

Web Application for Crime Analysis

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Abstract

Crime Analysis is records management and analysis of the crime investigation system. A crime is an unlawful act punishable by some authority or some state. The goal of the project is to develop a reporting and management system that is easily made accessible to the citizen to lodge the complaints online, police department and the administrative department for analysis and start investigation as soon as the complaint has been registered. This is used to record crime information updated by station officer through a website online, which saves the time of the witnessed person and police can start investigation, faster, so that criminal can be punished as soon as possible and helps in reduction of the crimes.

Keywords: Web, Crime, offender, witness, investigation.

INTRODUCTION

A crime is an unlawful act punishable by a state or other authority. Crime is an illegal act for which someone can be punished by the government. As we know that there are many crimes that occur around where us. Generally many crimes seen by the public will not reach to the police due to many reasons like fear, lack of time, ignorance. Due to this reason many cases are not even reported to the police station. Though some cases are registered, they are not investigated properly. The problem with many of us is that, we will not worry about such things, because they may not be related to us or maybe we are afraid to go to police station and register the complaint. In both the cases, it is loss for citizen and also for the society. If we are not taking any action against illegal act happening around us, then in future, one or the other day we may have to suffer with such problems. To get rid of such problems citizens of the country must have to be alert and they should get ready to register the complaints. To make the work of the citizens easy, this website called "crime analysis" is helping the citizen by allowing them to register the complaints online through this website. This website helps

the citizens also to view the status such as whether the case is resolved or is it still pending, after registering it online.

The crime analysis website provides fully computerized framework for police department. It allows the police officer to register the complaint online instead of writing on a paper and make a separate hard file for each complaint. It is simply wastage of the paper and time, by doing the registration online including who has registered the complaint, against whom, what is the crime case and its description and status update. Such information can be viewed by the administrator and he/she can analyze the cases which are registered and their status. Administrator can take the particular actions about the cases. As a result the work is transparent to all, such as citizens, police department and administrators.

BACKGROUND

According to the Law, a citizen can claim a complaint for a noticable unlawful act.

Examples :

- Kidnapping,
- Robbery,
- Assault,

- Terrorism,
- Domestic violence,
- Gang violence,
- Murder etc...

For any of such unlawful act, a First Information Report can be registered by the sufferer of the offence or by someone else on her/his behalf. The complaint report can be made in writing or orally to the police. FIR is the first step towards registration of complaint so that police can start investigation of the crime once the FIR is been registered.

The current scenario is that the person, who has eye witnessed the happening of unlawful act has to go to a Police Station to tell regarding the proceedings and claim a complaint. A physical presence of the person is needed from the place of offence to the police station. Many times it happens that important information regarding the criminal is missed out by the victim because of this commute. Moreover the main problem is the availability of police station nearby. If police station is far away from the commencement of crime, then it requires more time for a person who has witnessed the crime to get to the station and register the complaint. Though in India there are systems existing in some of the states to register complaints online but the systems will not allow the person who has registered the complaint to view his complain status. This is one of the major drawbacks, because if the person cannot see his complaint status online then he/she needs to go to police station for enquiry of proceeding.

RELATED WORK

The informant/ complainant should go to the police station having jurisdiction over the area (where the offence is committed) and report to *officer in-charge/ station house officer*. In case information is given on telephone, the informant / complainant should subsequently go to the police station for registration of F.I.R.[1].

This feature is made available to public for interaction with police indirectly. This system registers the complaints from people through online and is helpful to the police department in identifying criminals. In this system any person can register their complaint online. The aim of this project is to develop an E-cops reporting and management system which is easily accessible to the public, police department and the administrative department [2].

Disadvantages of existing systems are

- Wastage of time and paper.
- Misplace of complaint paper can lead to negligence of the police department.
- No user authentication is provided.
- Publically complaints can be viewed thus they provide no security and privacy, means anybody's complaint can be viewed by any other person.
- No status information, means complaint is still pending or is it solved? Such information is not made available to the person who has registered the complaint.

To overcome all these disadvantages or problems of existing systems it is necessary to develop a system which will help the people to register the crime complaints online and can view their status regarding whether it is pending or solved without anybody's fear and help in making the country free of crime.

SYSTEM

Features of proposed system are:

- It helps citizen to register complaints online without anybody's fear.
- View complaint status such as the complaint registered is pending or solved.
- User authentication to avoid fake complaints.
- Admin can analyze the cases.

The proposed system crime analysis includes mainly four modules. They are :-

- Admin
- Station admin
- Employee
- Citizen.

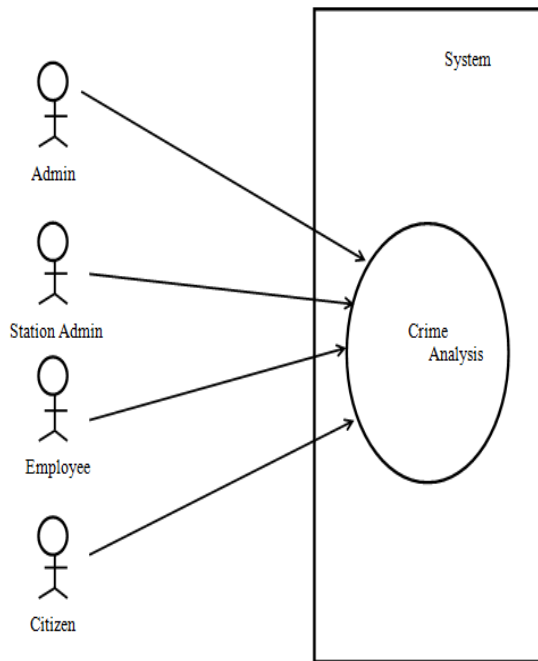


Fig 1: System Design

Admin Module Architecture

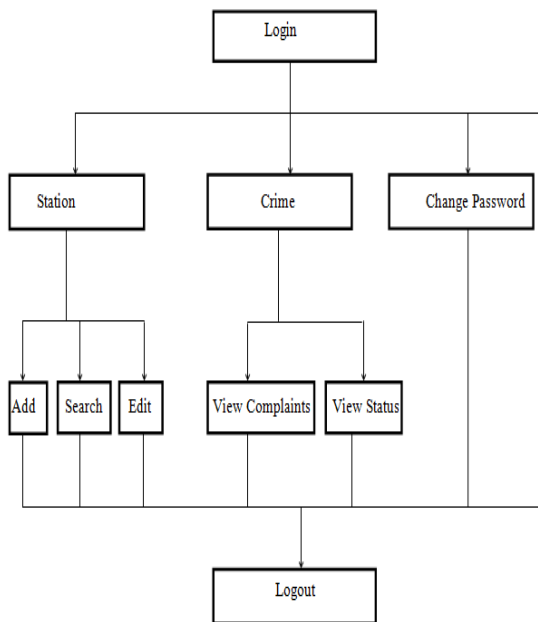


Fig 2: Admin Module Architecture

As shown in the fig2 Admin module architecture initially the admin has to first login to the system. Admin can login with Id and Password. Admin can add new station. Station Id is the unique Id. Admin can add the required information that are station name, contact number, email, area, city, district and password, then the new station will be added. Admin can view the stations list that are existing and search a particular station by its name, and Admin can also edit the station profile details. Admin can view the complaints that are registered. Admin can view the complaint status means whether the complaint is pending or solved. Admin can change the password. Finally admin can logout.

Station Admin Module Architecture

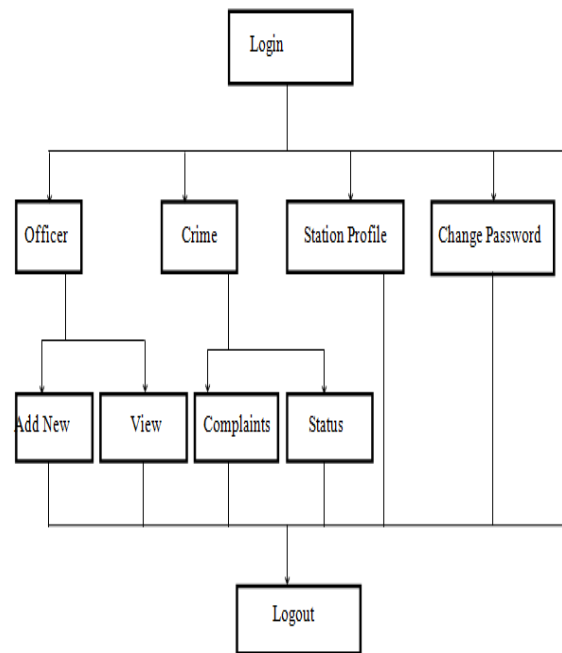


Fig 3: Station Admin Module Architecture

The station admin can get access to system by logging into the system by entering particular station Id, Password and selecting appropriate station name. If station admin has forgotten the password then he/she can get it by providing the email Id and station name. Then the password will be mailed to email and then the station admin can login. Station admin can add new station officer by entering

required details such as officer Id which is unique, name of the officer, date of joining, gender, height, weight, email, contact, address and password. Station admin can view the list of officers and their details. Station admin can also view the station profile such as Id, station name, contact details. Station admin can view the complaints and details regarding who is registered the complaint against whom, which type of case is it and description. Station admin can also view the complaint status. Station admin can change the password. Finally station admin can logout.

iii) Employee Module Architecture

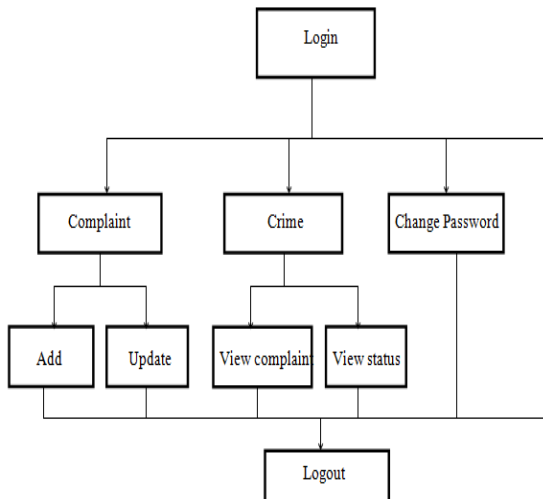


Fig 4: Employee Module Architecture

Employee can log in by entering Id, password and selecting station. If employee has forgotten the password then he/she can get it by providing the email Id and station name. Then the password will be mailed to email and then the station admin can login.

Employee can update the status of complaint (pending or solved) and can print the complaint. Employee can view the complaints and details regarding who is registered the complaint against whom, which type of case is it and description. Employee can also view the complaint status. Employee can change the password.

Finally employee can logout.

Citizen Module Architecture

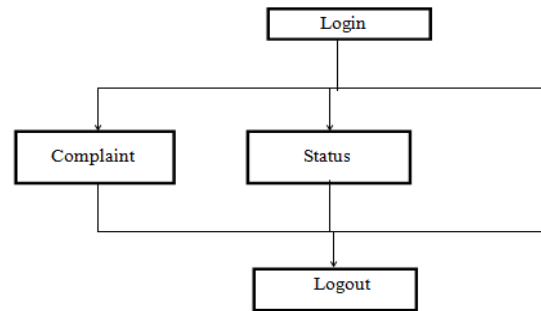


Fig 5: Citizen Module Architecture

Citizen can register the complaints but before registering the complaint the citizen has to register himself/herself by entering details such as name, gender, email, contact, address, password, profile image, aadhar number. If citizen has forgotten the password then he/she can get it by providing the email Id. Then the password will be mailed to email and then the station admin can login. Citizen can view the status of complaint by entering the complaint Id, station name and clicking on submit. Then citizen can logout.

RESULTS

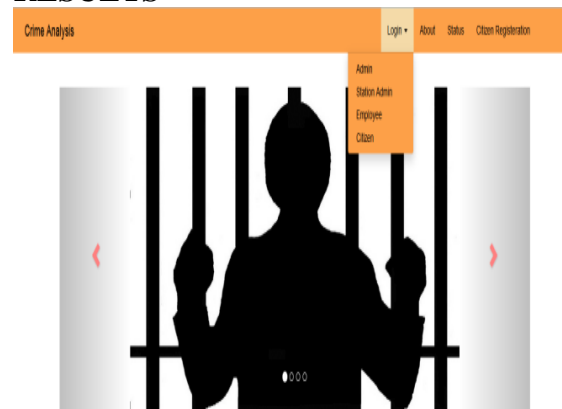


Fig 6: Main Page

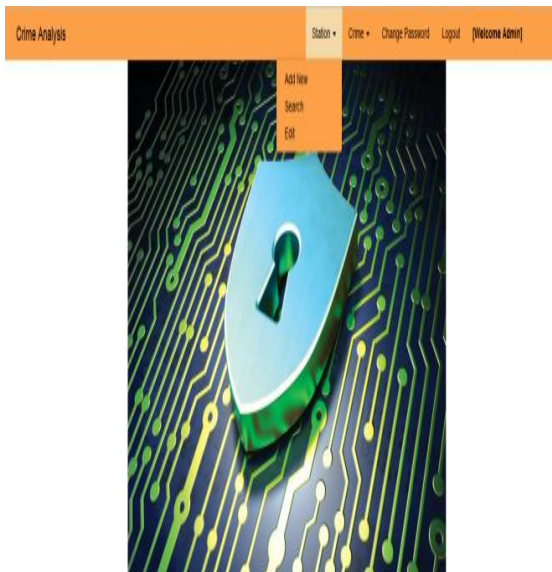


Fig 7: Admin page



Fig 10: Station admin log in

Sl.No	Complaint Id	Station	Date	By	Against	Case	Contact	Description
1	304376	Tiakwad Station	20-05-2016	ram	shaam	kidnap	0740048019	my son is been kidnapped
2	334418	Tiakwad	2017-03-04	aaa	bbb	robbery	9076543210	flyth dthik dhtdtkdtkf
3	300308	Tiakwad Station	2017-04-12	rajat	ram	kidnap	9076536306	my sister is been kidnapped
4	470972	Tiakwad Station	2017-01-09	ashok	sunil	murder	7638954749	there is a murder happened at circle
5	563983	Tiakwad	2017-03-01	aaa	bbb	accident	9076543210	ghj
6	733004	sakshinagar	2017-04-16	aa	bb	aaa	9449182163	aaaa
7	754086	sakshinagar	01-09-2017	raju	sham	kidnap	0740048019	my sister is kidnapped
8	907656	Tiakwad Station	2017-05-10	shrut	keerti	kidnap	7065480754	my brother in law is been kidnapped

Fig 8: Complaints viewed by admin

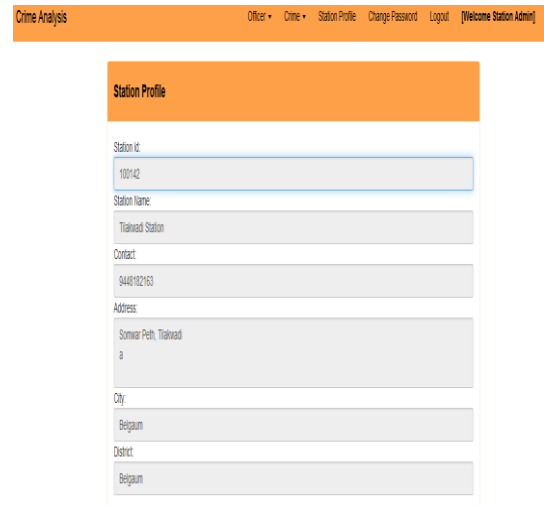


Fig 11: Station profile

Crime Analysis Complaint Crime Change Password Logout [Welcome Officer]

Status: Pending

Search

Sl.No	Complaint Id	Station	Date	By	Against	Case	Contact	Description
1	304376	Tiakwad Station	20-05-2016	ram	shaam	kidnap	0740048019	my son is been kidnapped
2	300308	Tiakwad Station	2017-04-12	rajat	ram	kidnap	9076536306	my sister is been kidnapped
3	470972	Tiakwad Station	2017-01-09	ashok	sunil	murder	7638954749	there is a murder happened at circle
4	907656	Tiakwad Station	2017-05-10	shrut	keerti	kidnap	7065480754	my brother in law is been kidnapped

Fig 9: Complaints viewed by Employee

SOFTWARE/TECHNOLOGY USED

WAMP: WAMP withstands for – “Windows, Apache, MySQL, and PHP”. It is used for web development and internal testing.

PHP :PHP is used because of its features, as it can handle forms, gather data from files, save data to a file. One can add, delete, modify elements within database using PHP. Using PHP, one can put restriction on users to access some pages of website.

JAVASCRIPT :It is a scripting language often used for *client-side web development*. JavaScript is used to add interactivity to HTML pages.

BOOTSTRAP :It is a powerful front end framework for faster and also easier web development. Bootstrap includes HTML and CSS based templates designs for commonly used user interface components.

CONCLUSION

This project will help citizens to register complaints online, check their status whether it is pending or solved by reducing a burden of writing complaints manually by going to police stations. Registering aadhar card number of users will provide true identity of the user. This project also helps administrative authority to view the complaints registered in particular station and see the complaint status whether they are solved or pending, if they are pending from long time admin can take further actions regarding those complaints and officer who is handling that complaint. This also helps in analyzing the crime that are happening by keeping the records.

FUTURE SCOPE

This project can be enhanced and implemented in real-life by introducing more level of security for the data using encryption and decryption techniques. Also can use aadhar number with the permission of respected authority, to detect fake complaints given by people.

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