

Digital Crime Reporting System by using PHP

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Abstract: The “Digital Crime Reporting System” is a website based on php scripting language for online crime reporting and for managing crime records in a computerized way. Here in this website the registration of a person is earlier than login is must if he/she wants to report a complaint or to report an incident related to crime so that the authentication of the user login will be done by the administrator in the website to allow the user to file the complaint. Thus the police will received the complaint and they can reply a message about the complaint status to the user. Officers can use this system to manage a distinctive crime and to manage the manual works which is carried out in the police department. The police login id and password will receive directly from the admin. The modules like news feed, missing peoples, safety tips and the list of most wanted criminals are available in the website which can be seen without logging in of the user. So this system helps the officer to discover the issues in the town/city without actually the people coming into the police station. The digital crime reporting system will manage activities (like complaint registration, updating information, searching a particular crime report) all these activity will save time and manpower. So this system helps the officer to discover the issues in the town/city without actually the people coming into the police station.

Keywords: Bootstrap, Crime reporting system, FIR, php.

I. INTRODUCTION

The digital crime reporting system helps in storing the records associated with the criminals’ data, cases failed, complaint records, FIR case history details and so on. This system permits the user to add or remove the data if it required. All these data are maintained in a single database. For only an authorized user should have access to the system the security is maintained especially when its about related to crime then the security is an important factor this software is a valuable the police can rely on. Anil Jaiswal [4], the system will maintain the information of all the crime where the user register themselves in the system.

The system provides an environment to store the criminals’ crime details and permits the complainer to view the records and also they can search the particular records. This system makes easy for getting criminals past years data. The system also helps in minimizing most of the manual work which is done by the officer.

Having a huge amount of data/records of the crime will make manual work more complicated which leads to more time consuming when its about data storing and accessing, but this system will reduce the complexity of storing records and minimizes the accessing time.

In this study the use of php scripting language which helps the system to operate at both side the user side and the officer side, the advanced designing tools like bootstrap and css are used which makes system interface more responsive and user friendly to the user. This system will bring closely contact between the people of society and the police which ensure more security in the society.

II. RELATED WORK

The objectives of this system is to make easier the functioning of police department with an user friendly interface and providing an automated functioning of police station,

Xiaosong [1], defines creating a web site by using a php scripting language which have advanced feature for creating a dynamic website as here in this system the mysql database is used to manage the records of the system and the sql commands can be implemented by using a notepad ++ editor tool and also defined an advanced frameworks and libraries which enhance the content given in the web page,

Shiju Sathyadevanery [2], discuss the effective usage of ICT where an investigating officers provided with tools, technology and the information which helps in the crime investigation and also provide an interface for interaction and information sharing among the police department, reducing the manual work and redundant record keeping but also updating the progress of cases.

Aparna [3], describe that the xampp server is used for the communication interface for this system which supports both the client-side and the server-side operations. Where all the php, css, bootstrap file is implemented on the specified xamp source path. As it support both the side the client and server so the applications on the xampp can be accessed from both the side, client can able to send request and upload the data and administrator at the server side can provide services and respond to the client request.

P. Natalya [5] presented the usage of css and bootstrap framework for creating an advanced and an attractive front end for the system. As these tools helps to make the web page more attractable and user friendly as bootstrap give advanced features which enhance designing phase of the system and also the cascading style sheet which is the basic style sheet for html and php in which the text alignment, font color, background color, font color, etc..., can be change and update.

Pratibha Mishra [6], designed a project on crime record management where they described that the benefits of keeping crime records in a software especially when it comes about police and crime then the record management system is plays an important role where the police officers can easily track the history of the criminal and they perform analysis on criminal case history and also keep track the activities of prisoners based on their crime records.

Mohammad Shahnawaz [7], developed an application which focus on the crime record management which takes the records of the entire police department across the nation, where the efficiency of criminals data is increased as it tackle the crime based on the quality of information it derives from the existing records. At first the system will implemented on the towns and cities. After the implementation the system will be interlinked so that the police retrieve information across the state.

D. K. Shaiba, [8], defined that there is great and huge success of internet and information technology which is remarkably impact on both public and private sectors of the country. Drastically increasing of internet services and application let the people to use internet more conveniently and to give a digital complain regarding crimes and suspicious incidents rather visiting the police station. It is a secure method hence its possible to hide the users identity who file the complain about the crime.

There many more cases which are unregistered in the police station since the complainer wants to hide his identity due to the possible risk and danger. Due to the lack of proper evidence the complain cannot be processed so this application will bride the communication gap between the officers and individuals, For monitoring and tracking the criminals in the country it would be a great tool and also it stores the complete digital record of crime data and its related information.

III. PROPOSED SYSTEM

The victim can file the FIR through this proposed system under various sections. The user can send an image evidence if any online. The police will have a criminal database through which they can access the documents anytime. While registering a case if at all the user has photo evidence he or she can send it too through the website for making a strong evidence case. The victim will be notified if the police have filed the FIR. This website used as an application for the online crime reporting to the police station as it manage the different activity documents which is related to primary information record.

The aim of this proposed system is to enhance an online crime reporting system for maintaining a computerized document of fir complaint against crime. As the system is a website software which can be access in the entire police department.

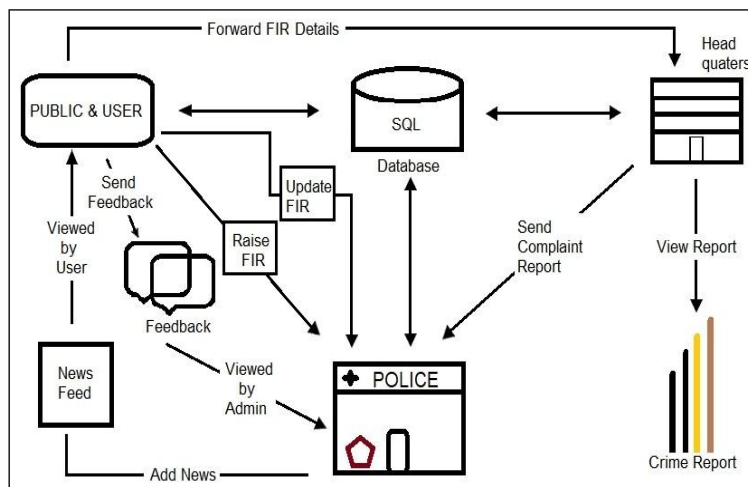


Fig. 1: Architecture Diagram

The above Fig. 1 shows the complete architecture of the system where the public and user file the complaint which will be

received by the police, the complaint information is stored in the database where the police can access the crime information

and then the police can update the complaint status in the system. The admin can update news feed in the system which can be viewed by the people of the society.

This system includes the given features and scopes like user login and admin login, Registration of a complaint, Checking the current status of a complaint, Managing the registration of a criminal, Managing general complaints, Managing the case history data, Managing the missing persons data, Displaying the list of most wanted criminals.

IV. MODULES

A. Registration Module

If a person has a complaint to file the complaint, then he/she must register before login on the system. After the completion of registration, the user can login into the system & report their complaint.

Fig. 2: Registration Module

The Fig. 2 shows the window of registration module where the user must be register with the system before they file the complaint, Here the admin also can register in order to view the complaint of the particular society where the user need to enter his/her name, email id, phone number, address and password in the registration form in order to get his own login id and password. After the successful registration then only the user can able to file the complaint.

B. Login Module

Every user must register with the system in order to file the complaint and submit the report. Once the registration of the user is completed then the user can able to login into the system by his own user id and password.

Fig. 3: Login Module

Here in this module Fig. 3 shows that the complainer should login the system with his own mail id and password in order to report the complaints to the officers, so the administrator also must register in the system with the required admin details to view the complaints.

C. Crime Module

The usage of this module is to entering all details about the crime where the name of the criminal, past crime history of the criminal, crime details, and photo evidence and the documentations are stored. This module can be viewed by both the user and the police in the system.

The Fig. 4 shows the crime module where all type of crime details has to be entered by the user, this module has a separate section of missing persons and also for missing vehicle where they can enter the details about the missed person/vehicle. The user can also upload an image of the missed person/vehicle which will help the officer to find the missed items and the peoples.

Fig. 4: Crime Module

D. Persons Missing Registration Form

In this module the user can report the missing person in the missing person registration form where they can specify the details about missed person. So that the officer can view the reported form and take action to find the missed person.

Fig. 5: Missing Person Registration

The Fig. 5 shows the missing person registration form where the user should enter his/her full name and they should enter their living address and they have to enter their contact number in order to contact with the complainer and registration form contains last seen date input box where the date of which the missed person lastly seen and upload the image of missed person and the user need to enter the detailed description of missed person like at last where he went, where he is working etc.

The user can upload an image of the missed person in the missing person form. Which will be checked by the officers and it will be displayed on missing person alert box.

E. Vehicle Missing Registration Form

In this module the user can report their missing vehicle like bike, car, etc., in the missing vehicle registration form where they can specify the details about missed vehicle. So that the officer can view the reported form and take action to find the missed vehicle.

The Fig. 6 shows the missing vehicle registration form where the user should enter his/her full name and they should enter their model number and they have to enter their contact number in order to contact with the complainer and the registration form contains last seen date input box where the date of which the missed vehicle lastly seen and upload the image of missed vehicle and the user need to enter the detailed description of missed vehicle like at last where he parked his vehicle, etc.

The user can upload an image of the missed vehicle in the missing vehicle registration form. Which will be checked by the officers and it will be displayed on missing vehicle alert box.

Fig. 6: Missing Vehicle Registration

F. Administrator Module

Here in this module the maintenance like removing the data which is old and outdated from the system, master data maintenance like Master Data Maintenance, Removal of old and outdated data from the software etc. are to be focused.

Status	Number Plate	Action
Missing	KBC	View
Found	KAC	View
Found	KAA 333U	View

Fig. 7: Administrator Module

The Fig. 7 shows the window of a administrator where the officers can upload an important news or information in the news feed section and the administrator of the system can able to view the reported crimes information of the user. The people who are not registered on the system they also able to view the news feed and aware of the police information but they cannot be able to view the reported crime data of the registered user.

V. IMPLEMENTATION

A. Xampp Server Installation

As the system can be access from both client side and server side so xampp is must for implementation of this system.

This system includes new features and the usage of bootstrap, jQuery,css are taken to design and make the user interface more attractable and user friendly.

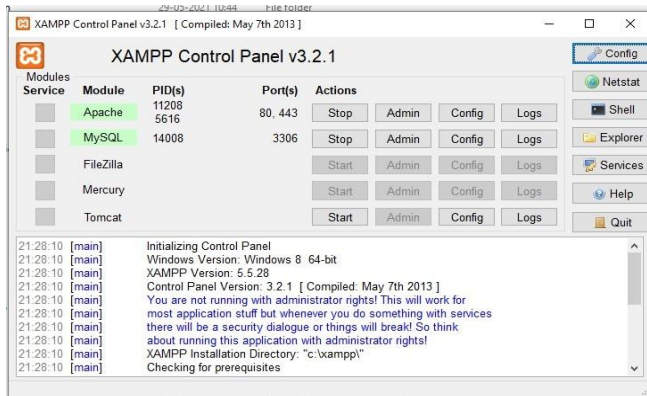


Fig. 7: Installation of Xampp

The Fig. 7 shows the screen shot of the installation of xampp on the system to run the system on xampp server first we have to install the xampp server and after the installation of xampp we have launch the required databases like Mysql, Apache, File Zilla, Mercury and Tomcat. In which the database which is required for my system work that we can launch and enable the features of that database.

B. Importing Sql Database

After the successful installation of xampp server a database must be created and if in the case of implementing the created database file then while creating the database on the xampp the name of the created database should be the same as the name of importing database file.

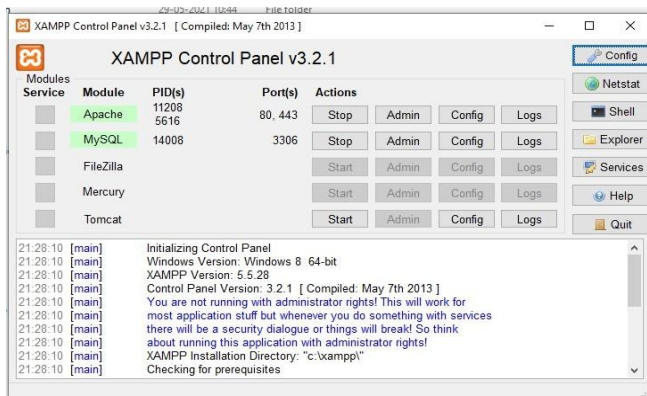


Fig. 8: Importing Sql Database in Xampp

After creating the database of the system the database source file station.sql. create a database in xampp as same name as db file station and then open the browser and go to phpmyadmin location.

Open xamp server phpmyadmin in a browser “localhost/phpmyadmin” and go to Mysql and select import option and import sation.sql database.

VI. CONCLUSION

Digital crime reporting system initiates the goal of providing the user with customized and effective complaint registration and process management system side software. The software is built with all choices such as complaint registration, prisoner’s registration, missing person reporting form, missing vehicle reporting form and most wanted criminals report generation etc... All the requirements specified throughout the process and design phase are completely met, as a consequence ensuing in the formation of good software.

The provided interface in this system is flexible and user friendly for all crimes. In the present days every manual work is becoming computerized. Usually the Manual work takes more time and difficult to manage. To provide an effortless complaining and managing the crime records this software is very productive. Thus this system overcomes the majority of limitations of the existing system along with being an application with user friendly.

VII. FUTURE ENHANCEMENT

In this paper a completely flexible and an integrated system is developed which can be used by the people and as well as the police, Where the website makes easier the updation of records for the user and as well as for the admin of the system and also providing an updated crime information which is in the status of currently happening.

In the future work the image processing algorithm can be implemented in order to detect the objects on photo evidence and also human face detection technology can be used to detect the criminal from the system database. And also adding the digital verification of citizenship for passport and other work can be included in the system.

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