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Design and Implementation of Online Crime Investigation System for Anonymous Person

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Abstract: ***Crime investigation system keeps track and maintains history about each and every case in the database which ultimately avoids manual and paper work. It is based on decentralized client-server architecture in order to facilitate independent functioning of all units. Here information flows from lower units to higher units and vice-versa. The project is built on multi-tier architecture. It provides quick access to data which is essential for effective prevention, control and detection of crime. It also helps decision-making and decision support processes. Crime investigation system is an intelligent decision support system that can assist human investigators by automatically constructing plausible scenarios. Some of the benefits of crime investigation system to existing system are quick retrieval of data, huge saving of time, proper deployment & utilization of manpower, cost reduction leading to saving in expenditure. It enables the police service to supervise and administer any incident and process related information by providing standardized processes and procedures to monitor and improve performance. Using this application people can give their complaint through online. To register any type of complaint they need to register his personal details along with login details. Once he/she registers in the application he/she can post their complaints.***
Keywords: Mining techniques, intelligent security system.

I. INTRODUCTION

Now-a-days everything is getting computerized except for crime management. We can see public who wish to complain go to the police station and file a complaint. Police maintain these complaints and FIRs and several other files manually. This software addresses these problems by letting public complain online and computerized management of these complaints along with maintaining records of FIR, Unidentified Dead bodies, Post Mortem, Patrol, Criminals, Most Wanted Criminals etc. for police.

This saves a lot of time of both police and public. This software is mainly developed for Mangalore citizens and it is a joint operation of police stations of different regions of Mangalore with the intention of making the city crime free. Crime investigation system keeps track and maintains history about each and every case in the database which ultimately avoids manual and paper work. It is based on decentralized client-server architecture in order to facilitate independent functioning of all units. Here information flows from lower units to higher units and vice-versa. The project is built on multi-tier architecture. It provides quick access to data which is essential for effective prevention, control and detection of crime. It also helps decision-making and decision support processes. Crime investigation system is an intelligent decision support system that can assist human investigators by automatically constructing plausible scenarios. Some of the benefits of crime investigation system to existing system are quick retrieval of data, huge saving of time, proper deployment & utilization of manpower, cost reduction leading to saving in expenditure. It enables the police service to supervise and administer any incident and process related information by providing standardized processes and procedures to monitor and improve performance. Using this application people can give their complaint through online. To register any type of complaint they need to register his personal details along with login details. Once he/she registers in the application he/she can post their complaints.

II. OBJECTIVE

The objective of this system can broadly be listed as follows:

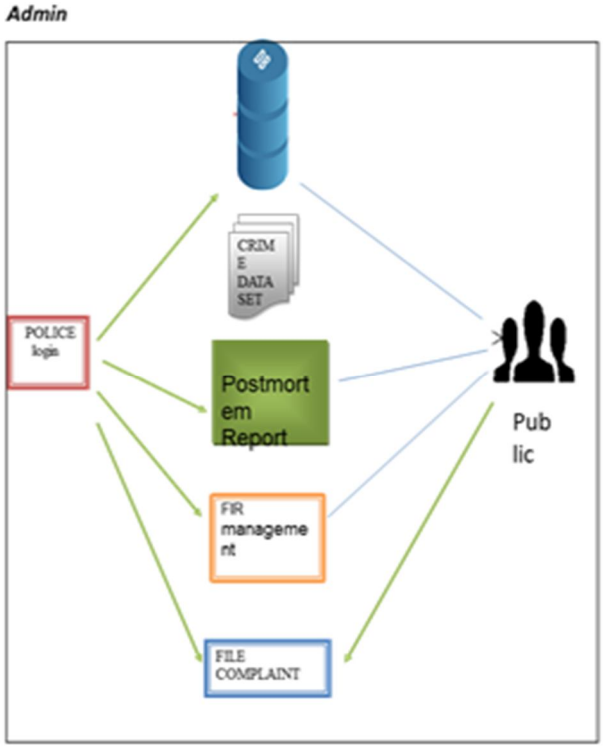
A. To keep record of the criminals
B. To record improvement and decline the rules and regulation activities of the Country.
C. To keep record of criminal's details for future investigation
D. To keep record of criminal's crime activities
E. Reduce manual and redundant records keeping

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III. LITERATURE SURVEY

Fuzzy Grey Cognitive Map (FGCM) is an innovative soft computing technique mixing Fuzzy Cognitive Maps and Grey Systems Theory. FGCMs are supervised learning fuzzy-neural systems typically modeled with signed fuzzy grey weighted digraphs, generally involving feedbacks. It is hard to find an accurate mathematical model to describe this decision-making because it includes a high uncertainty and the factors involved interact each other. FGCMs are able to capture and imitate the nature of human being in describing, representing and developing models. They are good at processing fuzzy and grey information and have adaptive, intelligent features. This paper presents a FGCM-based decision support tool, which synthetically takes the related factors into account, offering objective parameters for selecting the fitter surveillance asset. The proposed method is robust, adaptive and simple. A major challenge facing all law-enforcement and intelligence-gathering organizations is accurately and efficiently analyzing the growing volumes of crime data. Detecting cybercrime can likewise be difficult because busy network traffic and frequent online transactions generate large amounts of data, only a small portion of which relates to illegal activities. Data mining is a powerful tool that enables criminal investigators who may lack extensive training as data analysts to explore large databases quickly and efficiently. We present a general framework for crime data mining that draws on experience gained with the Copy link project, which researchers at the University of Arizona have been conducting in collaboration with the Tucson and Phoenix police departments since 1997.

Block Diagram



IV. MODULES

The system after careful analysis has been identified to be presented with the following modules:

A. Admin Module

Admin can register the police's in a state.
Admin can accept the detective and security agencies requests.
Admin can assign some criminal cases to particular detective and security agencies.
Admin can view all criminal's information.
Admin can view all missing people information.
Admin can view all type of criminal cases information.

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B. Police Module

Police can enter all criminal's information.
Police can enter all missing people's information and he provides some contact information's.
Policies can view the all queries raised by the public and takes some action depends up on the proof.
Police can upload some critical criminal cases to administrator.
Police can join discussion forums.
Police can send mails to others.

C. Public Module

Publican view all criminal's information.
Public can view all Missing people's information's and intimate to particular contact person or polices.
Public can also enter a relative's people missing information and provide some contact numbers.
Report of Crime Investigation System
Report of Admin process
Report of police process
Report of Public process

V. ADVANTAGES

The system is very simple in design and to implement. The system requires very low system resources and the system will work in almost all configurations. It has got following features
Ensure data accuracy's.
Proper control of the higher officials.
Reduce the damages of the machines.
Minimize manual data entry.
Minimum time needed for the various processing.
Greater efficiency.
Better service.
User friendliness and interactive.
Minimum time required.

VI. DISADVANTAGES

The aim of proposed system is to develop a system of improved facilities. The proposed system can overcome all the limitations of the existing system. The system provides proper security and reduces the manual work. The existing system has several disadvantages and many more difficulties to work well. The proposed system tries to eliminate or reduce these difficulties up to some extent. The proposed system will help the user to reduce the workload and mental conflict. The proposed system helps the user to work user friendly and he can easily do his jobs without time lagging.

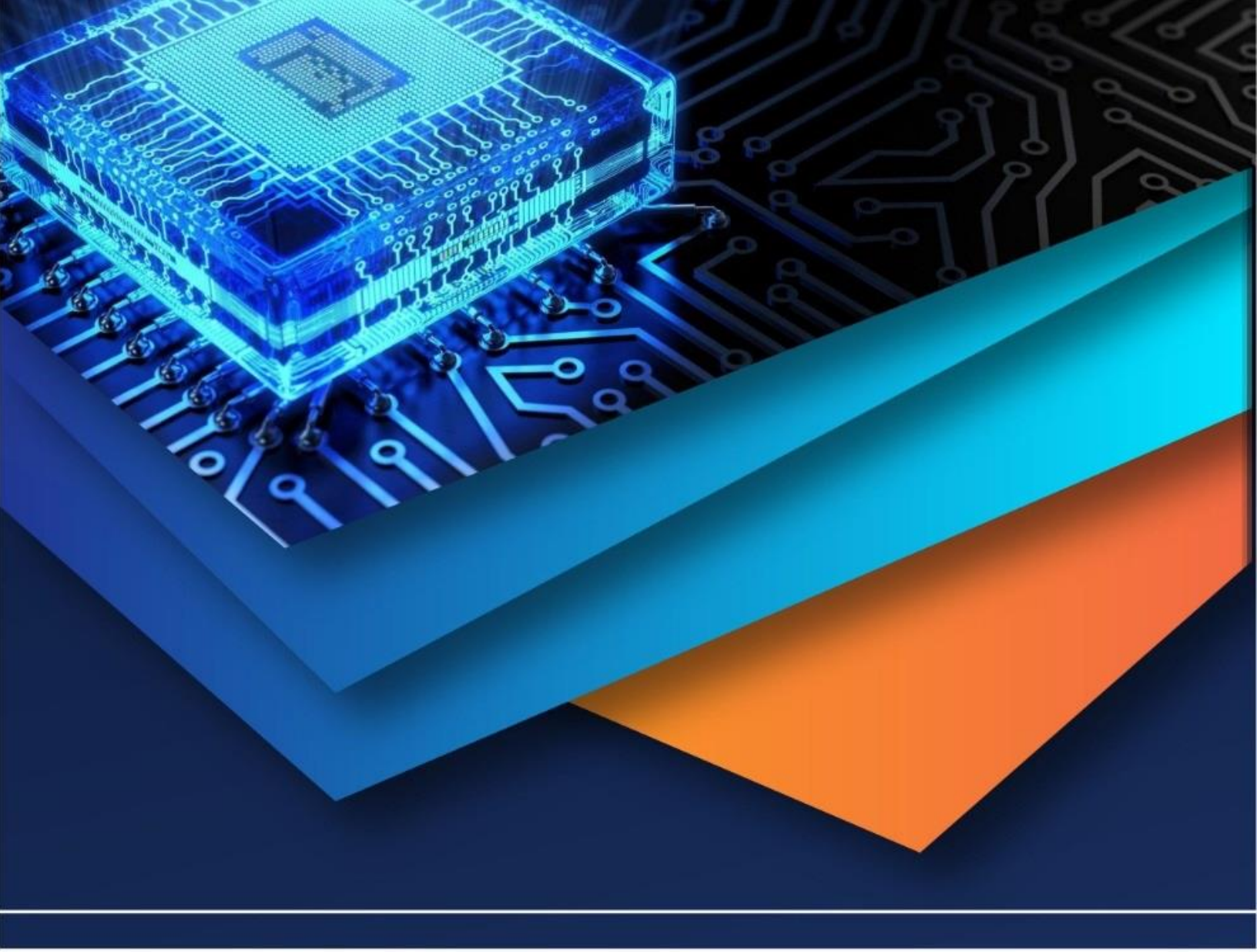
VII. CONCLUSION

The project titled as "Online Crime investigation system" is a web based application. This project provides facility for reporting online crimes, complaints, missing persons, show most wanted person details mailing as well as chatting. This software is developed with scalability in mind. Additional modules can be easily added when necessary. This project is developed with modular approach. Thus the system has fulfilled all the objectives identified and is able to replace the existing system.

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