

**ONLINE CRIME REPORTING ANDROID BASED SYSTEM”**¹Diksha Gawade, ²Tanvi Raut, ³Suyog Waghmare, ⁴Vrushabh Bhuwad¹Computer, Rajiv Gandhi Institute of Technology²Computer, Rajiv Gandhi Institute of Technology³Computer, Rajiv Gandhi Institute of Technology⁴Computer, Rajiv Gandhi Institute of Technology

Abstract — the purpose of this research paper is to propose and develop an android mobile application for the general public awareness of the crime situation of their area and to provide them crime locations on the map. This application will also help general public to report a crime to law enforcement agency. This android mobile application will help public to see the locations on map which will help them to track the current situation of their surroundings. Some part of these android mobile applications is being developed in University with sample databases. In this research we will suggest some methods for future recommendations that how law enforcement agencies can avoid fake reports which are reported from mobile. This makes crime investigation a more complicated process. Thus the police officers have to perform a lot of manual tasks to get a thread for investigation. This paper deals with the study of data mining based systems for analyzing crime information and thus automates the crime investigation procedure of the police officers. The majority of these frameworks utilize a blend of data mining methods such as clustering and classification for the effective investigation of the criminal acts. General public awareness of the crime situation of their area and to provide them crime locations on the map. This application will also help general public to report a crime to law enforcement agency.

Keywords- Crime Reporting, Android Application, location tracking, FIR Reports, Police Department.

I. INTRODUCTION

The objective of the project is to develop a site in which any citizen can report crimes. If anybody wants to complaint against crimes he must do it through the police. The Crime Management and Reporting System make the crime reporting easier. This project will be useful for the Police Department. The home page is the log in page .Only the Administrator and the Station in-charge of different Police Stations will be able to login to their home pages. The citizen could only report crime sand knows whether the crime reported by him has been accepted. The different modules of the project are station module, crime module, administrator's module and search module. In the station module, each of the station must first register with the Software. For the registration part each station enter their details like station name, address, phone no, station in charge etc. and get a User Id and password from the Software. Once the station registers with the software they can avail the existing records. Crime module is used for entering all details about the crime. It contains the date and time, police station where it is recorded, place, nature of Crime, Location of the Crime etc. All details about the criminals will be also included in this module.

In the search module we can search the crime in station wise, nature of crime, date and time wise. Searching of criminals is also possible in this module. The administrator's module will be pro tested by user id and password. Ordinary users of the software will not be permitted to enter into this area of the software. The module will be focusing on the Master Data Maintenance, Removal of old and outdated data from the software etc. System analysis is an important phase of any system development process. The system is studied to the minute details and analyzed. The system analyst plays the role of an interrogator and dwells deep in to the working of the present system. In analysis, a detailed study of these operations performed by a system and their relationships within and outside the system is done. A key question considered here is, what must be done to solve the problem? The system is viewed as a whole and the inputs to the system are identified.

II. MOTIVATION AND PROBLEM STATEMENT

Crime due to fear of privacy violations is an ongoing concern in technology resource constrained environments. In a recent report from the South African Institute of Race Relations roughly half of all crimes are never reported to the police. This high rate of unreported crimes could affect the society in decision making and law enforcement agencies in allocation of resources. As a result, there is a need for a crime reporting platform that guarantees anonymity and security. Crime reporting and the likelihood of an individual making a report are not as simple as filling a form as researched in.

It has been found that the digitizing of the reporting process not only improves the likelihood of individuals to make crime reports but can also yield more comprehensive and meaningful reports. It is perceived that the use of mobile devices provides a good security platform for crime report. As a result, there is a need for a mobile application that can facilitate crime reporting in a secured and covert way.

2.1 Problem Statement

Public need awareness of their neighborhoods. Everyone cares for the lives of children and their beloved ones so they should be aware of the current situations in the area. This research aims towards common people or public to help them in their lives by notifying them the current situation of their neighborhoods. General Public and law enforcement agencies may use these kind of applications in many ways to keep the community aware of the current situations and to help them to live together by communicating and sharing information with each other.

III. PROJECT METHODOLOGY

1. Police Application

In this module the police official needs to create a new user name account and after successful creation of user account they can enter user- name and password, enter the application. This application is not publicly available for the general users it is only for police officials. After logging into the application, it provides different services like reporting incidents (crimes and incidents causing traffic jam), can view incidents reported by the other or same user, can enter criminal database on the server using this application. Incidents reported by the user need to be verified by the police officials if it is correct, then database will be updated and the notification will be broadcasted to all the users using the android application. If police find crime reported by the user is awry then police can take appropriate action against the user. Police will be given privilege to do the criminal database modifications.

2. General User Application

This module is for mainly general public. Initially, the users will need to do one time registration before using the application. In the registration phase user need to provide its personal detail like name, address, UID-number (a valid UID will be accepted), phone-no, create password etc. After registration phase user need to login where user need to enter its valid registered email-id and valid password. After login user is provided with the facilities like report live crime incidents, view emergency numbers, view different areas where different types of crime has occurred like murder, rape, chain snatching etc., SOS. User will be able to see criminal areas using Google map. On this map a pop sign will be displayed for different types of crime

3. Log in

There is the main Admin who is in-charge of the whole area, gives Login and Password to each Police Station's Admin. Station's Admin can see the crime data of the area of whose he is in in-charge of main admin can view data of each Station's Admin.

4. Verify Posted Crimes:

Admin verifies the crimes posted by the user by calling local patrolling team. If the details are true, he adds/imports the records in the database.

5. Search Crime:

The User will search the desired location for which user wants to see the crime data. User can even search the crime by its type like robbery, murder, homicide etc.. The user will be able to see the data through markers on the map. The sector of that location which will have highest rate of crimes will be shown in red color on the map, lowest with yellow color and which has medium rate will be shown in pink color. User can also see the data through numbers on the side of map.

6. Post Live Crime:

User can post the recently happened live crime status by filling details of the crime. These details will first go to the admin side. Admin then will verify these details with the help of nearby police outcast of that location. After verifying that the details are correct, admin then will update the database and user can see that details of crime as well.

7. Logout:

At the end, users can simply logout just by clicking logout button provided on the page.

IV. CONCLUSION & FUTURE SCOPE

Scope of further development the various Future Enhancement which shall include in this software are: _We look forward to working with the Government in implementing the recommendations and seeing an improvement in the effectiveness of the Police Department. _ the method of video conferencing can be added to make the project livelier. _ An intercom facility will add a little more flexible communication between the Administrator, Station in-charge and investigation team members. _ not with standing this drive and progress, the Panel believes that more fundamental changes are needed. It hopes that the recommendation made in this report will assist in changing the culture around partnership.

CONCLUSION

Nothing can be ended in a single step. It is the fact that nothing is permanent in this world. So this project also has some future enhancements in the evergreen and booming IT industry. Change is inevitable. The project entitled Crime Management and Reporting System was successfully designed developed and tested. The system and the architecture is a compatible one, so addition of new module scan be done without much difficulty. Since this module has its unique properties it can extend further to make this system a complete one.

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