Android App for Crime Reporting

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Abstract— The rate of crime cases in India is increasing every day. The system is an android application, which helps a common man to file a complaint against a crime happened, to the higher authorities. The higher authority is a person who perform administrative roll, the higher authority can view the complaint filed by the user and take up the required measures to solve the case. The users need to register in order to file a complaint and further can check his account to know the developments of his/her case. This system is very useful for the investigation department to speed up in their investigation and track status of multiple cases at a time. The authorities can find the location wise crime in the society through the proposed app. While file online complain user can upload the crime details along with the images.

Keywords: Android App for Crime Reporting

I. INTRODUCTION

The report published by the National Crime Records Bureau compare the crime rates of 1953 and 2018.The report noted that the murder rate has increased by 7.39% (from1953 to 2006) and missing cases has been increased by 47.80% (from 1953 to 2018). At this increasing rate of crimes and missing cases, it becomes difficult for a common man to bring his case in consideration of the authority. At this stage, the person can register in to the Crime Reporter application and file a complaint with all the details required, which will be viewed by the higher authorities directly. This application helps the user in tracking any report filed and takes an advantage of reporting any complaint from anywhere by bringing the whole system online. The proposed application can be installed in the systems of the higher authorities as well as the user. When a particular case is under consideration, the higher authority officer will update the progress of the considered case and the user can view these updates from any part of the world. By this quick investigation process, the crime and missing cases can be solved to a great extent. The proposed application helps people in emergency situations.

The proposed application provides such a platform that a user can file the complaint or report a currently happening crime from any part of the world. It can assure the safety of a person at any place, at any time and at any situation, since it provides the panic mode. A person is always under a protection mode as long as the proposed application is installed in his/her device.

II. LITERATURE SURVEY

Existing Paper reporting system is very burdened and cumbersome. The digitized Application may make the approach of record keeping centralized and transparent along with bring up the quicker resolution time for reaching the crime spot [4].

Mwangala Mwiya, Jackson Phiri, Gift Lyoko[1], is proposing a crime reporting and management model using GSM and GIS technologies in order to mitigate the challenges faced by most developing countries in reducing the crime rates. The paper has designed a Public Crime Reporting and management System that integrates GMS and GIS Technologies. The proposed paper has developed a proto-type which showed the improved results in terms of crime reporting by the public using mobile devices and improved management of reports due to automation of crime reporting and monitoring

This paper doesn't provide the facility to use the application to non-registered users, which will restrict people from using the application in emergency situation.

Syed Mujtaba Raza and Prof.Leelavathi Rajamanickam in[2],developed 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 also helps general public to report a crime to law enforcement agency. This android mobile application will help public to see the locations on the map which will help them to track the current situation of their surroundings. This app shows only the crime prone area, whereas it doesn't provide a platform to register the cases. It provides only public awareness.

V. Yadagiri, C.Hruthik Teja, D. Sai Suma and A.Chaithanyain [3] , have developed an android crime reporter which tracks the investigation status of criminal cases with logs as well as it also track complaints logged by the user. The system is proposed to help investigation bureaus to speed up their investigation process and track status of multiple cases at a time. In this system, the society itself helps the authority to get the crime details quickly and to proceed with investigation. They help the authorities to find out the crime ratio in the society. The system keeps data of a case which contain case summary, person involved, past criminal history of those involved, items recovered on scene and other details. The system realizes the type of case, allows admin to update the status of the investigation, upload more images of crime and items found on scene etc. User can post their missing person's details with a images. User may also check for the status updated by the admin. The system is developed to help investigation teams to work together on cases, coordinate and also increase speed the process by suggesting logical suspects based on data provided. The proposed paper provides access for multiple cases at a time, which will result in skipping of cases according to people's interest.
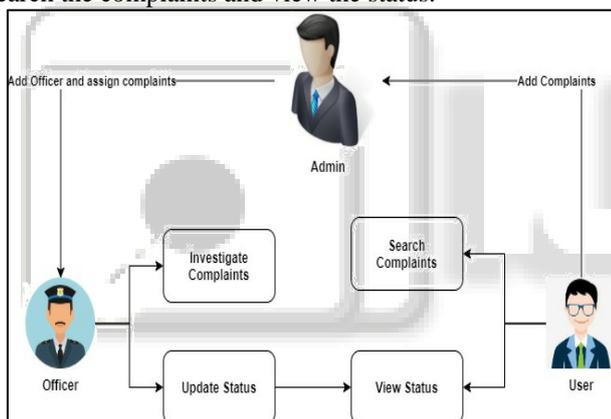
Wlliam Akotam Angangiba and Millicent Akotam Agangiba in [4], This is based on client-server architecture; allowing users (the general public) to exchange various categories of crime/criminal related information with law enforcement agencies in real time. In this app both police and the general public use same client app on their

mobile devices to interact with the server. Whereas police have the privilege of accessing all sort of information on the server, the general public is not. The police identified by their service number while special groups of IDs are generated for the general public during installation.

In the application, user authentications not perform hence unauthorized access and thus results in misuse of the data.

III. PROPOSED SYSTEM

The Proposed android application developed for crime reporting and store criminal records. The proposed system is helpful to the user that would provide an alternate path for the users passing by crime area. It allows user to report incidents and get it verified by the police officers. It will consist of an application for police officer which can perform database operations on criminal record and allows efficient retrieval of required information from the centralized database. The application targets general public and police officials for managing the incidents and crime without consuming much time. User can track status of the system and the admin can easily identify the problematic area in the organization. Admin also adds the new officers and allocate them the complaints register by users. Users search the complaints and view the status.

A. User

At first the user must verify his/her UID number. User need to register and create an account in the app in order to register a complaint. The user must provide clear and complete details with his Aadhaar card number to complete the registration and become a member of the application.

B. Process Complaints

The cases are forwarded to the authorities. The registered cases will be investigated by the allotted officers. The officers take their own time to solve a case. The status of the particular case is updated by the authority.

The status is updated as "Working on" when the case is considered, "Solved" after the case successfully solve.

IV. IMPLEMENTATION

The crime reporter app opens with registration page that takes phone number, UID number of the user . A user who wants to register a complaint, can click on the icon "Create New Account" and proceed. To register, a user need to provide certain information like, the users name, phone number and Aadhaar number. This completes the registration process. After login, it proceeds to the main page. In main page, the user should select category of the case, i.e. missing case, registering of case, crime or check. Once the user selects the category, the process leads to the next page, based on selection.

Senior Officer: The senior officer sets the case status and allots the cases to the investigation officers under him. The senior officer receives the registered case details from the user and the uploaded case detail from the investigating officer.

Investigation Officers: The investigation officer uploads the result/details regarding the crime.

The proposed application is designed as an android application. The general users can use the application as a mobile version. The proposed app is developed in core processor. As core processor is good enough for Android studio for app developed with minimum 4GB RAM, because the android emulator will otherwise take ages to start. A Hard disk of 8 GB RAM storage capacity is used in order to store the app. All data is stored online at firebase data base so user or officer can access data any time anywhere.

V. CONCLUSION

The subject of this paper is intended to frame an application for mobile devices and facilitate the users to help others caught in some crime or met with some accident or any other mishappening. It is the moral duty of a person to help others in grieves and to fight against the crime when the heap of crime turns out to be high. Prepare a status by the police showing their consent to proceed with the operation over the victim without waiting for them since immediate response could make the survival possible

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