Information Technology Enablement of Indian Police Department

Aditya Kumar Gupta[1]

[1]Associate Professor, Department Of Computer Sciences, School of Management Sciences, Varanasi

ABSTRACT

Application of Information Technology in the department of police is surely an idea that will be would help in their primary task, which is about to control and prevent crime in society. It would also help the police department to create a better and more intelligent system for the detection of crime in advance and to investigate it. The applications of IT would also help the police department to optimize its efforts, personnel, and resources.

The police department is established to maintain a secure environment with disciplinary approaches and well-defined traditional parameters. But with the advancement of new cyber threats, the necessity for the IT sector in the police department has increased. Information technology influenced the whole spectrum of society, each corner of the educational field, and trading services to a great extent which enhance the need for skill in every aspect of opportunities for development. Information Technology refers to the use application of computers to analyze, store and transmit valuable information, viewing the part of the world into a single entity of the market. Its major role in the education system has introduced a breakthrough in acknowledgment areas and produced a variety of opportunities. The major objective of using information technology in the police department is to determine and describe the role of IT for better achievements in the area of Safety and Security by enabling it to the police department. There is a requirement for the management of data in a prudent manner so that it could be used for future studies and prediction of crime. The high-end integrated IT solutions have generated wide scope of sustainability which leads to the growth of IT services, where enterprise problem-solving and skilled systems incorporated, are expected to fuel growth in this segment.

The application of IT would also be useful for the automatic generation of reports and statistics which will help for better management if the police force. It would also enable better integration and coordination with court, prosecution, jail, immigration, national crime boards, passport office, transportation authorities, motor vehicle licensing department, and many more. The skills must be developed in every comprehensive field with the thought to implement innovative ideas. The IT-enabled police force would not only create a better system for investigation but also result in speedy investigation and trial. IT in the police world also creates better supervision of investigation by senior officers, which would result in a better conviction rate.

Keywords: Information Technology, Safety, Security, Recovery System

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Introduction

It is observed that the country possesses economic and political stability when the governance of such a country is eligible to maintain a secure environment for its citizens. It is a certain benefit

that is involved in this sector: decreasing lawlessness, an efficient justice system, a solace working environment, etc. which reflects the contingency of the E-Governance strategy. The basic idea behind this is to adopt I.T. solutions in order to allow stakeholders to collaborate seamlessly and consume government services. The main problem that a country may face is a grave crisis of governance and the evolution of such crisis is due to the inefficient state, pervasive, inappropriate lawlessness, gradual increment in criminalization due to increased population and scarce resources which became the failure of police in enforcing the law and order and maintaining the peace and prosperity.

Information technology has played an important role in preserving criminal records and enhancing the capability of police departments. The new IT tools are not only useful for security but also significant in spreading the fundamental sense among society individuals and acknowledge the ultimate analysis of E-governance in an absolute manner. The functionality of the IT sector does not end up in this part but also its existence is marked up by the several significant demands in all edges of the sector industry.

IT in Police Department

Police are an integral part of the government that has the primary objective to maintain law and order, and investigating and detect crime. Police are also responsible for the protection of life, protection of liberty, and property of citizens and crises like social disrest. Other policing function includes VVIP security, intelligence gathering, traffic management, licensing, and so on. In order to perform effective policing activities, a large number of units are required such as personnel, armed police, training, vigilance, communication, control room, wireless, land and buildings, logistic,

transport, fingerprints bureau and many others. These all must function in a coordinated manner in conjunction with supporting units.

The operation of the police department largely deals with crime and criminals. Therefore, in many countries, the initial efforts of IT enablement in police departments were initiated by the national agency of crime. In India, the first computerization efforts started with the Crime Criminal Information System (CCIS) of the National Crime Record Bureau (NCRB). This model in India envisaged data entry of crime and criminals at the District Crime Records Bureau (DCRB) and then it is compiled at the state level by State Crime Records Bureau (SCRB) and then data in electronic form was sent to NCRB for compilation and action. The biggest problem in this concept is the data is not captured at the place where it was generated, that is police station levels. Voluminous data had to be entered into the computer by data entry operators or constables after manual and paper documentation by the investigation officer. This resulted in a large amount of blockage, and entry of wrong and invalid data that diminished the utility of data.

IT Enabled Practices

When the term "Safety" and "Security" is mentioned then it directly interrelates with the concerns that existed in continuing the stable behavioral responses. Thus, there is a requirement for such a system that is capable to manage and maintain the sophisticated growth of an entity without any fear of depletion of native properties. This has introduced the necessity of the police department or we can say the actual soldiers to protect basic rights and to abolish the improper activities being followed up under certain norms and regulation. As the technology emerges in a tremendous flow; hence, confining each module of

society into generating models of opportunities to transform each and every segment from the root to the top end as per the requirement. This everlasting hunger for growth in technology has resulted in enormous work in the field of cyber security labeled as Police. Various critical reasons were detected in the degraded performance of police departments against the expectation of individuals in maintaining certain fragile cases and situations. The problems are reduced to some extent with the implementation of IT, which evolved from the deep analysis of certain facts that are involved in it. The muddled scenario behind it is demolishing the overall integrity of "skill" factor.

Concerned Issues

These situations are undesirable to the society which somehow creates distress which is moving towards Urbanization with organized crime and amount of restlessness in the economy.

It will be wrong to define the whole scenario for the rural areas as identical to the wide picture found in urban areas. But the comprehensive picture can be visualized in a significant manner. Therefore, the issues behind the stage of sensitive societal reasons are elaborated as below:

Inappropriate Traffic Controllers

It is believed that the invention of atomization has somehow reduced the manual resource complexities and provided a productive state. Here, the police department requires constant monitoring of the traffic problems such as inappropriate enforcement of traffic rules, no such evidence is found after accidents that who are the suspect, etc.

Unawareness of New Technology

The unawareness among the authorities and individuals of the police department leads to the continuation of the practices of old hectic methods and tools for safety and security procedures. This will cause degradation in performance and dissatisfaction among citizens.

Slow and Long Investigation Procedure

Due to long investigation procedure of a cognizable case, sometimes the evidence found at a certain moment such as fingerprints, DNA samples, victim information, and medical reports is tough to retain the information for a long time. Thus, the preservation of details is required for further investigations.

Unavailability of Recovery Systems

There are a number of cases are found related to missing persons/ stolen vehicles etc. which follow a traditional method of reporting other nearby stations with wireless messaging, and when they can't find it, information is transferred to the public areas which is a cumbersome method.

Lack of Future Analyzing Scope

When the data is entered into the station diary, then it becomes an irrelevant and time taking process for analyzing the number of crimes, special circumstances contributing to crime, and level of crime in a particular geographical area.

Improper Updation of Software

The software which is used for security purposes is not maintained periodically as they lack the presence of software professionals, and required changes cannot be made. After going through the concerned areas, we need to visualize the problem in the context of technological development.

Future and Advanced IT-Based Development

With the help of ICT various spectrum of working techniques can be introduced to resolve the problem faced. Therefore, before synchronizing the techniques and tools of ICT and the Police Department, it is necessary to invite a bridge between them.

GPS System & High Definition Robotic Camera

The use of high-definition cameras and efficient use of GPS system could capture each unfavorable and criminalizing circumstance for further investigation and with the help of GPS system, data are transferred at each nearby station so that they could take action at a specified time thereby police officers across the nation have an arsenal of high tech devices to keep eye on each suspect as well as providing police and emergency services.

Transparency and Citizen-Friendly Interface

There is a requirement of friendly interface because the society has outgrown the police organization and the state government, despite its good intentions, has not succeeded to organize the police administration. Therefore, this dissatisfaction among citizens could be reduced by providing a friendly and entrusted interface that must be highly communicable so that it could transfer the information to the right locations. Here, the interface may be in the form of an electronic and automated control room whereby messaging (SMS), filing complaints, using some kind of application to make aware of unfavorable situations, etc.

Handling Databases

The police department cannot rely upon the manual written work completely on station diaries

because problems with data storage and retrieval means incident data can be slow to reach command sta ffand data lost can derail the investigation and analysis altogether. The Crime Mapping system provides information to the subunits about the level of crime, types of crime, favorable conditions that increased criminalization, and information regarding various criminals and suspects, etc. which could help to diagnose and prove preventive measures for reducing crime in specified area.

Communication Networks

With the help of smart devices connected to private broadband, officers can pick up a live feed of crime from CCTV cameras and transfer this information to the subunits/ local patrols so that the criminal could be brought up quickly and the incident reports are filed on the spot from the mobile devices. This means that the long working procedure involving collecting evidence, maintaining records, filing FIRs, the catching up to the criminal location, can be reduced and the corrective steps could be carried out quickly.

Involvement of Public

The private broadband connected devices and shop allied CCTV cameras can help for capturing the evidence and suspect at right time by synchronizing the various security systems in one surveillance network which must be handled and maintained by the control room so that there will be constant watch on incidents of theft, civic disturbance, and unauthorized access. Hence, the police will have eyes on those critical areas.

Conclusion

Adoption of IT in the police department would benefit for the police department as well as the

general public. Citizen could be access the service of the police department through their mobile devices. It will also maintain transparency in the department and help to reduce corruption level in the department. The application of IT would also result in increased accountability of the officers and lead to build trust and a better image of the department in citizens. It would also result in speedy redressal of public grievances.

The emerging impact of Information and Communication Technology in various sectors has resolved many undesirable circumstances and provided a new scope of agenda where public security is on high priority. Now, National Police Service Commission will have the beneficiary tool to provide a safety blanket for the society where the specific geographical boundaries will be able to implement real-time coordination with efficient services capable in dealing with emergencies and guarantees the security to citizens.

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