CRIME REPORTING INTEGRATION OF CRIME & COMPLAINT REPORTING AND EFFECTIVE DATA SHARING WITH MULTI USER ACCESS

N. Infanta Amirtha Mary*, J.Dharshini*, Mrs.A.Sivasangari
Student, Faculty of Computing, Sathyabama University-Chennai, Tamil Nadu, India.
Assistant Professor, Faculty of Computing, Sathyabama University-Chennai, India.
Email: infanta.nithyan@gmail.com

Received on 29-04-2016
Accepted on 24-05-2016

Abstract

The high rate of unreported crimes could affect the society in decision making and due to this situation, half of the crimes are not reported. In the proposed system, users can register to this application and can give the detailed report of crimes that happened. The report is divided into two parts 1.Full crime report 2.Emergency report. Full crime report is where detail of the crime can be enclosed. Emergency report is where user details are one and only necessary information that are provided. In the modification part, there will be three logins 1.User 2.Police 3.Admin. User can give the crime report along with the initiation of current GPS or can give location details manually with crime details, date are sent to the server. Actions taken by police can be viewed by the admin and user. User can also transfer their files from the android to the remote server, which is split into several blocks and can be retrieved whenever it is required.

Keywords: Crime reporting, Location tracking-GPS, Android.

Introduction

This project is all about, online crime registration for public and to view the system of crime report based on location. Nowadays, mobile phone usage has become inevitable but still there is no achievement of mobiles in crime department. A relevance initiation of current GPS will provide location details manually like sort, date, and time & evidences. Admin will read the standing of action taken. Server registers a grievance as long as quite two folks report constant event to the server.

User can even report general grievance. Many crimes go unreported due to the insecure privacy issues. Usage of mobile app is the best security platform for complaining the crime. And the other main thing is time consumption, by using this crime reporting app we save time rather than stepping into the police station for filing a complaint. This
crime reporting application with good interface allows user to fill crime report. This beneficial application serves user to send a complaint quickly in all sorts of situations.

**Related work**

This section explains some of the works of other authors related to reporting of crime. In [3], an android application for crime reporting is created and installed in a mobile device. This application works with the help of in-built GPS in mobile phones. The longitude and latitude values the exact location can be found using Google maps. This app is used effectively by Namibian police.

In [1], a method is proposed for community based crime reporting (CBCR). The authors claimed to develop an application for a particular community which was quite challenging and it failed finally.

In [6], a model is proposed that allows the user to file a complaint for the purpose to reduce the growing number of unreported crimes. Besides, there are Android apps available in the Google Play Store like, Crime Push, Cry Help etc. that serves users with Google Map interface. However most of these apps are power hungry as these apps access the current location through GPS or monitors behaviour to check for anomaly. They provide simple, safe and fast service. In [9], this app is supported by the South African Police which can pass information through a quick SMS when sent to a toll number.

**Existing system**

In the existing system, this high rate of unreported crimes could affect the society in decision making and law and roughly due to this situation half of the crimes are not reported. The limitations are less security because privacy issues may occur and one may not feel comfortable to report the crime. Since there is no security feature, many crimes go unreported. Report status will not be updated soon and lot of time will be taken .Because of these reasons, the system is highly unreliable.

**Proposed system**

In the proposed system, users can register to this application and can give the report of crimes that happened. The report is divided into two options, 1.Full crime report where detail of the crime is registered. 2. Emergency report where user details are the only necessary information that are provided. In the Modification part, there will be three main login, 1.User 2.Police 3.Admin. User can give the crime report along with the initiation of current GPS or can give location details manually with crime type, date, and time which are provided to the server. Admin can view the status of actions taken. Server registers a complaint only if two people report the same event to the server.
The advantages are

- Less power consumption
- Less time consumption
- Reliable
- High security

Architecture

![Architecture Diagram](image)

**Figure 1:** Architecture diagram.

**Material and Method**

**Modules**

- Android Registration
- Service Provider
- Crime Reporting and Status Monitoring
- Automatic GPS Tracking
- File Sharing and retrieval

**Android Registration**

Develop an android application. We cannot store lot of data in a mobile due to limited memory. So, there is no space to store new files. Also we cannot delete the old files. However, loss is there. Mobile Client is an android application which is installed in the user’s android mobile. So that we can perform the activity. The application’s first page consists of the user registration process.
We’ll create the user login page by button and text field class. We have to design the page by dragging the tools like buttons and fields. Once we completed the design of the page we have to write the codes for each. The full mobile application is generated as Android Platform Kit (APK) file. This APK file is established in the user’s mobile as an application.

The profile registry is primarily intended to host profiles which are based on registered conditions and characterization data sets. So the registration for the police and user can have own login to view the information upload for the respective designation.

![Figure 2: Registration of the user.](image1)

![Figure 3: Login Page.](image2)
Service Provider

Service provider will contain the large data in data storage. Also the provider will maintain the all information to authenticate user when they are login into their account. The user information will be stored in the database of the cloud service provider. Also the cloud server will redirect the user requested job to the assigning module to execute the requested job. The request of all the users will process by the resource allocating module. To share with the client and with the other modules of the cloud network, the cloud server will make connections. For this reason, we are going to create an user interface frame. Also the service provider will send the request to the resource assign module in First In First Out (FIFO) manner.

Figure 3: General features.

Figure 4: Options for the input of crime.
Crime Reporting and Status Monitoring

In this module, we develop a crime reporting page and status monitoring, in this user manually enter the crime reports about their crime by giving the some personal information like name, email, mobile number, other notifications and after a days they can able monitor the status where the report have accepted or not.

Users can view the status of the given report or complaint. Police can view and update the action taken like pending, arrested, enquiry etc. Status updated by police is viewed by the users too.

![Figure 5: Crime Reporting.](image1)

![Figure 6: Complaint Status Checking.](image2)
Automatic GPS Tracking

In this module, we realize the current position (automatic and manual) entered.

In automatic, we will be able to see the latitude and line of longitude of crime location by Google map API V2.GPS. Then the crime report with the crime location is delivered to the police. We can also enter the location manually. It updates each movement of criminal location and sends the location to the police.

![Crime Report](image)

Figure 7: GPS based location tracking.

File sharing and retrieval

In this file sharing process we can able to share the file by using FTP protocol, and we use android application to share the file, and important that the file are not shared bulkily.

They have been chunked and stored in the different server by using index value of each part of file.

Result and Discussion

As a result, effective crime reporting platform is created with high security, less time consumption and information provided are reliable. Automatic GPS triggering and tracking improves the quick submission of crime report.

Conclusion

In this paper, we already stated about the need for crime reporting technology therefore we proposed an application for the complaint and crime report.

In future, the performance of this app will be increased and improved in the photo, video, snapshot insertion. And not only police department, this app can also serve other departments like water, EB, etc if improvised.
Acknowledgment

The satisfaction and elation that accompany the successful completion of any task would be incomplete without the mention of the people who have made it a possibility. It is my great privilege to express my gratitude and respect to all those who have guided me and inspired me during the course of the project work.

First and foremost, we would express our sincere gratitude to our beloved Chancellor COL. Dr. JEPPIAAR, MA, B.L., Ph.D and also thanks to our Director Dr. MARIE JOHNSON, BE, M.B.A, M.Phil, Ph.D and Dr. MARIAZEENA JOHNSON, B.E, M.B.A, M.Phil, Ph.D, for providing me the necessary facilities for the completion of my project. We also thank our Vice-Chancellor Dr. B. Sheela Rani, M.S, Ph.D for her constant support and endorsement. We also take privilege to thank controller of examinations Dr. K.V. Narayanan, Ph.D. We would like to express our gratitude to Dr. Vijay Bhaskar, M.E, Ph.D Head of the Department of computing, Sathyabama University for having been a constant source of support and encouragement for the completion of the project. We would also like to express our sincere thanks to my internal guide of the project Mrs. A. Sivasangari, M.Tech, for his constant support, guidance, and supervision during the period of my project. Finally we express our sincere and heartfelt thanks to my parents and friends for their help and encouragement for the completion of our project.

Reference


8. www.citysourced.com

9. www.crimeline.co.za

10. www.crimepush.com

Corresponding Author:
N. Infanta Amirtha Mary*,
Email: infanta.nithyan@gmail.com