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Real Time Crime Management System

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Abstract - The huge success of internet and information technology have a remarkable effect on both public and private sectors within a country. The internet services and applications have drastically increased. That's why people find it more convenient to use internet applications to give an online complaint regarding any suspicious activity rather than visiting a police station. This method is reasonably secure since it is possible to hide the identity of the person who reported the complaint about the crime. Many cases are not registered in police stations since the person complained wants to hide the identity due to the possible risk or danger.

It is also feared that there are many pending investigations due to lack of proper evidence from the reporting people. An online application can bridge this communication gap between police and the individuals to send reports or other required information. This paper proposes an application that can be used by the individuals in Riyadh to report and manage their complaints effectively. Further the system can be used by the people to register the complaints and is helpful to the police department in identifying the criminals. The main purpose of the application is to improve the effectiveness and efficiency of interaction procedures between the criminals and common people. It would be an outstanding tool to monitor and track the criminals around the country and also have a complete online record of crime related information.

***Key Words*:** Law, enforcement, Urban Areas, Registers, Monitoring, Password, Authentication

1. INTRODUCTION

The police stations have adequate importance in the society to control the law-and-order situations of the country. The data of police stations is sensitive and that needs to be handled within secured and fully functional software to avoid any unauthorized access. The developed application (software) will store data in an organized form and searching of records will be easier as compared to the manual system. It also enhances the efficiency of the Police without extra efforts required for record keeping and accessing. We see that when a group or society is formed the people make some rules and laws, for the people and for the people. The purpose of these rules and laws are to give a peaceful life to all who are living in that society.

The proposed application enhances the crime recording operations of the SPF. The data used by the is stored in a centralized database, which holds information about criminals, crimes, and users of the system. The database is the basis for all actions in the system and can be easily updated and used to aid in all of the system's processes, that is, all of the required information is stored in one central location and thus is easily accessible.

2. LITERATURE SURVEY

1) Sourav Bhowmick have developed a web-based application that provides managing the data and various information about the criminals and their crimes. It also provides the information and current status about the police stations. It stores the GD, FIR, number of cases and each and every detail of the criminals.

2) Mohammad Shahnawaz have developed a system that was connected across Cities and Towns and later on, be interlinked so that a police detective can access information across all records in the state thus helping speedy and successful completion to cases. The project has been planned to be having the view of distributed architecture, with centralized storage of the database. The application for the storage of the data has been planned.

3) R. G. Jimoh have developed a prototype crime reporting system that relies on four reporting forms a complaint or dispatch reporting form, a crime event report form, follow up investigation report form, and an arrest report form. The system consists of three functional modules: a data capture module, a report management and control module, and a data utilization module. Future work on crime reporting system can be tailored towards accessibility (mobile version), awareness and improvement on the usage.

3. EXISTING SYSTEM

In the existing system Currently, there is no online android application available to report crime online. In order to report any complaints related to crime, people have to contact the nearest police station. People of the particular city are not aware of crime related things such as list of Most Wanted criminals of their city, latest

crime related news, missing persons of their area. People have to view News Channels or Read News Paper for such crime related information. Thus, we c say that existing system is manual and does not provide all the information from one source

4. PROPOSED SYSTEM

Real Time Criminal Record Management Applications an android based application that is propose using Android and MySQL. The Objective of Real Time Criminal Record Management Application System is to develop an android based application using which people can report crime online and view criminals online. It provides the facility of viewing criminals so that users can take action immediately. It also provides the information of missing persons, most wanted criminals and safety tips for the awareness of people. This has a pleasant user interface and user-friendly functionalities. As I have mentioned above, the system can be accessed by 3 types of system users. The Administrator user is in charge of managing the list of the staff/users and also can manage the list of criminals. Users can view the criminal details through their android application from anywhere. The entire project has been develop keeping in view the distributed client server computing technology in mind. The specifications have been normalized up to 3NF to eliminate all the anomalies that may arise due to the database transactions that are executed by the general users and the organizational administration. The user interfaces are browser specific to give distributed accessibility for the overall system. At all proper levels high care was taken to check that the system manages the data consistency with proper business rules or validations. The authentication and authorization were cross checked at all the relevant stages. The user level accessibility has been restricted into two zones namely. The administrative zone and the normal user zone.

5. OBJECTIVE

The objectives of Application:

1. To keep record of the criminals

2. To record improvement and decline the rules and regulation activities of the Country.

3. To keep record of criminal's details for future investigation

4. To keep record of criminal's crime activities

5. Reduce manual and redundant records keeping

6. COMPONENT DESIGN

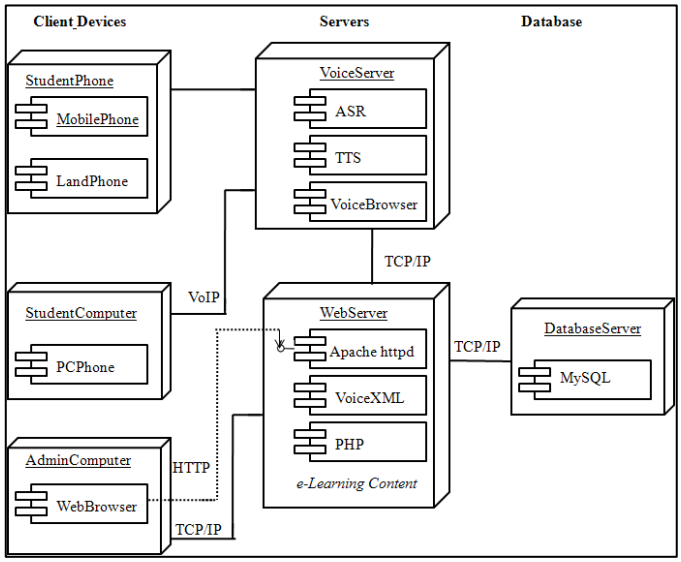

Fig No1.Component Diagram

7. MODULE ANALYSIS

I. Signup Module: At first the Tutors/parents need to register themselves. After registering, registered candidates can log in by giving their username and password. Each and every user has their unique username and password.

II. Creating Profile: After logging in candidates needed to choose one category between teacher or students. And need to fill up the form accordingly.

III. Admin: In this module admin can manage all police stations and staff which are registered in the system using basic details. Admin can manage police stations and staff like admin can add or update and delete police stations and staff details.

IV. Police: In this module police can register with their details after registration police can login .after successfully login police can add criminal's information

V. User: In this module users can register after the registration process. Users can login into the application using their provided username and password. after login users can view criminals and their information.

8. SYSTEM REQUIREMENTS

1.Hardware Requirements:

Processor	:	Intel CORE i3
RAM	:	4GB
Hard Disk	:	64GB

2.Software Requirements:

Operating System : Windows XP, Windows 7(ultimate, enterprise)

Software Package : Android Studio (Android Phone with KitKat and higher.)

9. ALGORITHM AND CONCEPTS:

In this application we use the Agile Algorithm It is one of the simplest and effective processes to turn a vision for a business need into software solutions. Agile is a term used to describe software development approaches that employ continual planning, learning, improvement, team collaboration, evolutionary development, and early delivery. It encourages flexible responses to change.

The agile algorithm emphasizes four core values.

1. Individual and team interactions over processes and tools
2. Working software over comprehensive documentation
3. Customer collaboration over contract negotiation
4. Responding to change over following a plan

9.1 ADVANTAGES

1. Saves time and money
2. In this application each schedule can be trackedfrom the start till the end of the Project cycle.
3. User friendliness is provided in the applicationwith various controls.
4. The system makes the overall projectmanagement much easier and flexible.
5. Provide User Friendly UI.

9.2 LIMITATIONS/ CONSTRAINT

1. It requires an active internet connection else error may occur.
2. Require Android Phone

9.3 APPLICATIONS

1. Embedded and Real-Time Systems.
2. This system is useful for Users to identify criminal
3. This system is used by Police staff to manage criminal record and manage police station,
4. This system used by user to track criminals

CONCLUSIONS

The developed system will help a lot to maintain the record of criminals, users, although it is not a complete system, still some improvements are needed in the developed components and there is a need to add some additional necessary components. Further, all the registers are not digitized, this system covers a few important registers which have more use in daily routine crime cases and are most frequently used. The proper testing of the software is important that enhances the quality of the software. The testing of important components has been carried out but further testing is required for the improvement. It is concluded that the developed software is efficient, reliable, portable, and user-friendly and can be easily implemented in police stations as a trial basis and system can be further improved after identification of the problems during implementation in the real environment and real data of Police stations and criminals.

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