E-Police System

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ABSTRACT—
E-police system is a web based application. It is an E-governance related service which makes the communication process between the citizens, police as well as the judicial system easy. E-police system increases the professional efficiency of the police and court administration. It makes the public access to information and services easy .E-Police System provides a customer centric approach while delivering the services.

This system provides the transparency and also gives the notification of ongoing process of the cases to the citizens. At the heart of the E-police system is a mission to provide the tools and a common language to advance greater sharing of information between agencies in a secure and a controlled environment.

The main purpose of this project is to register the complaints of citizens via internet which is of immense help to the citizens. This system is easily accessible to the public, police as well as the judicial system. This system also helps the higher authorities of the police to track the progress of the investigation of the cases.

With the help of this system people can actually come forward and share the valuable information with the police which might help the police to make the neighbourhoods even safer by making better decisions.

Keywords— FIR, Police System, Help Desk System, Court System, Database Administrator

INTRODUCTION

E-government is defined as "The employment of the internet and www for delivering government information and services to the citizens (United Nations 2006, ADEMA 2005).

Everyday reports criticizing the police system has become a norm. Incidents of paperwork getting lost, damaged, compromised or leaked etc. are increasing day by day. All these incidents have shattered the confidence of people in the law and order of the country. The discontent among people has increased and the demand for efficient transparent police system has grown with the use of technology to improve access to the justice, boost collaboration between jurisdictions, and strengthen the legal system.

India has a large population and the police to people ration is 1:728, so the traditional way of crime reporting and investigation is less effective for a country like India because of the following reasons:

1) We have to find nearest police station for registering the complaint.
2) There is a lot of paperwork involved and thus it requires lot of maintenance and even occupies a lot of space.
3) For registering the complaint many police officers ask for bribe so people are reluctant to register the FIR.

Our system intends to provide an online application which is hassle free and devoid of corruption .This system acts to serve the interest of the people in a legitimate and an efficient way. This application successfully engage citizens in a new, dynamic and cost effective way of registering the crimes.
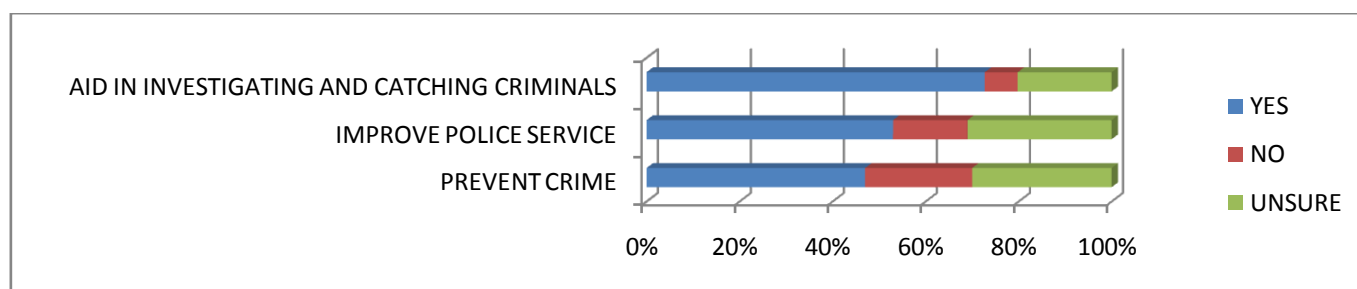
Fig. 1 Citizen's beliefs about social media in policing activities

According to a survey which was conducted by Accenture in August 2012 almost 88% of the citizens across six countries believe that citizens are vital participants in crime fighting and reporting a crime is no doubt a key role for citizens.

Figure 1 represents the same survey report which shows about 72% of the people believe that involvement of social media can aid in investigating and catching criminals and almost 53% of the citizens believe that social media can improve the police service.

It is a high time now to understand that if police and citizens work collaboratively then they can solve many difficult cases. As members of our cities and towns, it is our responsibility to speak up.

ADVANTAGES OF E-POLICE SYSTEM OVER PRESENT SYSTEM

The advantages of the E-Police system are given as follows:

1) Accessibility: As the E-Police system is a web based application so it is accessible to citizens at any point in time or place. People can connect to the network via the mobile unit for example cell phone and can make use of this application for crime reporting.

2) Secured communication: It provides a secured communication in the sense that no third party can intercept the communication taking place between two parties that is the police and the citizens.

3) Significant reduction in crime: With this application police can receive the real-time information about the criminal activities and more importantly capture a suspect information while it is fresh in the minds of victims and witnesses. And thus with the availability of adequate evidences it is possible to solve many criminal cases leading to crime reduction.

4) Receive notifications: After the case registration and validation of the case , the person who has registered that particular case will receive notifications regarding the progress of the case .

5) Provides more agile and responsive service: The main highlight of the E-Police system is the time constraint associated with every event generated in the system. Every generated event is completed in a stipulated time period.

6) Update the criminal database: This system also updates the criminal database frequently, thus providing the users with the latest information on criminals and their crimes.

7) Evidence storage: The evidences submitted by the users or to be more precise the citizens such as a text tip, a video recording, audio recording or a picture etc. all are stored at a secure place.

8) Other advantages: In addition to report the criminal activities , citizens can utilize the other services provided by this application such as view the list of most wanted criminals area wise , track the status of the reported cases , view the list of missing people , find out the nearest police stations etc.

IMPLIMENTATION OF E-POLICE SYSTEM

The users of this system architecture are the Citizens, Help Desk System, Police System ,Court System and Database Administrator .All these users connect to the network via mobile unit such as the cell phone and make use of this system.

A. Citizen: Once this application has been installed in the mobile unit then the citizen can report all the criminal activities taking place in his/her surroundings by sending a text tip with picture or audio evidence or by simply uploading a video as an evidence to the Help Desk System .

B. Help Desk System: After receiving a report, Help Desk System generates the temporary case id for that particular report, sends the case id to the person who has registered the case and verifies whether report is genuine or fake (one of the help desk employee goes to the place where crime has taken place and verifies the report) .Once it is clear that the report is not a fake one then the permanent case id of that case is generated and that case is forwarded to the concerned police station.

C. Police System: In the police station the FIR and the charge sheet of the case is created and investigations are carried out. After the criminals are identified and if the case requires intervention of the court system then the case is forwarded to the court system.

D. Court System: Once the case enters Court System then judge makes all the decisions on the basis of evidences regarding that case such as whether the guilty is to be proven as a criminal or not , if he/she is proven as a criminal then what all actions to be taken against that person etc.

E. Database Administrator: Here the job of the Database Administrator is to generate id's and passwords of all the users and update the database on the regular basis.
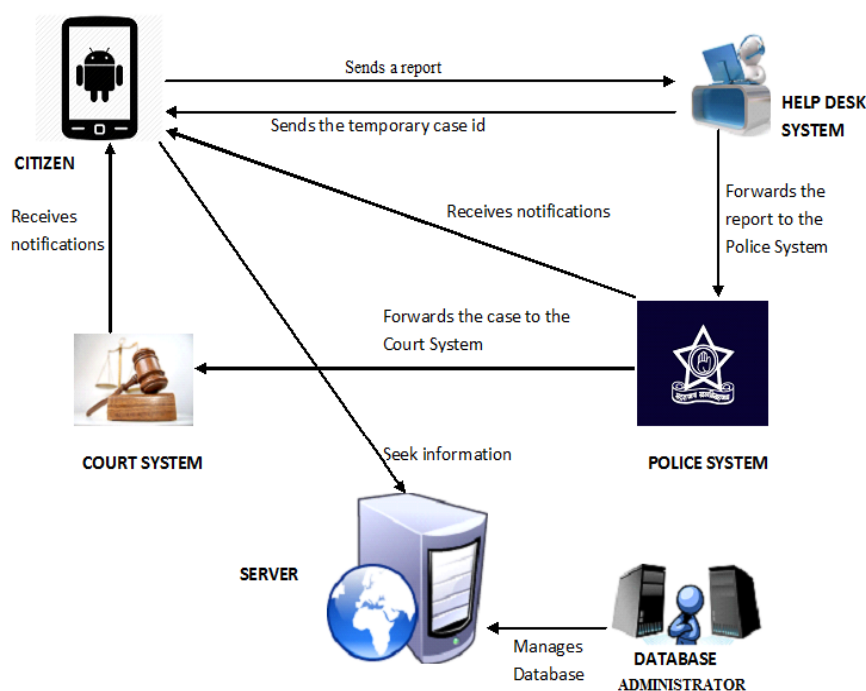

Fig. 2. Architecture of E-Police System

In this entire scenario, the user who has registered the case gets the notifications about the progress of the case and its status such as whether the culprits have been identified and arrested or not, if arrested then what all actions are taken against them, whether the case has been forwarded to the court or not and if it has been forwarded then the user gets notifications of all the activities taking place in the court as well such as hearing dates, punishment given to the culprit etc.

CONCLUSION

This paper will surely prove beneficial for the citizens and will help the police and the court to provide a more agile and responsive service thus increasing the crime reduction. As we are aware many crimes remain unsolved just because of the absence of adequate evidences, use of this application will allow people to more easily share information with the police thus overcoming the lack of evidences to some extent. The main focus of this paper is to improve the Police Administration of the developing countries like India to the world standard by making use of the latest information and communication technologies. In today's fast-paced communication era , the ability of each of us to contribute to our own well being and increase community safety is ever growing .This project also provides the 2 step verification and encryption algorithm that will help validate the users identity as well as secure the document given by the user.

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