must have valid account and valid current location

Test Steps	Test Data	<b>Expected Results</b>	Actual Results	Status (Pass/Fail)
<ol> <li>Go to the website</li> <li>Login Successfully</li> <li>Click on Find Family and Friends</li> <li>Click Select option</li> <li>Choose option</li> <li>Click submit</li> <li>Back</li> </ol>	<ul> <li>Valid location:         rproad-A/237</li> <li>Trace nearest family         members or friends</li> <li>Notify nearest police         or any other         emergency         organizations of         traced person</li> </ul>	User could find his/her family member or friends and notify nearest emergency organizations of traced person		

Project Name: Urban area and social crime detection	Test Designed by: Md. Atikur Rahman
Test Case ID: FR_12_2	Test Designed date: 11/16/2022
Test Priority (Low, Medium, High): High	Test Executed by: Md. Atikur Rahman
Module Name: Find Family and Friends	Test Execution date:

Test Title: Find way and find family members and friends

Description: Test present location, find location way and trace family members and friends.

Precondition (If any): User must have valid account and valid current location

Test Steps	Test Data	<b>Expected Results</b>	Actual	Status
			Results	(Pass/Fail)
1. Go to the website	Valid location: rrr/2245			
2. Login Successfully	• Can't trace nearest family members or	User couldn't find his/her		
3. Click on Find Family and Friends	friends • Can't notify nearest police or any other	family member or friends and couldn't notify nearest emergency organizations of		
4. Click Select option	emergency organizations of traced person	traced person		
5. Choose option				
6. Click submit				
7. Back				
Post Condition:			I.	I

Project Name: Urban area and social crime detection	Test Designed by: Rasel
Test Case ID: FR_12_3	Test Designed date: 11/16/2022
Test Priority (Low, Medium, High): High	Test Executed by: Rasel
Module Name: Find Family and Friends	Test Execution date:

Test Title: Find way and find family members and friends

Description: Test present location, find location way and trace family members and friends.

Precondition (If any): User must have valid account and valid current location

Test Steps	Test Data	<b>Expected Results</b>	Actual Results	Status (Pass/Fail)
1. Go to the website	Back to the Previous			
2. Login Successfully	Page: Click	The system should		
3. Click on Find Family and		take the user to the		
Friends		home page from find		
4. Click Select option		family members and		
5. Choose option		friends		
6. Click submit		page		
7. Back				
<b>Post Condition:</b>		l	I	1

#### 13. Medical Helpline

Project Name: Urban area and social crime detection			Test Designed by: Md. Atikur Rahman		
Test Case ID: FR_13_1			Test Designed date: 11/16/2022		
Test Priority (Low, Medium	rity (Low, Medium, High): High  Test Executed by: Md. Atikur		Test Executed by: Md. Atikur Rahman		
Module Name: Medical Helpline			Test Execution date:		
Test Title: Ask for medical help					
Description: Test medical help responses from nearest medical centers					
Precondition (If any): User must have valid account and valid location					
Test Steps	Test Data	Expected Resu	ults Actual Status (Pass/Fai Results		

1. Go to the website			
<ul><li>2. Login Successfully</li><li>3. Click on medical helpline</li></ul>	<ul><li> Valid location: Bproad-A/558</li><li> Notify nearest</li></ul>	User could notify nearest medical centers and get call	
4. Click Select option	medical centers  • Auto call: 222  • Contract with	from 222	
5. Choose option	nearest medical		
6. Click submit	centers		
7. Back			
Post Condition:			

Project Name: Urban area and social crime detection	Test Designed by: Md. Atikur Rahman
Test Case ID: FR_13_2	Test Designed date: 11/16/2022
Test Priority (Low, Medium, High): High	Test Executed by: Md. Atikur Rahman
Module Name: Medical Helpline	Test Execution date:

Test Title: Ask for medical help

Description: Test medical help responses from nearest medical centers

Precondition (If any): User must have valid account and valid location

Test Steps	Test Data	<b>Expected Results</b>	Actual Results	Status (Pass/Fail)
1. Go to the website				
2. Login Successfully	Valid location:     dddAC-67/90	User couldn't notify		
3. Click on medical helpline	• Can't notify nearest	centers and will not		
4. Click Select option	<ul><li>medical centers</li><li>No auto calls</li></ul>	get any responded call		
5. Choose option	• Can't contract with nearest medical	Can		
6. Click submit	centers			
7. Back				

Post Condition:		

Project Name: Urban area and social crime detection	Test Designed by: Md. Atikur Rahman
Test Case ID: FR_13_3	Test Designed date: 11/16/2022
Test Priority (Low, Medium, High): High	Test Executed by: Md. Atikur Rahman
Module Name: Medical Helpline	Test Execution date:

Test Title: Ask for medical help

Description: Test medical help responses from nearest medical centers

Precondition (If any): User must have valid account and valid location

Test Steps	Test Data	<b>Expected Results</b>	Actual Results	Status (Pass/Fail)
1. Go to the website				
2. Login Successfully	Back to the Previous Page: Click	The system should take		
3. Click on medical helpline	rage. Click	the user back to the		
4. Click Select option		home page from  Medical Helpline page		
5. Choose option		Wiedical Helphile page		
6. Click submit				
7. Back				
Post Condition:			<u>l</u>	

#### 14.Settings

Project Name: Urban Areas Crime Detection and Public Safety System	Test Designed by: Md. Aminul Islam
Test Case ID: FR_14_1	Test Designed date:11/16/22
Test Priority (Low, Medium, High): Medium	Test Executed by: Md. Aminul Islam
Module Name: Settings Session	Test Execution date: 11/16/22

Test Title: Verify the settings options

**Description: Test options in settings working perfectly** 

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the account settings	First name: Karim			
2. Change general information	Last name: dewan	System feature		
3. Change password	Old Password: Karim01	should work		
4.Change E-mail	New Password:	according to the		
5.Change Phone Number	KARIM012	user need		
6. Change Language				

7. Back To the Previous Page	Confirm		
	Password:		
	KARIM012		
	Change E-mail:		
	karim@gmail.com		
	Change Phone		
	Number:		
	01789****		
Post Condition:			

Project Name: Urban Areas Crime Detection and Public Safety System	Test Designed by: Md. Aminul Islam
Test Case ID: FR_14_2	Test Designed date:11/16/22
Test Priority (Low, Medium, High): Medium	Test Executed by: Md. Aminul Islam
Module Name: Settings Session	Test Execution date: 11/16/22

Test Title: Verify the settings options

Description: Test options in settings working perfectly

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the account settings	Firstname:Karim01  Lastname:dewan11	The system		
<ol> <li>Change general information</li> <li>Change password</li> <li>Change E-mail</li> </ol>	Old Password: Karim01<> New Password: KARIM012::	shouldn't change the information of the user in the system feature if the given information are		
5.Change Phone Number		invalid		

6. Change Language	Confirm Password:		
7. Back To the Previous	KARIM012::		
Page	Change E-mail: karim@gmail.\$com		
	Change Phone Number: 01789****		
Post Condition:			

<b>Project Name: Urban Areas Crime Detection and Public Safety System</b>	Test Designed by: Md. Aminul Islam
Test Case ID: FR_14_3	Test Designed date:11/16/22
Test Priority (Low, Medium, High): Medium	Test Executed by: Md. Aminul Islam
Module Name: Settings Session	Test Execution date: 11/16/22

**Test Title: Verify the settings options** 

**Description: Test options in settings working perfectly** 

Test Steps	Test Data	<b>Expected Results</b>	Actual Results	Status (Pass/Fail)
1. Go to the account settings	Back to the			
2. Change general information	Previous Page: Click	The system should take the user back		
3. Change password		to the home page from Settings		
4.Change E-mail		Session		
5.Change Phone Number				
6. Change Language				
7. Back To the Previous Page				

Post Condition:						

#### 15. Previous Crime Experience

Project Name: Urban Areas Crime Detection and Public Safety System	Test Designed by: Md. Aminul Islam
Test Case ID: FR_15_1	Test Designed date:11/16/2022
Test Priority (Low, Medium, High): High	Test Executed by: Md. Aminul Islam
Module Name: The Experience of previous Crime	Test Execution date:11/16/2022

**Test Title: Experience of previous Crime** 

**Description: Test Experience of previous Crime feature working perfectly** 

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website	Text: On April 21,			
2. Login into the System	2018, a female student of Uttara	Using the AI the		
3.Previous Crime Experience	University was sexually harassed by three workers of	system will approve the Experience		
4.Back to the previous page	Turag Paribahan			

Project Name: Urban Areas Crime Detection and Public Safety System	Test Designed by: Md. Aminul Islam	l
Test Case ID: FR_15_2	Test Designed date:11/16/2022	

Test Priority (Low, Medium, High): High	Test Executed by: Md. Aminul Islam
Module Name: The Experience of previous Crime	Test Execution date:11/16/2022

**Test Title: Experience of previous Crime** 

**Description: Test Experience of previous Crime feature working perfectly** 

Precondition (If any): User must have a valid account

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website	Text: ******			
2. Login into the System		If the Given Text		
	*****	by the user is		
3.Previous Crime Experience		violent/hateful		
4.Back to the previous page		and not relevant		
		then the system		
		shouldn't accept		
		the Experience		
		text.		

Project Name: Urban Areas Crime Detection and Public Safety System	Test Designed by: Md. Aminul Islam
Test Case ID: FR_15_3	Test Designed date:11/16/2022
Test Priority (Low, Medium, High): High	Test Executed by: Md. Aminul Islam
Module Name: The Experience of previous Crime	Test Execution date:11/16/2022

**Test Title: Experience of previous Crime** 

Description: Test Experience of previous Crime feature working perfectly

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website	Back to the			
<ul><li>2. Login into the System</li><li>3.Previous Crime Experience</li><li>4.Back to the previous page</li></ul>	Previous Page: Click	The system should take the user back to the home page from <b>The</b>		
4. Dack to the previous page		Experience of previous Crime page		
Post Condition:				

1

#### Lab- Task-4 (Part-A)

\* Codes of Line = 6000

Organic Project

Ellot = PM = Coefficient / Effort Factory \* (5LOC/1000)^P

Coefficient / Effort factory = 2.4

P = 1.05

T = 0.38

PM = 2.4 \* (6000/1000)^1.05

= 15.75

Development Home = DIM = 2.50 \* (PM)^T

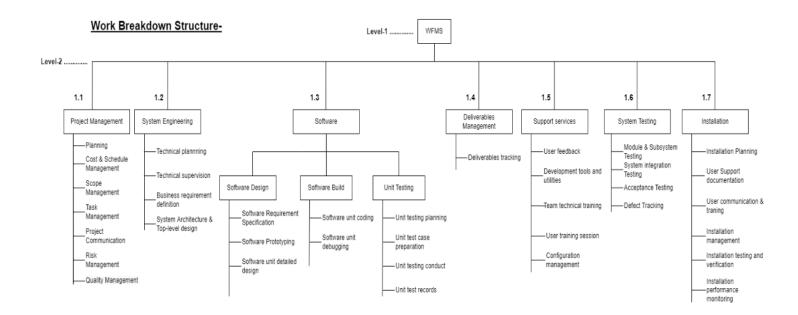
2.50 \* (15.75)^0.38

Development time is more than 7 days

Required Number of people 5T = PM

= 15.75

#### Final Lab Task 5



#### Final Lab Task 6

#### **Project Scheduling**

Our project has 36 planned work tasks that are estimated to require (28\*22) 616person-days to complete.

BAC = 616.00

	Planned	Actual Effort
Task	Effort	
1	3	4
2	5	5.5
3	4	3.5
4	3	3
5	3	3.5
6	5	4.5
7	3	3
8	5	5
9	5	6
10	3	3
11	6	
12	15	
13	10	
14	11	

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Total Task=36.
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BCWP=39

BCWS=81

ACWP=41

BAC = 616.00

SPI = BCWP/ BCWS = 39/81= 0.48148

SV = BCWP - BCWS = 39 - 81 = -42 person-day

CPI = BCWP / ACWP = 0.95

CV = BCWP - ACWP = -2 person-day

% schedule for completion = BCWS/ BAC = 81/616.00

= 13.15% [% of work scheduled to be done at this time]

% complete = BCWP/ BAC = 39/ 616.00

= 6.33% [% of work completed at this time]

#### Risk Analysis

Risks	Category	Probability	Impact	RMMM
Size estimate may be significantly low	PS	60%	2	
Larger number of users than planned	PS	30%	3	
Less reuse than planned	PS	70%	2	
End-users resist system	BU	40%	3	
Delivery deadline will be tightened	BU	50%	2	
Funding will be lost	CU	40%	1	
Customer will change requirements	PS	50%	2	
Technology will not meet expectations	TE	50%	1	
Lack of training on tools	DE	80%	3	
Staff inexperienced	ST	30%	2	
Staff turnover will be high	ST	60%	2	
*Lack of management problem	ST	10%	3	
*Lack of commitment and technological leadership	ST	40%	3	
*Real time performance problems	DE	20%	2	
*Resources not ready on time	DE	10%	2	

#### Impact values

- ➤ Catastrophic 1➤ Critical 2

- ➤ Marginal 3➤ Negligible 4