

DAFFODIL INTERNATIONAL UNIVERSITY

SOFTWARE ENGINEERING DESIGN CAPSTONE PROJECT

Submitted By:

MD.SAZZAD HOSSAIN
ID:181-35-283
PC:A

Submitted To:

RAJIB MITRA
LECTURAR
DAFFODIL INTERNATIONAL UNIVERSITY

1 Project Overview

The project highlights the results of a danger situation immediately when a person get in a situation of harrasment. One of the goals of this project is to get the situation viral on a platform and any people in a particular division can view either they are people or law enforcement people. If the situation need overcome by this process, the victim can save their live, and the people will have a freedom and a crime free generation.

1.1 Project Purpose

The main goal of this project is to viral the situation by anyone or the victim and overcome by any people or law enforcement service. For this process, people will get a reliable help progress for viral the situation and someone who can admit into it.

1.2 Background

The background for this project will give a viral news so that any people or the police can know on that location has been compromise. Someone need help on that place and any person can help on that for give proper solution in that exact location.

2 Benfits and Beneficieries

The benfits will provide both the victim,the law enformance and the govt in bangladesh. People can save their situation and govt canimprove the law and have a clear image on victim. For this a yearly survey can also help to improve. The primary focus is to ensure as fast as viral the help and help the prople in any area.

3 Goals

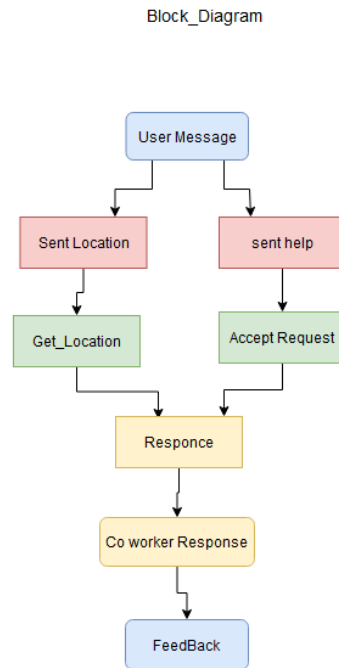
This project will improve the citizen with the real time extra advantages for proper solution keeping the report they request for viral. It will have the nearby solution as much as possible. we can see the emergency sos system can only track the police, but in this system a specific nearby and the law enforcement both can help to track the problem and save as much as possible of their lives.

4 Stakeholders

The stakeholders in this project is the people who are connected to the politics, govt employee and other business person and the goverment.

Project Team members law enforcement local police local people can help to build the stackeholder because it can help to build the system for the people who can use and have help themselves. They can also help the project summary and have the clear version wiht programer and the developer.

5 Proposed System Model(Block Diagram)



6 Project Schedule

First, I have to implement the idea about how actually people get into trouble. Then need a specific place where they can be connected by a large area of agent who actually can help. Time is very important for solving a problem in a specific area. So, Govt. service holder can review actually what happens and how to solve it. The whole system needs to monitorize for ensuring security for the people.

6.1 Gantt Chart

Gantt Chart have to divided by 4 section. Project , Research Planning

Gantt_Chart

Planning	Octorbor26			
Research		November 05		
Design			November 18	
Implement				December 26

and Implement

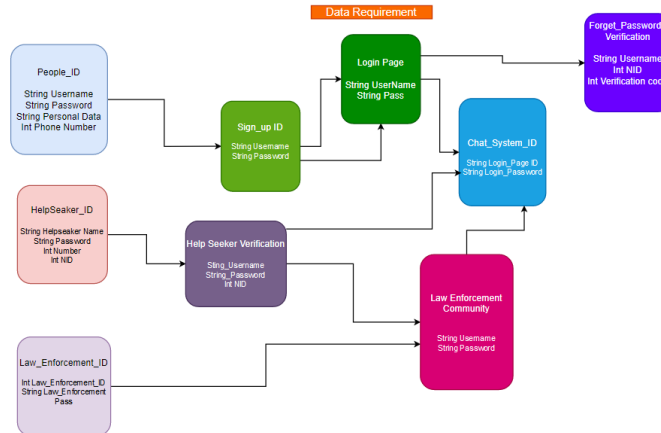
6.2 Release Plan/Milestone

The Plan is mainly for viral any situation in a platform where people can see that and give help or speard news for safety and for the situation. This idea can help the people for awareness at anywhere. This idea can developed a system where any specific area problem can identify by govt services and also people who actually need emergency help by viral the situation.

7 Functional Requirements

Functional Requirement				
Requirement	Functional/Non-Functional Category	Description	Priority	Success criteria
1.FR001:Site Visit	Functional	The Site will show how the process works	Very High	The site with show the login,signup and other
2.FR002:SignUP	Functional	The chat system needs to require signup	Very High	Signup page show
3.FR003:Login	Functional	Login page for chat system	Very High	Login page will show chat help
4.FR004:Chat System	Functional	Chat system will show the main concept	Very High	Chat system for whistleblower
5.FR005:Helpseaker SignUp	Non-Functional	HelpSeaker page for help anywhere by police auth	Middle	Helpseaker signup page
6.FR006:Forget Login	Functional	Forget page will help to giveaway the account	Very High	Forget page show
7.FR007:Police Verification	Functional	Police verification for the Helpseaker	Very High	Police Verificaton by law enforcement

8 Data Requirements



9 Performance Requirements

9.1 Speed and Latency Requirement

When we use game or use satellite internet, latency can have a big impact on your online experience. In Whistleblower the main page use dynamic programing for get into the chat system. The chat system is the main concept for the idea to help the local people for solving or saving people. So, the system is mainly need real time chat system for this environment. So, we have to use minimum speed and ping for sending and receving data for the exect location. In a chat platform.120-140ms is optimal for active status. Sending photos and vedios with needs minimum bandwidth which in this system is need some sending bandwidth speed. As a chat system, the medium speed needs to requir for this environment

9.2 Precision or Accuracy Requirements

In our country a platform like open chat system is new idea for emergency and accuracy which can help to improve less crime in almost everywhere. This platform require a simple easy accuracy for any people for sending text or location for help and the complexity of this system is much faster for the server.

9.3 Capacity Requirements

Capacity requirement meets the full capacity of the system. This platform meets the full requirements for emergency help with the people. The server gives proper response because the backend development. The frontend platform is also very fast

10 Dependability Requirements

10.1 Reliability Requirements

The Whistleblower system gives a real time solution in a open chat system which can monitored by the law enforcement agency which can solve and give a proper solution by given access. This system is robustly help the local people if they have face a problem by bad kind of people. And in emergency they can share their locaiton and ask for helpseaker. The helpseaker also can help them by verify theirselves in law enforcement. So in reality this can be a future solution for vital news and solution. The testing can improve the reliability requirement like subdomain, auth, cross-site for the system. The more test in the system, the better solution for the platform.

10.2 Availability Requirements

The availability in this system is very independent. Every people can use this system as their life saving or any problem solution. This platform is based on division wise traking location for viral situation or any other problems that we face in our daily life. People can use the whistleblower page for give some information which can monitor by law enforcement, helpseaker and any other people in the viral area. They can also ask in the chat platform if they want some valuable information and someone can help as a helpseaker

10.3 Robustness or Fault-Tolerance Requirements

This system helps to resist the problem that people facing in the street or any place which we can see in those days in both men and women. So , in this emergency situation vital solution needs to concern at any location. Now, suppose a women gets harrash in public place. Someone see that and post in whistleblower page.Their will be no fault tolerance for viral the system cause law enforcement always monitor the problem for finding the solution. And it any fault problem post, then punishment will be require with the nid profile.So less tolerance can not be ensure in this system.

10.4 Safety-Critical Requirements

This platform is more safety for local people because their will be no platform abusement for the law enforcement and helpseaker. The police can also help in this problems. So safety critical requirement are less in whistleblower chat system.In this system almost every women gets in problem in many place. So helpseaker can asked for help by giving their identity for ensuring the need for help.Safety is more important at any place in our country. Chances for solution is widely in this system. Critical situaltion of this platform are most reliable for the people of our county.

11 Maintainability and Supportability Requirements

Maintanance requirement

Maintainability is the valuable plan for a system. In this project maintain is the most important thing for covering the situation. Because In a system like open chat system and monitor by law enforcement agents, their will a chance to get hack or system loss by social engineering. So, the testing needs to be performed in a sequence way so that can not be hacked by the others.

Supportability requirement

Supportability need to require for a system. In this platform law enforcement agent can a hugh amount for supporting the system.They can track anyone if their is any problem. Law enforcement support can help for data analyst also.In every year submitted problem, disclose and other critical problem might be survey for support and control over by this process.

Adaptability Requirements

The adaptability requiremt need to focus on mission-driven planning for the system. Component based system so that it can be implement when it need to update. This adaptibility can be focus on code requirement where developer can help to upgrade and build the system. In this term coding implementation is important for future.

Scalability or Extensibility Requirements

For scalability or extension we can use this system into other platform or mobile operator services. This can be more efficient if people use the cell emergency services for the emergency help. And another thing that people need this system into more feasible like one tap help or location sending message.

12 Security Requirements

Access Requirements

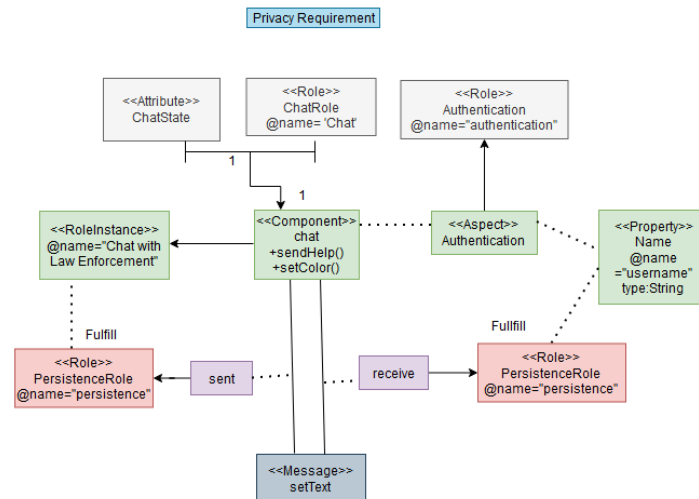
For every system, data is important for everyone. So access must be secure with a sequence security assurance for the environment. Each access needs to require with cryptography for storing or accessing the platform. weather it is require for the local people , but their will be focused on law agencies so that they can serve the services to the local people . Accessing local's data for helping is nessessary for this system. So it will be a security process for the platform.

Integrity Requirements

In data integrity requirement, there will three key attributes: Completeness, accuracy and consistency. A good database will enforce data integrity whenever possible. If the system enforces data integrity, it will prevent the user from making these mistakes. So, we need to

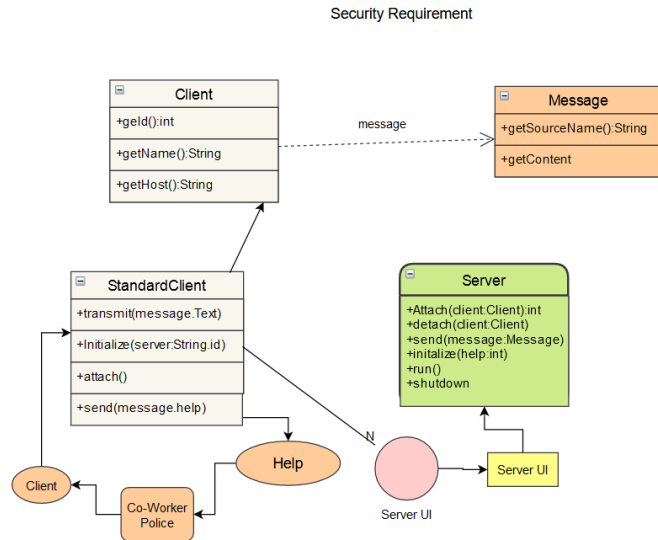
Privacy Requirements

the privacy requirement must substantiate this system's compliance with security fundamental privacy. The fastest way to private and secure in open platform is to secure and implement section wise lookup and extra security for the law enforcement services. Component - based represents a significant advance towards system by plugging independent and reusable components. So , it makes proper security



system.

13 Security Requirements



- 13.1 It security requirement people need to sent help request in a secure way so that the person don't know the alert and can capture by the law enforcement agent , police or co-worker.the goad in security requirement is to keep on the request in track as much as possible

Ease of Use Requirements

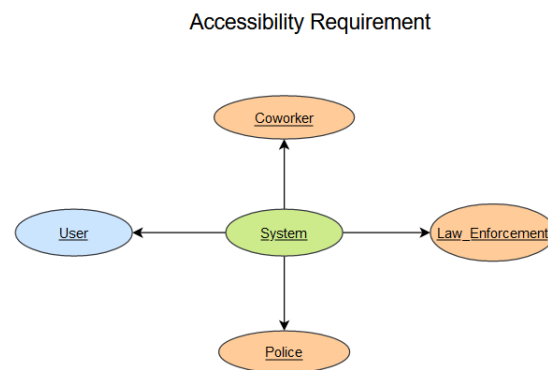
- 13.2 Ease of use requirements need user interface must be familiar to user and need to follow a single set of rules for the user and the co-worker so that they can easily found by the UI and law enforcement can track them into a secure system.

Personalization and Internationalization Requirements

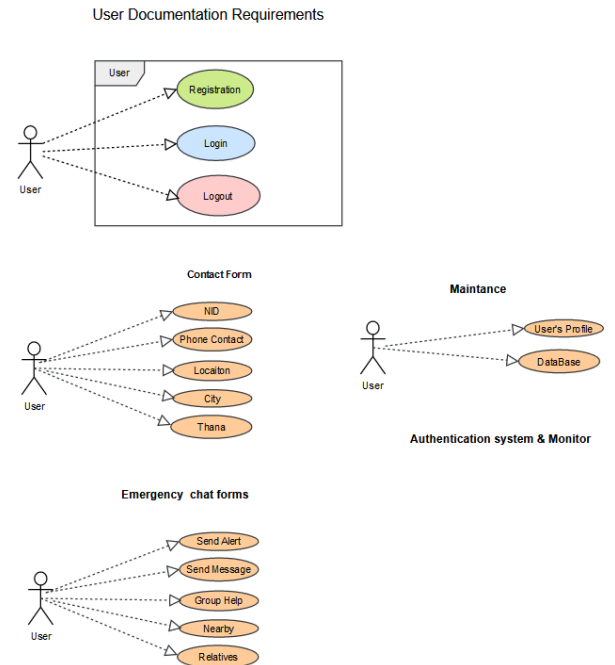
13.3 It can entails customization related to open source emergency helpline chat system or other system that require people's security so that localization and other different country people can also take the advantages of it.

Understandability and Politeness Requirements

The understandability of this system is easy and more politeness for the user and the co worker. It use the minimal possibility when the user need help at any place and any where the given location is shared the co worker can notify this.This can made more politeness for the environment



Accessibility Requirements



User Documentation Requirements

Training Requirements

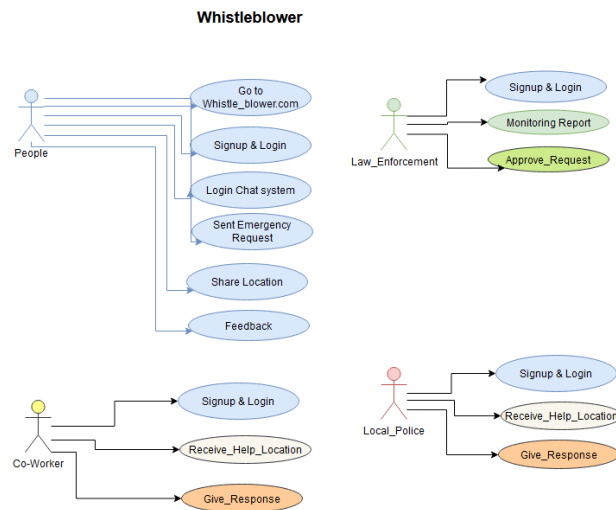
The training requirement should be be for the development side and also for the police and co-worker because all are inter connected to the law enforcement and they will always monitoring their server and users. So, the best way is to train both developer and the co-worker who can help themselves and the maintaining the system.

14 Operational and Environmental Requirements

The operational and environmental requirement must need to clear the concept of the database , project scheduling and other more security requirement so that the data can be secure and traceble to track the location.

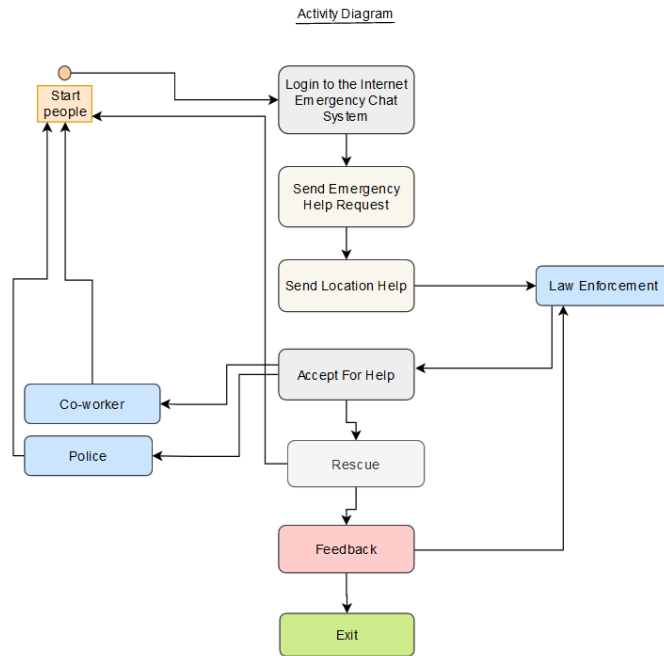
15 SYSTEM ANALYSIS

16 Use Case Diagram

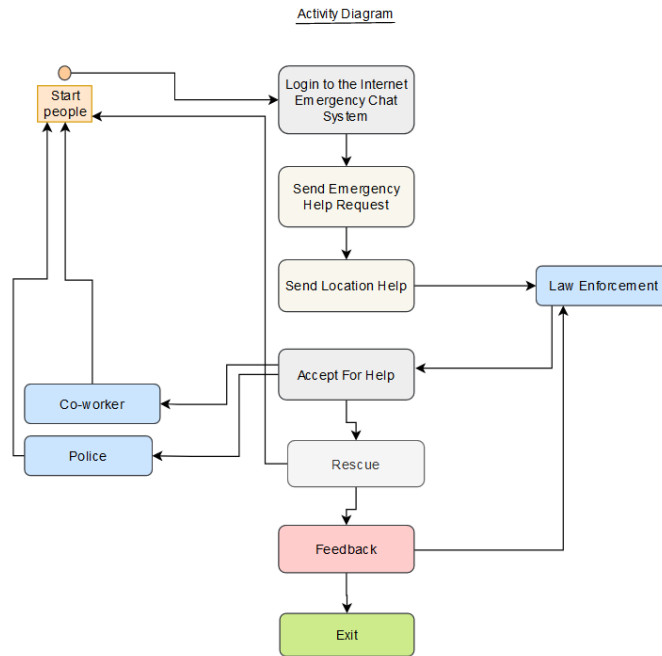


Use Case Description

17 Activity Diagram



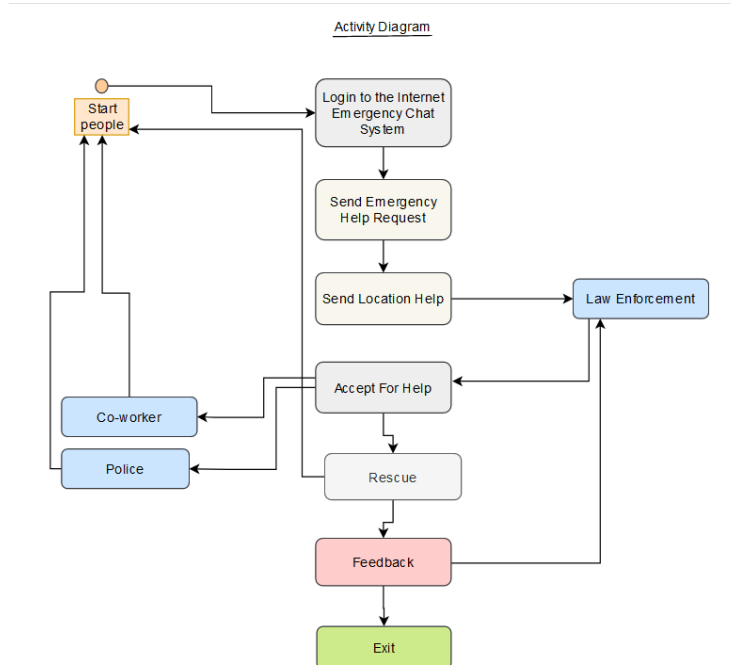
18 System Sequence Diagram



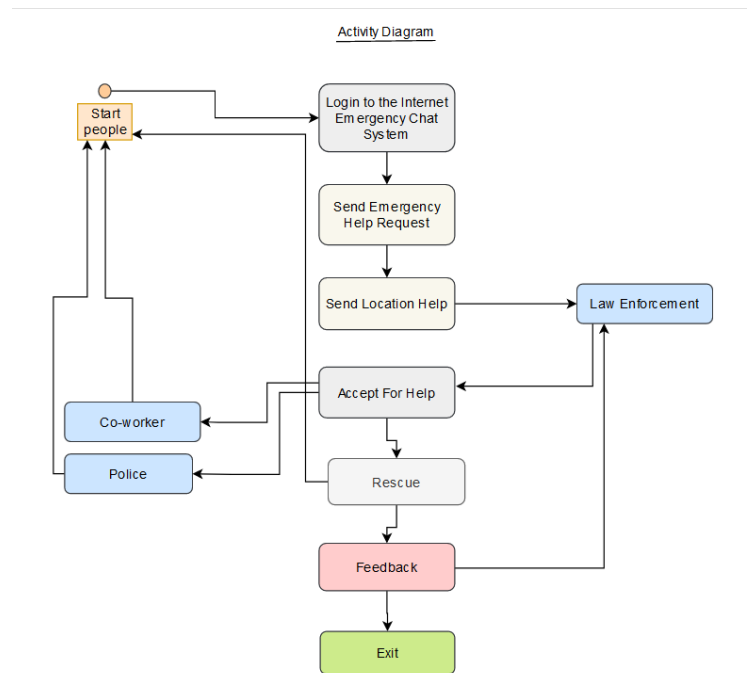
19 System Design Specification

Responsibilities Collaboration (CRC) Cards

Sequence Diagram



Class Diagram



Database Design Diagram

Development Tools and Technology

The development tools for this system can be use the framework is node and reactjs tostify and other library

19.1 User Interface Technology

User Interface is web based and can run any browser smothly.

20 USER MANUAL

type A user

The A type user is the local customer who can use the system for their safety.

type B user

The B type user is the Co worker and the police who can track the request and sent the help for connect the user.

type C user

The c user is the law enforcement who can manage all the system and get connection wiht user and co worker.

21 PROJECT SUMMARY

The project is a milestone for the people of this country . We faced a lot of problems where people facing their problem everyday life. If we can solution with proper way by everyone. Then the govt can upgrade the working process and we can be more strong then other country and can grow a economical place.Hence their a possibility of every solution that makes

Critical Evolution

The solution can be given by the person who is connected to the database or the local user. Someone need special help and they need in critical situation. So , this service is about critical emergency moment for the session of our country

Limitations

In every system their's still limitations , In this environment some limitation can be faced like network need to connect in phone.So the phone needs to connected to the platform. In high emergency situation, viral moment need capture at any time. If it can not capture ,the evidence can not be post to the right moment.

Future Scope

The Future scope is a chance to decrease harrasement and violation , specially Eve teasing and road haressment . And with full evidence people and govt can see the real problem and give a solution for the problem . Hence , it may be a right term for the future scope.