Online Crime Record Management System

¹Sahastra Rawal, ² Bhavin Bayati, ³ Honey Mathur, ⁴ Himani Jain, ⁵ Chesta Singh, 6Prof. Jitendra Sharma

1,2,3,4,5 B.TECH Students, 1,2,3,4,5 Geetanjali Institute of Technical Studies, Dabok, Udaipur(Raj.)- 313022
1,2,3,4,5 Affiliated to Rajasthan Technical University, Kota, Rajasthan
6 Professor, Geetanjali Institute of Technical Studies, Dabok, Udaipur (Raj.)- 313022
6 Affiliated to Rajasthan Technical University, Kota, Rajasthan

Submitted: 10-06-2021 Revised: 23-06-2021 Accepted: 26-06-2021

ABSTRACT

Crime which is an unlawful act is increasing in our society day by day. With the advancement of technology, criminals are also getting new ways of doing crimes. Crime takes place due to a few common reasons that are money, imbalance mentality, and emotions. After the crime takes place victims need to go through a very complicated and lengthy process for reporting the crime at police station. It's also a very hectic process for the crime branch to do it manually and maintain the records. So, the crime reporting system is the solution for all the victims and for the crime department. This will not only make the work easy but also it will help the users to access many features like news feed and all the updates regarding crime taking place in your locality. It will bring the police and the victims closer and hence increasing the security. This makes the FIR registration simple and easy hence making it timeefficient. The system will help the crime department to take action as quickly as possible and maintain the database efficiently. The police can even update an alert to the citizens regarding the most wanted persons, lost belongings, and any kind of emergency through this system. As a result, this system will give a sustainable solution to the users, police, and victims for managing the crime in a better and a structured way.

Keywords: Crime report, Police, Security, Criminal, Victims

I. INTRODUCTION

Our app is a web-based application that provide facility for reporting online crimes. User can register their complaints online. The system at any point of time can provide the details of existing charge sheets and their statuses. People checks missing persons details online using this system. The system at any point of time can provide the details of the police station and the employees.

Using this system any Number of clients can connect to server. This system also allows user to view all the most wanted persons which can be given by the administrator.

The main objective of the Project on Online Crime Reporting System is to manage the details of Crime, Criminal, Police Department, Public, Complaint. It manages all the information about Crime, Solutions, Complaint, Crime. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the Crime, Criminal, Solutions, Police Department. It tracks all the details about the Police Department, Public, Complaint

II. LITERATURE SURVEY

Behavioral analysis of crime against women using a graph Based clustering approach.2017 International Conference on Computer Communication and Information (ICCI): Crime against women is increasing at an alarming rate in almost all parts of India and women in the Indian society

This system is designed for particular need of the company to carry out operations in a smooth and effective manner. The application is reduced as much as possible to avoid errors while entering the data. And it also provides error message while entering invalid data. No formal knowledge is needed for the user to use this system and hence it proves it is user friendly. Online crime reporting system can lead to error free, secure, reliable and fast management system and it can assist the user to concentrate on the other activities rather than to concentrate on the record keeping. The purpose of the project is to automate the existing manual system with the help of computerized equipment and to fulfill the requirements so that the data can be stored for long period with easy accessing and



International Journal of Advances in Engineering and Management (IJAEM)

Volume 3, Issue 7 July 2021, pp: 78-81 www.ijaem.net ISSN: 2395-5252

manipulation have been victims of humiliation, torture and exploitation.

It has even existed in the past but only in the recent years the issues have been brought to the open for concern. According to the latest data released by the National Crime Records Bureau (NCRB), crimes against women have increased more than doubled over the past ten years. While a number of analyses have been done in the field of crime pattern detection, none have done an extensive study on the crime against women in India. The present paper describes a behavioral analysis of crime against women in India from the year 2001 to 2014. The study evaluates the efficacy of Info map clustering algorithm for detecting communities of states and union territories in India based on crimes. As it is a graph-based clustering approach, all the states of India along with the union territories have been considered as nodes of the graph and similarity among the nodes have been measured based on different types of crimes. Each community is a group of states or union territories which are similar based on crime trends. Initially, the method finds the communities based on current year crime data, subsequently at the end of a year when new crime data for the next year is available, the graph is modified and new communities are formed.

Tweet summarization using graph-based clustering technique Twitter is an online social networking site, where hundreds of millions of tweets are posted every day by millions of users. It is considered to be one of the fastest and most popular communication medium and is frequently used to keep track of recent events. Tweets related to a particular event can be found using keyword matching and many of them contain identical information. If a user wants to keep track of an event, it is difficult to have all the tweets containing identical or redundant information and it is desirable to have good techniques to summarize large number of tweets. A graph is been proposed for summarizing tweets where a graph is first constructed considering the similarity among tweets and community detection techniques are then used on the graph to cluster similar tweets and finally a representative tweet is chosen from each cluster to be included in the summary. The similarity among tweets is measured using features based on Word Net synsets which help to capture the semantic similarity among tweets. The proposed approach achieves better performance than Sum basic which is an existing summarization technique. Data mining-based crime investigation

systems: The number of crime incidents reported per day in India is increasing dramatically. The criminals use various advanced technologies and commit crimes in tactful ways and this makes crime investigation more complicated process and the police officers perform lot of manual tasks to get thread for investigation. The paper deals with the study of data mining-based systems for analyzing crime information and automates the crime investigation procedure of the police officers and the majority of these frameworks utilize a blend of data mining methods such as clustering and classification for the effective investigation of the criminals.

Crime analytics: Analysis of crimes through newspaper articles Crime analysis is one of the most important activities of the majority of the intelligent and law enforcement organizations all over the world and they collect domestic and foreign crime related data to prevent future attacks and utilize limited number of law enforcement resources.

FIR Module In this module the user can file the FIR through Aadhar Number. The FIR registration form should get the details of the FIR such as Type of the case and Detailed Description. The user can select the Police station to which his/her FIR has to be forwarded. The user can also upload the related images for the case evidence while creating FIR and it is used for entering all the details about the crime. It contains the date, police station where it is recorded, place, nature of crime, location of the crime, etc. The case details will be forwarded to the respective police station. The admin of the police station will see the FIR and he/she should take the necessary steps. The steps have optimum manner. A major challenge faced by most of the law enforcement and intelligence organizations is analyzing the growing volumes of crime related data. The vast geographical diversity and the complexity of crime patterns made the analyzing and recording of crime data more difficult. Data mining is used for analyzing and deriving analytical results and it presents an intelligent crime analysis system which is designed to overcome the problems and it is a web-based system which comprises of various techniques and this proposed system consists of rich and simplified environment that can be used effectively for processes of crime analysis.

III. EXISTING SYSTEM

The old manual system was suffering from a series of drawbacks. Since whole of the system was to be maintained with hands the process of



International Journal of Advances in Engineering and Management (IJAEM)

Volume 3, Issue 7 July 2021, pp: 78-81 www.ijaem.net ISSN: 2395-5252

keeping, maintaining and retrieving the information was very tedious and lengthy. The records were never used to be in a systematic order, there used to be lots of difficulties in associating any particular transaction with a particular context. If any information was to be found it was required to go through the different registers, documents there would never exist anything like report generation. There would always be unnecessary consumption of time while entering records and retrieving records. One more problem was that it was very difficult to find errors while entering the records. Once the records were entered it was very difficult to update these records. The reason behind it is that there is lot of information to be maintained and have to be kept in mind while running the business. For this reason, we have provided features Present system is partially automated (computerized), actually existing system is quite laborious as one has to enter same information at three different places.

IV. PROPOSED SYSTEM

The proposed system is a mobile application which allows user to file report and check out what is happening nearby them which just an ease of click.

There are 3 categories that a user can file; Complaint, Crime Report and Missing Report and can see all the status of what action has been taken by the admin. To file any of the above 3 complaints, the user should register in to the system and provide his right credentials to file them. The crime reporting system project also allows other users who doesn't want to register but can check the crimes happening at his/her or any other area, has to just provide the pin code and in return the system displays the list of crimes if any filed.

The offline i.e., the unregistered user can also take advantage of checking the missing person details, but he/she is refrained from getting complaints done by the users. The Front End of the crime reporting system is done using Android Studio and Firebase serves as a backend to store books lists and inventory data. The system, has both the user as well the Admin Part, the role of admin is to just check all the 3 modules or categories and update their status likewise. This system helps the users in tracking any report filed to the law and take an advantage of reporting any complaint from anywhere bringing the whole system online.

i. Functionalities

- 1. Provides the searching facilities based on various factors. Such as Crime, Police Department, Public, Complaint
- 2. Online Crime Reporting System also manage the Solutions details online for Public details, Complaint details, Crime
- 3. It tracks all the information of Criminal, Solutions, Public etc.
- 4. Shows the information and description of the Crime, Police Department.
- 5. To increase efficiency of managing the Crime, Criminal and informing public.
- 6. Editing, adding and updating of Records is improved which results in proper resource management of Crime data

V. BLOCK DIAGRAM

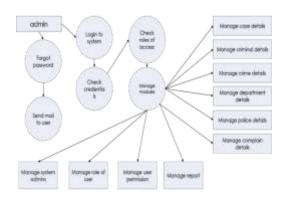


Fig 1 – Block Diagram for application

VI. HARDWARE AND SOFTWARE REQUIREMENTS

Hardware

Microsoft Windows 7/8/10 (32-bit or 64-bit) ,3 GB RAM minimum, 8 GB RAM recommended (plus 1 GB for the Android Emulator),2 GB of available disk space minimum, 4 GB recommended (500 MB for IDE plus 1.5 GB for Android SDK and emulator system image),1280 x 800 minimum screen resolution.

Software

React Native and Flutter to create back end as smooth and as minimalistic as possible so user can have an astonishing GUI to use. Android JS allows for the development of Android applications using front and back-end components originally developed for web applications: Node. js runtime for the backend and Android WebView for the frontend. Android Studio build applications as it provides Structured code modules allow to divide the project into units of functionality that you can independently build, test, and debug.

International Journal of Advances in Engineering and Management (IJAEM)

Volume 3, Issue 7 July 2021, pp: 78-81 www.ijaem.net ISSN: 2395-5252

Firebase for creating backend as it provides Realtime Database lets you build rich, collaborative applications by allowing secure access to the database directly from client-side code. Data is persisted locally, and even while offline, Realtime events continue to fire, giving the end user a responsive experience.

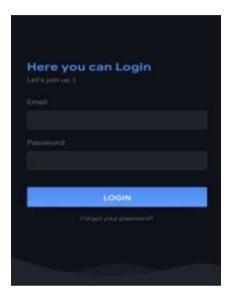


Fig 2 – Application Login Page

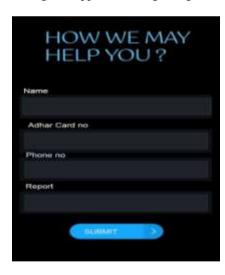


Fig 3 – Application Reporting page

VII.CONCLUSION

In the instance of a victim or a witness, the Crime Record Management System allows user to file am online complaint against any crime. The system makes it simple and quick to record a complaint, a crime, or a missing person complaint in the simplest and shortest method possible. The system enables the user to verify the status of their

complaint, allowing them to use it more effectively and efficiently.

REFERENCES

- [1]. A.Abbott,The System of Professions:An Essay on the Division of Expert Labor, Chicago,1988.
- [2]. M.Altvater, Management of Knowledge intensive Companies, Berlin/New York, 1995. Nasridinov and Y.-H. Park, "A study on performance evaluation of Machine learning algorithms for crime dataset," in Advanced Science And Technology Letters, Networking and Communication 2014, vol.66, 2014, pp. 90–92.
- [3]. S. Saitta, B. Raphael, and I. F. C. Smith, bounded index for clusterValidity," in 5th InternationalConference on Machine Learning and Data Mining (MLDM 2007), vol. 4571, July 2007, pp.174–187.
- [4]. E. K. Steven Bird and E. Loper, "Natural language processing in Python," 2007 R. N. Mangoli and G. M. Tarase, "Crime against women in India"
- [5]. statistical review," in International Journal of Criminology and Sociological Theory, vol. 2, no. 2, December 2009, pp. 292–302.
- [6]. D. K. Tayal, A. Jain, S. Arora, S. Agarwal, T. Gupta, and N. Tyagi, "Crime detection and criminal identification in india using data mining Techniques," AI & SOCIETY, vol. 30, no. 1, pp. 117–127, 2015.
- [7]. https://link.springer.com/chapter/10.1007/97 8-981-15-8685-9_34
- [8]. "Android Programming: The Big Nerd Ranch Guide" by Bill Phillps.
- [9]. "React Native in Action" by Nader Debit
- [10]. https://null-byte.wonderhowto.com/
- [11]. https://www.irjet.net/archives/V6/i4/IRJET-V6I4455.pdf
- [12]. "Linux bible" by Christopher Negus