Scheduling of Crime Reports in Online through Cloud Computing using Integrated and Compact System

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Abstract- The crime rate is increasing at an alarming rate and there are no existing technical systems in our country for the purpose of registering a case and managing the activities related to the FIR. We plan to create a project to bridge the gap between the police and the general man. SOS (Save Our Soul) system project is to have an app where users can file FIR against a criminal in different sections. Online FIR registration and SOS system project. Then we suggest unique stochastic process models that relate to the time of the intercom and to the violation. We also prove that the intercom periods and intercom measurements in such models can be calculated. In order to understand the essence of hacking events, we conduct qualitative and quantitative data trend analysis. We draw up several observations on information security, including the fact that the danger of information hacking actually gets worse in terms of magnitude but not degree of harm.

Keywords: Cyber Security, Cyber Hacks, Hacking Breach Incident, Breach Size.

1. Introduction

Crime study offers all strategies for crime prevention that are easily accessible to us. The criminal mechanism starts for those individuals who want an online report, and the idea is really helpful for the police and social services to figure out what's lacking with society without individuals going to the police department every day. The crime reporting system manages criminal information in a centralized database and provides a public solution to file complaints online and to get online and online services. It provides a lot of features to manage all the data in very well manner. It is to build an effective FIR registration system which will have various sections and a proper notification system once action has been taken. Authentication can include scanning of valid documents so that there would not be any false cases registered by mischief mongers. The user-id and password would be given to the users only after checking the documents. To ensure early FIR registration of accident and assault victims so that that early treatment can be given to the victims, thus helping in saving lives. To build a system which is compact as well as efficient? To build an integrated system which is user friendly as well as cop friendly? There is a gap between the common man and the police. People are very hesitant to go to the police and register the case. FIR registration will be performed manually given the fact that a submission may be created electronically. For cases of injuries and attack, the sluggish filing of FIR is one of the main issues to be tackled, as it will save time and treat the victims early. Crime avoidance and monitoring are now a significant criminal phenomenon and a big obstacle to criminal resolution. A number of studies have found different methods to resolve the

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crimes used in numerous applications. These experiments can help to speed up the crime solving phase and to identify offenders automatically through computerized systems. However, fastmoving technology can help solve these problems. However, the crime patterns are always changing and growing. Previously collected crime statistics from multiple outlets continue to slowly rise. There is a gap between the common man and the police. People are very hesitant to go to the police and register the case. FIR registration has to be done manually even though it can be done online through an application. Slow registration of FIR in Accidents and assault cases is one of the biggest problems which we believe needs to be taken care of as it can save time leading to early treatment of the victims. The '100' dialing system is not time efficient. Also, it may occur that the person does not know his/her exact location The SOS system which will be created will be a better option than the '100' dialing system. We think that it will be a program that is really powerful. Also, where there is a federal record, it may be a more secure archive of current networks. There are no existing technical systems in our country for the purpose of registering a case and managing the activities related to the FIR. The victims have to go and personally register the case in the police stations. One of the biggest challenges in the program is the sluggish identification of FIR in incidents and attack. The hospital officials also inform the patients that care is not resumed until a FIR is reported. The slow recording of FIR results in loss of valuable time which often results in blood loss.

2. Related works

Owing to the large amount of crimes that emerge from technical advances and demographic increase, crime detection has been one of the most relevant practices of the western world. Law enforcement authorities and organizations around the globe gather vast volumes of domestic and international criminal knowledge (intelligence) to deter more assaults. The perpetrators will file the FIR in various parts via an app. If necessary, the consumer should submit video proofs. Police are allowed to access the records at any time through a criminal database.

User details are being held private within this new framework so only people who travel to their closest police department can be sent. The query number of users is immediately transmitted from the server hand. Cookies and IP addressing were used to define the position and the actual user. If the consumer has photographs at all, he may even submit them via the software while filing a report. Once the police have finished the FIR, the users should be notified. This project is also simple to clone. The FIR must be reported immediately in these situations in order to allow doctors to begin care as soon as possible.

3. System Architecture



Figure.1. System Architecture



Figure.2. Authentication Module

3.1 Authentication Module:

A plug in is an authentication module that gathers data from a primary requester to enter a secured resource and tests the data against data store entries. The user is validated if the data supplied fulfills the authentication criteria. If the data does not satisfy the validation requirement, the user would be disqualified the validity. First, each station records the device. Registration starts when the details such as the administrative office's name, address, call number, station name etc. are entered by each station. This explains security such that the client is signed into admin, headquarters and customers. A different login password has to be accessible to both admin and users. Three sub-modules are accessible as follows.

3.2 FIR Module:

The consumer is able to file the FIR with the adhar card number in this section. Details such as case type and detailed description should be given in the FIR registration form. The user can select the police station that must be transmitted to his / her FIR. The consumer may even upload photos for the case proof during FIR development. This software is used to access all crime info. It includes the date, the police department, the time, the type of the crime, the position where the

crime is reported, etc. The crime's details were sent to the nearest police department. The police station administrator should see the FIR and take the measures needed. The measures against the FIR can be shown through the Case Status Module of the customer.

3.3 Notification Module

If for the particular period of time the status of the FIR has been held, the FIR numbers whose status has not been modified shall be forwarded to the Higher Authority as a notification. In our situation, to the workplace. Details of cases whose situation was retained for a certain period can be seen by the headquarter admin. It lets users control and track cases assignments of investigators. Knowledge about the job, mission, solvency and progress is accessible to better decision-making. Those are enough to minimize the use of paper types. The risk of content failure would be significantly minimized by the introduction of this program.

3.4 Case Report Module

In this module the rate and processing rate of crime reports of the police stations can be analyzed. And in certain locations we can also analyze the cases filed for each type. In the case of a crime in India, we have downloaded the broad data collection of service providers. And we have developed the article as a illustration for explaining the specifics of the situation. The crime report has been viewed as a graph with the Factor Graph Method and the Neural Network Convolution algorithms. It encourages the proactive consumers and the police manager to register and help them track incidents and to assess if the police are performing their work. It would also support the law enforcers in their decision-making.

3.5 Verhoeff Algorithm for Aadhar Validation:

The Verhoeff Algorithm was developed by the German mathematician Jacobus Verhoeff as a checksum format for error detection and was first published in 1969. It was the first decimal test digit algorithm that detected all one-digit errors and all two-digit transposition errors that were at the time thought unlikely with this application. To order to identify both single digit errors and some transposition of neighboring numbers Verhoeff decided to use a decimal code, where the test digit is a single decimal digit. At the time the supposed proof that such codes did not work rendered base-11 codes common, e.g. with ISBN digit scanning. His aims were realistic as well, and he focused his tests on the live Dutch postal system data on various forms of errors using a weighted dotted method. The examination showed that the errors had been classified into many groups: first, how many digits is incorrect, among those that had error of two digits there is transpositions (ab da ba), twins (aa-twin) transpositions (abc-twin), phones (1a to twin) and twins (aba twin). The study obtained many types. Statistics and statistics are still absent. While the concentrations of certain such errors may be low, in accordance with the primary objectives of detecting single and transpositions, some codes may be resistant to them. In specific, phonetic errors demonstrated linguistic consequences, as numbers usually read pairs in Dutch, so 80 does not sounds like 18 whereas 50 sounds are close to 15 in Dutch.

3.6 Factor Graph Method for Crime Report:

A diagram of a factor is a two-part diagram describing a component. Function graphs are used for factorization and use in probability theory and its implementations to allow effective

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computation, for example measurement of marginal distributions by sum product algorithm, of the probability distribution method. The power decodification of error correction codes, including the LDPC and turbo codes, is one of the big success stories in factor charts and the sum-product algorithm. Graphs with element generalize graphs with restrictions. A cap is called a component whose value is either 0 or 1. A constraint graph is a factor graph with constraints on certain variables. A generalization of the arc- consistency algorithm for the restriction processing can be used in the max products algorithm for factor graphs.



Figure 3: Home page

Admin, Users, and Headquarters enter the application through login. Both Admin and Users must have the separate username password.



Figure 4: User Page

The User can register through Aadhar card Number. Aadhar number is used for entering the information about crime.



Figure 5: Add Complaints

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The FIR registration form should be provided with FIR details like case type and detailed description. The user can select the police station that must be transmitted to his / her FIR.



Figure 6: View Complaints

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.



Figure 7: Admin Page

The admin from the Headquarters can see the details of the cases whose status has been put on hold for the set period of time. This allows users to maintain and monitor the case assignments about the cases for Investigative officers.



Figure 8: Admin details

Admin can update all the details. The admin from the Headquarters can see the details of the cases whose status has been put on hold for the set period of time.



Figure 9: Admin Login

Admin can login with their user-id and Password. The admin from the Headquarters can see the details of the cases whose status has been put on hold for the set period of time. This allows users to maintain and monitor the case assignments about the cases for investigative officer.

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Figure 10: Mail Page

The password that is generated through mail. It is used to activate the account



Figure 11: Crime Report

The crime report can be analyzed through this pie chart. In this chart, shows which type of cases is occurred during the following years.

4. Conclusion

A fully integrated and compact system can be used by both the ordinary man and the police in this project. It will be a win-win scenario for all of them to use this device. In the future, the initiative could prove a commonly available device that the military, the general citizen, defense forces and even hospitals (for victims of injuries or attacks) might use. It provides modern functionality and preserves the original characteristics of current structures (e.g. offender database) which is the most powerful aspect of this initiative.

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