Public Crime Reporting and Monitoring System

Dr. P. Chitra¹, M. Jayabharathi², M. Lakshmi Priya³, S. Yogalakshmi⁴
Department of Information Technology
Prathyusha Engineering College, India

Abstract:
In our country more than 2,50,000 crimes are happening per year but only 40% of them are getting filed because most of the people will hesitate to go to the police station to register a complaint. So, this system proposes an application which helps the users to register complaints against various categories of criminal activities like robbery, woman abuse, missing person and other illegal activities. Here respective police officers have to register their details based on their specific location. The user also has to register with the application. So whenever the user sign-in into the application they can file any new complaints happened in their locality. The complaints will be redirected to respective area police station, based on the given location. Here user has a facility to capture an evidence in image or video format. An SMS alert will be sent to the respective police station. It also provides the information of missing persons. By this system the violence rate will be reduced and increases the public safety.

I. INTRODUCTION:

Now a days in every field digital transformation is done. But raising the complaints in the police station by the people is still handwritten. So we are going to propose one crime application which helps to users to raise the complaints against to the criminals when they have any evidence like photos or videos. For this here we are going to use cloud technology to do this. In this all police officers will register their details based on their locations. The complaints will go to based on location. If a user raises a complaint in one area the complaints will go to that particular area based on Geo Location. Here user can have a facility to capture a evidence in image or video format. After that per each complaint police will generate one unique complaint id to the users. After this everything will be proceeded through online only. After generating an id particular police officer files fir based on user complaints. After that they will investigate the criminals & interrogate about the criminals at last they will find and inform to the public who raised a complaint. Each & every process will be updated to the people time by time.

II. LITERATURE SURVEY

EXPLANATION:

Aanchal dabhere and Aniruddha Kulkarni [1] has designed for mobile application infrastructure is to help the police and general public fight against the crime with in a metropolis. This infrastructure serves as a common platform for both the police and general public. Description of the people, who is in the wanted list of the police and their related crime information about the latest arrest made by police. Mohammed Zaid Khatri and Shamsuddin Altamash Shaikh[2]This application contained the details about the wanted criminals as well as missing persons. The user can report a crime to the police by just clicking a photograph of the criminal activity. Dr. Sridhar Mandapati and Sravya Pamidi [3]This application indicated the state of a women who is in danger by just giving a phone call, they can track the location of the women who is in danger. Richard William Adderley and Peter Musgrove [4]This paper provided on overview of the computer software within police force with a particular attention to the crime analysis and investigation. Particular attention is implemented by using artificial intelligence techniques by tracking the volume of the crime burglary, it consists of the high profile crime activities such as murder, armed robbery and non-dated rape. Mwangala Mwiya, Jackson Phiri and Gift Lyoko[5]The reported crime incidentis viewed by the police directly, they can assign and analyze crime incidents and the trends. Residents also experience a lot of challenges to report a crime because of the long distance to the police station and the fact that they don’t know the phone number of the police station. Syed mujitaba raza and leelavathi rajamanickam [6] this android mobile application helps the police to track the current situation of their surroundings. Most of the mobile users use smart phone to know the health guides, alert news and many more application in the daily life routine. So, therefore a mobile application can be developed to show the location of the crime and to report the crime. Pragathi, srilekha and yaminei[7] It is a women safety detection system using the GPS and GSM modems. It is interconnected with the alarm system and alert the neighbors. The GPS receiver gets the location information from the satellites in the form of latitude and longitude. Jan b.elnas, eldrin c.duran james and leo e. mayol [8] This system uses the google maps to present the crime information accessible through the browser. By this, the people can report crimes using the location pointed on the map before providing the detailed information. It enables an automatic method for display the information on the map which helps to identify the location. Harshitha, darshitha p Shetty and shesna giri [9] this application helps the user to track the report filed and takes an advantage of reporting any complaint from anywhereby bringing the whole system online this helps the public to see the location on the map and help them to track the current situation of their surroundings. Mwangala mwiya and Jackson phiri [10] In this one major problem is hindering crime detection and reporting is due to the lack of efficient communication between the police and the general public.
The architecture diagram explain that the user wants to create the login page to register complaint through the android phone with the access of internet. The complaint will be sent through the smsc gateway to the police station, after registering the complaints the alert message will be send to the police. Then they will start investigating the crime by tracking the location by the use of gps.

**TECHNOLOGY STACK:**
- J2EE(JSP, servlets)
- Javascript, HTML, CSS, bootstrap, JQuery

**MODULES:**
- Public And Police account creation
- Public complaint Registration
- Uploading Evidence
- Complaint status
- Filing FIR and searching criminals by tracking location

**MODULE EXPLANATION:**

**Public and police account creation**
The user and police want to create an account in the application with their personal detail
- USERNAME / POLICENAME
- E-MAIL
- PASSWORD
- CONFIRM PASSWORD
- MOBILE NUMBER
- ADDRESS

**Public Complaint Registration and Uploading evidence**
The public can register any crime related issues like murders, women harassments, kidnaps and robbery etc.they can raise a complaint based on online complaints form. If user has evidence like images or photos they can attach it into a complaint form. After this the complaints goes to particular area of police station based on user location. If not, user can give the location manually. Then police will receive the complaints based on his station location.

**Complaint Status**
Police will see the complaint along with evidence & accept the complaint. After accepting the complaint one unique complaint id will be generate by the cloud security and it will send to user account. Further process will be done based on this complaint id.

**Filing FIR and Search Criminals by Tracking Location**
In this module, the police will read the entire complaint and file the type of complaint and proceed. Each and every update will goes to user time by time about the progress of the case. After filing the FIR police will start investigate and interrogate about criminals. They will give each and every update to the users about their stage of investigation. If they find criminal they will give information to the user. And overall the complaints based on their types will be displayed in a pie chart along with percentage of particular crime.
IMPLEMENTATION:

Public Registration

Welcome Citizens...

Your Name
Email
Password
Confirm Password
Mobile Number
Address

Sign Up

Figure.1.0

Public Online Complaints

<table>
<thead>
<tr>
<th>Complaint Name</th>
<th>missing person</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject</td>
<td>my uncle was missed</td>
</tr>
<tr>
<td>Complaint</td>
<td>He missed today in beach</td>
</tr>
<tr>
<td>Location</td>
<td>anna nagar</td>
</tr>
<tr>
<td>Address</td>
<td>chennai</td>
</tr>
<tr>
<td>Evidence</td>
<td><img src="20170211_15d532.jpg" alt="Image" /></td>
</tr>
</tbody>
</table>

Figure.1.1.
Figure 1.2

Police Registration

Welcome Police...

Police Name
Email
Password
Confirm Password
Mobile Number
Location
Address

Sign Up

Figure 1.3

CIR Status

<table>
<thead>
<tr>
<th>Complaint Name</th>
<th>Subject</th>
<th>Complaint</th>
<th>Evidence</th>
<th>Location</th>
<th>Address</th>
<th>Complaint Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>missing person</td>
<td>my uncle was</td>
<td>he was missed in</td>
<td></td>
<td>annanagar</td>
<td>chennai</td>
<td>pending</td>
</tr>
<tr>
<td>person</td>
<td>missed</td>
<td>beach</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Figure 1.4

Your Complaints & Status

No Criminals found in this location

Online Complaints

Status of CIR

Status of FIR
Now a days, raising complaints in police station is hand written. In web application, the complaints will be registered in web portal. By using mobile application the complaints will be registered in android smartphones.

There is no facility to track the location. There is an option to track the location by maps. It provides the facility to find the accurate location by GPS.

There is no feature to provide valuable evidence. There is no option to give evidence. It offers an facility to capture a evidence in image format.

No option available to check the complaint status. No option available to check the complaint. In this application ,the user can also check the investigation status and crime rate.

### III. CONCLUSION:

This paper is explained, that how to overcome the problem of communication gap between the police during their investigation and also provide the solution to bridge the communication between them. The problem of fake reporting will be overcome by using this application. This application provides the details of the investigation process reported by the user and also has the facility of sending alert message to the police.

### FUTURE ENHANCEMENT:

In the future, some other security algorithm can be used to provide better security measure for criminal database. Also improve the location accuracy of the police and provides some safety precautions to the public by using this application.

### IV. REFERENCE:


[7]. Hellström, J., —Mobile technology as a means to fight corruption in East Africa‖, Available at:http:// upgraid. wordpress. com/


[9]. Portio Research, —Smartphone Futures 2012-2016‖ Available at: www.portioresearch.com/media/2548/SPF12-16 BROC.pdf