

Crimelet Cluster

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ABSTRACT

The Crime report application will be useful for the remote access of criminal data which will be helpful for the investigations carried by police department. The database of this project will be stored on cloud to gain remote access thereby avoiding false incidents to be notified to other user since information provided is first verified by the Police Official. After approval of details it will be broadcasted to other users via this application.

Keywords : MYSQL Server, Database, Cloud, GCM

I. INTRODUCTION

Today's era is seeking a great scope in mobile technology. This technology can be used in many other fields and application such as Gaming, Maps, E-mail, Messaging, Photography and so on. One such area is crime area detection and storing criminal data record. A recent mobile application named Mobile Vic PD, released by the Victoria police in Canada for fighting crime. The mobile application can be used to report minor crimes, offer anonymous tips to police, stay updated on crimes in progress, receive missing child reports or check on stolen property.

As the criminal data is not available remotely there is a communication gap between the police officials investigating any case. The disadvantage of this application was that it was prone to fake reporting of crime and there was no other way to verify that the incident was true. This caused chaos among the general public [1, 2]. This paper focuses on overcoming this disadvantage by providing a method for verifying the incident.

This application will be useful for the remote access of criminal data which will be helpful for the investigations carried by police department. The database for this project will be stored on cloud to

gain remote access. For avoiding any false incidence to be notified to other user, the information provided will be first verified by the police officials. After approval of the information it will be broadcasted to other users using the application.

II. METHODS AND MATERIAL

A. Existing System

The infrastructure serves as a common platform for both the police and general public to interact and exchange information about criminal activities and to track criminals. The three categories of information that the police can upload on the server are:

- Description of people on police wanted list and their related crime information.
- Description of missing items and their related information.
- Information about latest arrest made by police.

B. Proposed System

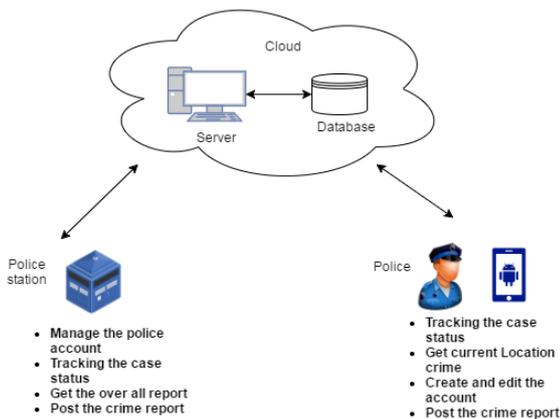
The purpose of this system is to develop an android application for crime area detection and store criminal records.

It will consist of an application for police officials which can perform database operation on criminal record and allows efficient retrieval of required information from the centralized database present on Cloud.

Advantages:

- Reducing the time for investigation.
- Reduce the distance and work pressure of the police location-based services, which rely on sharing of locations by a group of users in order.
- Avoids duplicate complaints.

C. System Architecture



The procedures are:

Step1 - The cloud which stores the entire data of the users include server and database. First from the user register a complaint about the crime to the database.

Step 2 – Each and every police officials should create an account using this application. It can be managed by the particular station of every officials.

Step 2 - The police station of any area can access the server to investigate regarding criminal activities which fed in the database.

Step 3 - Using this broadcasting, the multiple number of users can track the current status of the crime.

Step 4 - The Police official get the current location where the crime incidents are happening presents on cloud.

Step 5 - Crime reports of the incident undertaken by the officials are post into the cloud.

D. Modules

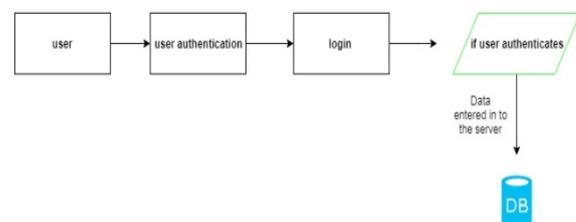
The list of modules:

- User Authentication For Application
- Storing in cloud
- Retrieving from cloud
- Feedback from user

Module Description

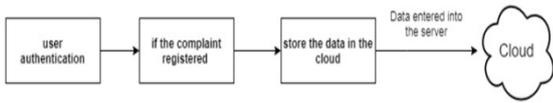
1. User Authentication for Application

- User authentication is a means of identifying the user and verifying that the user is allowed to access some restricted service.
- The main aim of this modules is to authenticate the user of application to view the crime.
- This module include username and password for authentication to application.
- The validation is based on web service in server.



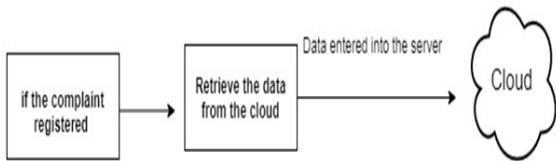
2. Storing in cloud

- User of the app can retrieve the data from the server.
- User can also find out the person based on the complaint which has been registered in the server.



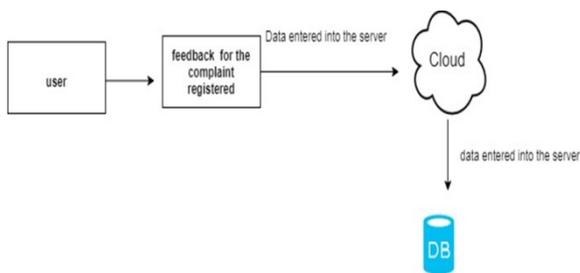
3. Retrieving from cloud

- User of the app can retrieve the data from the server.
- User can also find out the person based on the complaint which has been registered in the server.



4. Feedback from user

- The Main aim of this module is to get the feedback from the user.
- Based on the complaint which has been raised from the user if the user has been satisfied by the action taken for the registered complaint, then the required user can provide the feedback for their satisfaction.

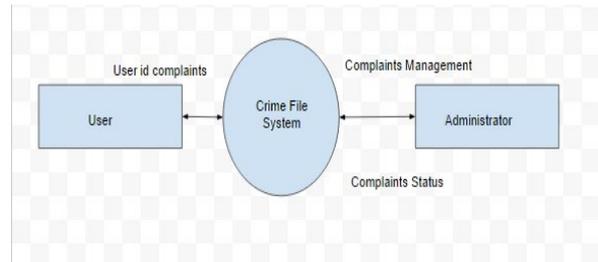


III. RESULTS AND DISCUSSION

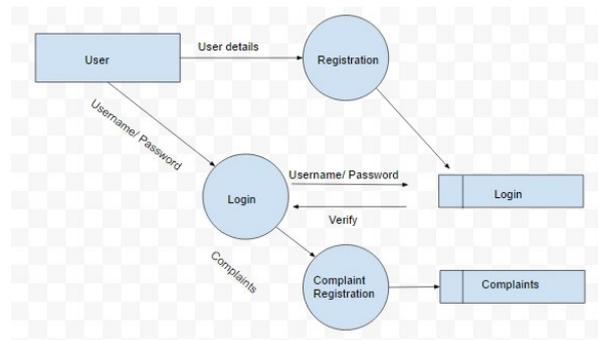
A. Unified Modeling Language (UML)

Data Flow Diagram

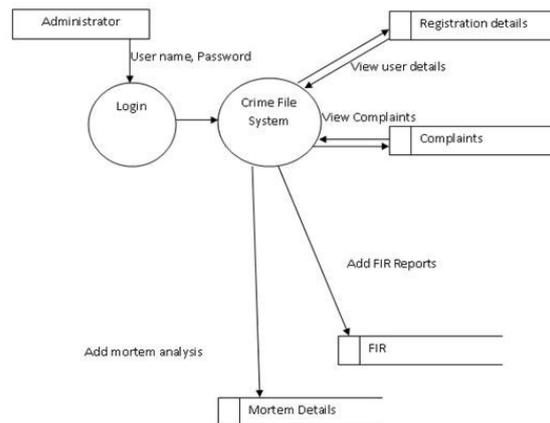
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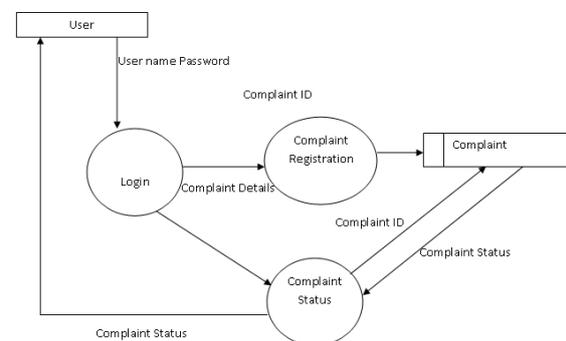
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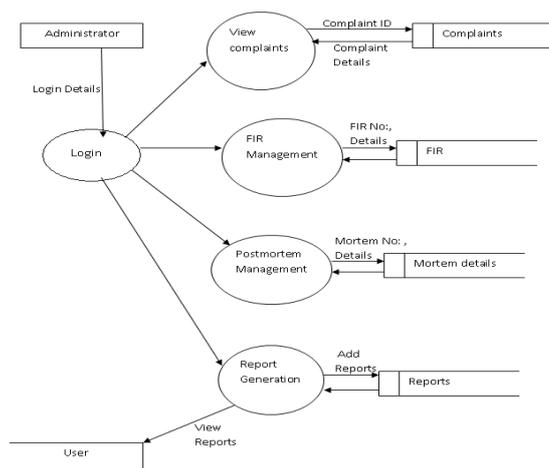
Level 2



Level 3



Level 4



IV. CONCLUSION

An android application for crime area detection and the stored criminal records will be used. We conclude that, general public and police department for managing the incidents and crime without consuming much time.

V. REFERENCES

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