

**DEDAN KIMATHI UNIVERSITY OF TECHNOLOGY**

**PROJECT PROPOSAL FOR FINAL YEAR STUDY**

**IN**

**COMPUTER SCIENCE**

**BY**

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**AND**

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**PROJECT TITLE**

**POLICE ABSTRACT SYSTEM**

**Abstract**

We can see that technology has touched many spheres of our lives in Kenya. There is technology in business, in education, in socializing and maintaining human relations, in agriculture, in purchasing, in banking, communication, almost in every part of our lives. This intrusion of technology has aided the work in all this section, and has proved beneficial, and time and effort saving. The only major part of our society that still remains majorly devoid of this luxury is the Kenyan Police Department. The Kenyan Police Department has ever since remained manually driven for most of its routine chores. The officials have been adopting the basic fundamental methods of giving police abstracts with the traditional “pen and paper” method being highly prevalent.

These traditional practices were comfortable in earlier days, when population was far less, the loss of documents and accidents rate were also comfortably minimal.

But in today’s Kenya, when the population has gone high and so many cases of loss of documents, accidents being registered every day, it has become a very tedious task to manage the cases and all its related information and documents manually. Digitization in Police department is the need of the hour. The Police abstract system is being developed which will record loss of documents, accidents information through a mobile application and sends the information over to the police department and in this way the entire interaction occurs online, with information exchanges over the application and the web portal enabling generation of abstracts online.

**Problem Definition**

In Kenya today, the police department has remained issuing abstracts following a pen and paper manual process. In case of an accident, the process of recording information regarding the accident has seemed to be time consuming where the police officer is accompanied by the people involved in the accident to the nearest police station to record statements and the procedure has become expensive as of traveling costs involved to the police station.

The proposed police abstract system will help solve this by providing a platform whereby the police officer sent to the field will be able to record the statement and other information regarding the accident at the scene of accident.

**Objectives**

**General Objectives**

The system will allow the police officer to record statement, names of people involved, vehicles, witnesses, take pictures of the scene, location and based on the statement generate an abstract which will be sent to the people involved.

**Specifics Objectives**

To provide online abstract records storage that allows ease of retrieval for future reference.

Provide accurate and timely information about the accident occurrence any time a police officer accesses network connectivity. The objective reduces the time the information gets to target audience.

Allow the police officer generate and send abstract to the targeted individuals and if need arises to the insurance company.

**Justification**

The proposed police abstract system once completed will benefit its users by providing a way to record information regarding accident and get immediate abstracts. In addition, it will provide the police a platform for recording cases of loss of property and generate abstracts easily. It will also, provide timely information delivery; store data online which provide ease in future retrieval of data.

The system prevents the police from the need to manually go to a police station with causalities to record statements. Using the android application in his/her mobile phone, he/she can easily record incident occurrence. Also, the complainant does not need to repeatedly go to the police station for getting updates on his case as he/she would be notified through the application.

The Police Abstract System will aid in the process of record maintenance with e-documents.

With many countries like USA, Singapore and many other developed countries in the world already having a fully functional e-police system, Kenya must also develop up to the world standards.

**General Scope and Application of the project**

The system is intended to provide a solution to police officers in different stations to keep track of accidents within their localities.

**CHAPTER TWO: LITERATURE REVIEW**

The body of text aims to review the critical point of current knowledge including substantive findings as well as theoretical and methodological contributions towards our project. It doesn’t involve any original experimental work, just secondary sources. Chapter two of this document situates the current study within the field and scope covered by the project as well as providing context. The document gives an account of what has been published related to our project by scholars and other researchers. The document highlights on the knowledge and ideas that have been established, their weaknesses as well as strengths.

**CASE 1: E-police System for Improved E-Government Services of Developing Countries.**

E-government, necessity for good and corruption free nation, means by using information and communication technologies, especially internet, to achieve better government by delivering public services and processing internal works in government in a much more suitable, customer leaning and cost effective. Like other e-government related services e-police system is also an e-government related service which makes the communication process a possibility, a great success for modern era with increasing the professional efficiency for the

government’s police administrations. Although E-police system is not a new and original idea in context to global scenario especially in developed countries but it is new for developing countries. The police system helps in making the police work more efficient by equipping the police with modern ICT solutions i.e. it aims to ensure solutions and means for the police officers that support their main activity and it will be interesting for audience in the context of law and order situation in developing countries.

E-police system is the process where police personnel need to access information and report incidents, accidents and crimes while out on the road and their reporting involves not only data but also live images and pictures. It contributes to public security as well as minimizes all kinds of crimes. The police personnel would also be able to identify any criminals and this is possible if a database is available for any citizens including criminals’ and innocents’ all information. For the public safety there would be record about the wanted persons, suspected criminals’ history, wanted cars, stolen cars, cases, news and events, contact details,

recommendations, airline information and so on. The system gives free access of the citizens for their queries and complaints, establishing database for citizens and

police personnel, operation well despite sudden weather changes and circumstances, online traffic supervision and so on.

**Case 2: E-Police System- FIR Registration and Tracking through Android**

**Application**

This system was done for the Indian police department to help collect

complainant’s data through a mobile application, sending the information over to the Police department on their web portal, and in this way the entire interaction occurs online, with information exchanges over the application and the web portal. This system was developed to solve the difficulties that people face during registering complaints at any police station. First of all, the entire manual process was time consuming as the complainant had to physically go to the police station numerous times. The same also consumed a whole lot of money and energy. Other

disadvantageous factors included, Fear of getting harmed from people against whom FIR was filed, Lodging FIR against highly reputed person was sometimes a difficult task. By allowing citizens to lodge their complaints directly, this system circumvents police officers who were often reluctant to register FIRs, particularly in kidnapping and ransom cases. The system prevents the complainant from the need to manually go to a police station to lodge a complaint. Using the android application in his/her mobile phone, one can easily register the complaint with the police. Also, the complainant does not need to repeatedly go to the police

station for getting updates on his case as he/she would be notified through the application.

**Case 3: Middletown Police Reporting System**

This system was developed in Middletown as an attempt to make it easier for citizens to access offense reports, conveniently file police reports from home, work or anywhere with internet access. Also, it allows users to find offense records by providing an online offense search database. This has enabled Ohio State Patrol to respond to most accidents within Middletown City.

**Case 4: UON Research paper**

Following the research project done by Hellen Mideva Kumbuti which involves Use of technology as a strategy by Kenya Police in Detection of Crimes in Nairobi City established that Kenya police force has not adopted latest technological advancements in crime prevention. The key findings were that Kenya Police use personal mobile phones and walkie-talkies as the main communication equipment in crime prevention.

With reference to application of technology in innovation, the study established that technology has not been used to improve efficiency in crime detection by Kenya Police Force. However, the use of mobile phones has enabled police officers to call for assistance whenever they come across crimes. The study recommends structural re-engineering of technological hardware and software at the Kenya Police Force. There is a need to purchase modern equipment that sends real-time data on crime. The purchase of modern equipment will enable effective crime prevention and crime management. The study recommends that the Kenya Police should institute technology in its strategy management approach and incorporate governance. Technology should be treated as a tool to improve corporate image by increasing public participation in crime prevention and management.

REFERENCES

<http://erepository.uonbi.ac.ke/handle/11295/63076>

[www.cityofmiddletown.org/310/Police-Reporting-System](http://www.cityofmiddletown.org/310/Police-Reporting-System)