

“Android Crime Reporter and Missing Person Finder”

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Abstract - The rate of crime and missing cases in India is increasing day by day. A system is developed to reduce the crimes and the missing cases taking place in the locality. The proposed system is an android application, which helps a common man to file a complaint against a crime or about the missing of a person to the higher authorities. The higher authority for example, 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 crime ratio in the society through the proposed app. In missing person cases, the user can upload the person's details along with the photograph.

Key Words: Crime Report, Android App, Missing Person App.

1. INTRODUCTION

This project is aimed at developing an android app that can be used to eliminate some drawbacks in the current system of lodging a police complaint. An online Complaint System is one of latest application which can be used widely by all organizations and every individual wherever there is a need of lodging complaints via users and the analysis of these complaints which are made.

Lack of paper movements provides complaint management operations a speed which was never envisaged in manual mode all. This Complaint management information reports on complaint details and pending complaints with reasons and remarks this provides a better insight to problems of the users. In India we don't have any direct communication between the government and public in an efficient way for solving the problems i.e. for getting a problem solved in our place we have to bribe the officials and get them solved in 2 months which can be solved actually in 1 month of time.

This is the most valuable, yet the most feared system among the citizens of the country. We aim at revolutionizing the system by the introduction of technology in the process. The aim of the project is to get the crime reporting process online so that the system is more accessible to the general masses and the interaction with the bureaucrats is reduced

in the process. This does away with the fear of dealing with the bureaucrats at an initial stage.

1.1 Objective

1. Crime Reporting and management System that integrates GMS and GIS Technologies.
2. In our baseline study, the results showed that 68% of the citizens walk to the police station, 30% made phone calls and less than 1% used Short Message Service (SMS), Internet or social media platforms to report crime.

1.2 Scope

The Scope of the system encompasses the “Crime Reporting” domain. This is a branch of the “National Law and Order”. This system aims to serve as a platform which is simple and highly useable for the citizens to file cases and report missing people. The scope of the system also includes bringing more and more transparency in the law and order process by getting the entire system online so that the people using the system have a managed proof of the complaints raised and the manipulation in the law and order system can be reduced to a minimum or completely eliminated.

1.3 Features

1. The User can check the missing reports or crime without giving his credentials to the system.
2. The user is allowed to file any number of cases.
3. Admin and the user have the same App limiting the cost and size.

2. LITERATURE SURVEY

2.1 Manual System vs. Android application

Finding lost person can be difficult task. The currently available Manual System for finding missing person has very long procedure and takes more time. More time is required for launching an FIR (First Information Report) in police station. Also time required for finding lost person is more. Also during manual process number of manpower for searching lost person is less. And in some missing person

related website they required FIR No for upload complaint on their website.

Relative of lost person will go to trust rather than going in police station to launch complaint. Trust user will add their complaint in our Android Application. This information will be stored on server which can be accessed by all trust members so that they can find lost children in specific region.

3. PROBLEM STATEMENT

This proposed System allows user to file complaints or missing reports and keep a track of it. 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 the user should register himself to the system and provide his right credentials to file them. The App also allows other user who doesn't want to register but can check the crimes at his or any other area, just provide the pin code and in return the system displays the crimes if any filed. The offline i.e. the unregistered user can also take advantage of checking the missing persons but he is refrained from getting complaints done by the users.

The Front End of the App is done using Android Studio and SQL serves as a backend to store books lists and inventory data. The App 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 App helps the user in tracking any report filed to the law and take an advantage of reporting any complaint from anywhere bringing the whole system online.

4. PROPOSED SYSTEM

To overcome from these drawbacks we are developing Proposed System as "Finding Missing Person (FMP)". This application is basically designed to perform all the tasks that previous system can perform all functionalities that are provided by existing applications as well as it gives additional feature to user. It will be for all android devices which support at least Android 2.1 Platform. We got idea about how interface should be for adding new complaint from this android application.

System will contain following features:

1. Display Information about missing person.
2. Adding new complaint.
3. Removing Complaints.
4. Searching person by particular attribute such as name, location etc.

4.1 System Architecture

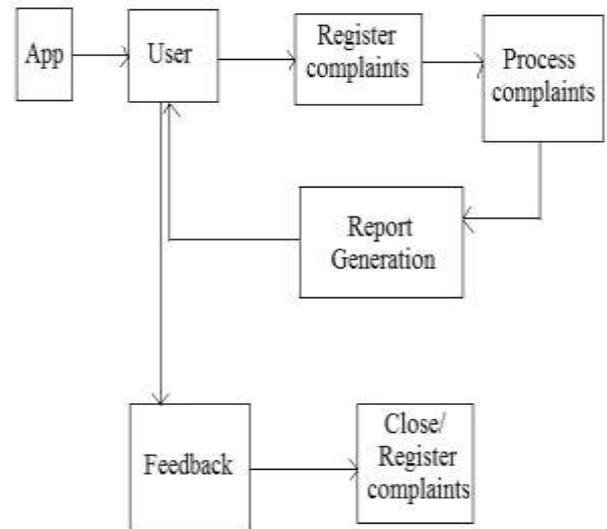


Fig -1: System Architecture

4.1.1 App

The proposed app provides a platform to register the grievances from any part of the world by just bringing the whole system online. The grievant just needs to register his complaint and wait for the status update. The grievant will notified through the app, about the status of his case. A grievant can file multiple cases through a single account. Both non-registered and registered user can use the application in emergency situations like, the user can use panic mode to record a currently happening crime or robbery, or can use alert mode to inform the authority if he/she spots a wanted criminal.

4.1.2 User

At first the user must verify his/her phone number through OTP. 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. A non-registered user can use the application in emergency situations.

4.1.3 Register Complaints

The complaints registered should be genuine and the data provided must be real. The registered complaints are provided with a case number within 24 hours of time. It is very necessary to fill in all the details required else it might result in the rejection of the case. Aadhaarcad number has been made essential in order to prevent the fake registrations.

4.1.4 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 “ongoing” when the case is considered, registered 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, date of birth, gender, passport size photo, permanent address , e-mail, designation, current city and Aadhaar number. After this first phase of registration, in second phase the user can give his/her email-id and then set a password of 8 characters. 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, re-registering of case, crime or check. Once the user selects the category, the process leads to the next page, based on selection. In case of the officers of the investigation department, they need to open the app and enter the case number. The non-registered users can use the application in emergency situations by clicking on the icon “Wanted” or “Panic”. This can help the authorities to a great extend to arrest the wanted criminals or stop a currently happening criminal activity.

4.1.5 User

The user needs to register into the app by filling the required details and then the user selects the “solved” after the case is successfully solved and “rejected” when the case is rejected. A brief reason will be specified for the rejected cases.

4.1.6 Report Generation

The report related to a particular case after successfully solving the case is uploaded by the department into the page of the related case number. The user can access the report through his account. The uploaded report can be viewed both by the user and the senior officer.

4.1.7 Feedback

The user can provide the feedback to the authorities regarding the case report and the investigation process. A user can ask his queries and the officer can answer the queries. The feedback can be viewed both by the senior and investigation officer, whereas the queries are viewed only by the investigation officer.

4.1.8 Close/Register Complaints

After the access of required information the user can close the application or can even register a new case. A user can file more than one case back to back through the same account. The user can maintain his account even after his/her case is solved.

5. CONCLUSIONS

In this modern time, People experience a lot of challenges with regards re-porting of the crime because of the long distances to police stations and the fact that very few

citizens even know the phone numbers of police stations and can therefore not contact them in case of an emergency. The other reason is that the Zambia Police toll free lines hardly work and calls made to the toll free number go unanswered. To safeguard people’s lives and property, the integration of ICTs in crime reporting and monitoring process is key as this will effectively bridge the communication gap between the police and the general public in fighting crime. The ultimate result of this study is to therefore develop a mobile crime fighting application that will be used for crime reporting and monitoring.

ACKNOWLEDGEMENT

The success and final outcome of this research required a lot of guidance and assistance and we are extremely privileged to have got this all. All that we have done is only due to such supervision and assistance and we would not forget to thank them.

We respect and thank Prof. Rasika Shintre, for providing us insight and expertise that greatly assisted the research. We are extremely thankful to her for providing such a nice support and guidance.

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