INTERACTIVE SYSTEM IN EFFECTIVE CRIME HANDLING

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Abstract

There is an enormous increase in crime sequences in recent past. The cops in their role to catch the criminals need even more convenience. Work of the cops to save cases against law breakers and law enforcers becomes much difficult. So there is a need for user interactive interface between cops and common peoples which can stores the information about all cases in a cloud database. So we proposed an application and web service which will serve this purpose. Finally the advantage of using this application when compared with current existing system, enhance investigation effectiveness of the police.

Index Terms: android, Cloud computing, web services, information system and networking.

I. INTRODUCTION

India is a vast country with more than 1.25 billion people and has a police force of 2 million. The role of police is to enforce law, protect property and civil disorder. In past decades there is limited number of crime sequence. So the handling of crimes was easier when compared with recent days. As technology increases there is an increase in crime rate. Therefore there is an essentiality of user interactive interface system between cops and people. To decrease the crime rate these system will definitely help police.

Case handler is an user interactive application and web service which will maintain the record of all cases with the case details and a web page which records all case sequence which can be viewed by any user by entering the respective case ID's. In web page the people can be able to interact with the police. An application is also provided for the smart phones which will be used only by the police officer for spot registering of cases. The case details with assurance of people thumb print at the spot through smart phones.

II. NEED FOR CASE HANDLER

In any nation the corruption becomes a severe threat to their development. The corruptions are holding their massive hands in crimes sequences The criminal gets released and the victims gets prisoned becomes common due to the corruption.

There is no awareness for common people regarding crime sequences and their investigations.

An interactive medium is needed for the police to deal with complicated cases.

Recording of information about the cases should not require much time.

III. PROPOSE SYSTEM

Case handler is an android based application and web page based services which mainly focus on these categories.

1. A case entry form is a form which provides online registering of new cases by any cops at any incidences through their smart phones.

2. A user interactive web service which provides information about current occurrence of each cases with details.

3. Since we have cloud database the viewing of case details of any cases by common people gets easier.
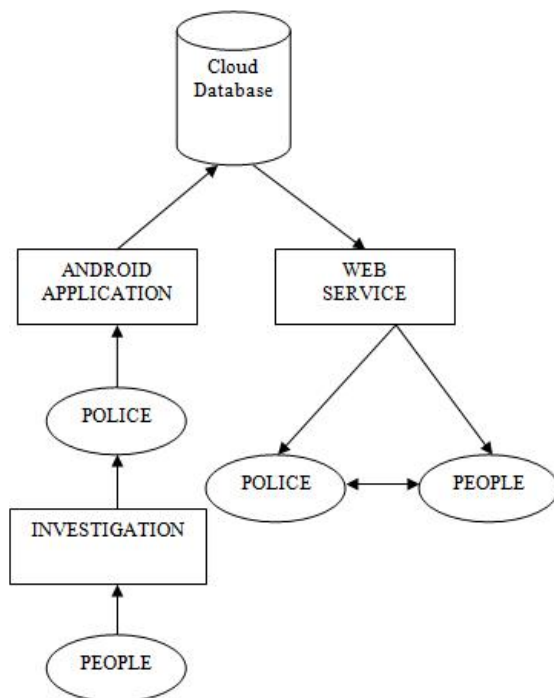
Android is a mobile operating system developed and maintained by Google. Android software development refers to the development kit which includes system files and API packages into the android program. Android is software stack that includes operating system and an application framework. It is programed with Java and XML. The java coding standards are based on Java 5 and Java 6. XML standards are for app configuration and resource management

Cloud computing is also know distributed

computing which provides delivery of Services of internet. [1] For example: Gmail, Yahoo mail and Hotmail are the cloud based services. In simple cloud computing is the software runs on remote hardware at remote datacenters. Here Cloud computing is used to store crime records in database as end users. The end users is a service provided by cloud computing. The software which are serviced as end user can be accessed from anywhere in the globe as long as the system is connected through internet. Thus the accessing of cases from anywhere in the globe through android app or webpage is made possible through Cloud Computing.

Web pages are web documents which are suitable for viewing details in web server or web browser. We are maintaining a separate web page for viewing case details for common users. [2] so that anyone can access their case details by just typing the case Id. Thus the details about case will be viewed. The web pages that are maintained will be only static because the web pages are delivered to the user as stored. The user cannot able to perform any changes over the cases details. He can only able to view the details.

IV. DEVELOPMENT ARCHITECTURE

Figure 1. *Development architecture of crime handler system.*

1. Android eclipse
2. Cloud database
3. Networking
4. Finger print scanner
5. GPS locator
6. Web page designing

A. Android eclipse

Android eclipse is an integrated development environment (IDE). It provides work space and plugins which are required for application development. [3] Programs in android eclipse are usually written in Java and XML. The latest version of android eclipse is eclipse mars (4.5). The android eclipse also contains android virtual device manager which gives enumeration of android software so that we can able to virtually run the software.

B. Cloud database

The cloud database is a database which typically runs in cloud computing platforms. A user can use a database in cloud independently or he can purchase the access of using the cloud. [4] The cloud database which we normally use is Parse. Parse.com's is a cloud service with data provided by cloud computing providers.

C. Networking

The networking is a process of transfer of data from one device to another. Here we transfer data from mobile app to cloud database or from cloud database to a web client. [5] Here the database maintained by the government will acts as a web server. The web client refers to web page user who is accessing the web page for knowing details about the cases.

D. Finger print scanner

Finger print scanner is automated method of recording finger prints. The finger prints differentiate a person identity from others.

By giving the finger print during investigation. [6] The person agrees the information recorded in the form is true. The finger print can be recorded in the app itself. So thus it reduces the work done in recording complains.

E. GPS tracker

Using GPS the current location of case incidence is recorded automatically which will reduces the work done by the officer. It also records the current location of officer which can be used in case of emergency.

F. Web page designing

The web pages can be developed by html, XML and JSP. The database gets linked to the webpage so that viewing of details made much

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easier. It is an interactive web page so that registering of crimes can also be made. These interactive service provided by webpage will be a back bone of future crime investigation scene.

ADVANTAGES

1. It reduces the amount of work done by the officer.
2. The offence of illegal entry of cases will be immensely reduced.
3. The case can only be added with knowledge of the person.
4. Anyone can know the stage of the undergoing case.
5. Police officers or public or any individual can know details about the particular case.
6. Case id will act as primary key therefore the pertaining of information about the case is made much easier.
7. Since the recording of details about the cases embedded within cell phone. There is no need of maintaining a separate file for handling each case detail.
8. It can be easily portable.
9. It is secured from disasters.
10. It cannot be modified or edited.

V. SYSTEM REQUIREMENT

1. Android eclipse luna (4.4).
2. Parse.com cloud website.
3. GPS tracker.
4. Finger print scanner.
5. Web page designing
6. IBM work light 6.0.

VI. CONCLUSION

Collective brains can better way for solving any complex problem.

Interactive webpage for crime handling make the investigation of crimes much easier.

This service provides police a suitable environment which supports special cases.

An android application which is embedded in smart phone will provide a smart way for police to record the crimes.

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