

Centralized Crime Record Management System in India (Sarvashakti)

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Abstract—Criminal activity has always been a part of human culture, and even today, many different kinds of crimes are still committed around the country in a world of highly sophisticated surveillance and police capabilities. The new framework extends to all or most police stations around the country to resolve this issue and addresses the subject of Crime Data Management exclusively. The accuracy of knowledge derived from existing databases and the ease with which it can be accessed determine the effectiveness of the police function and therefore the consistency with which it tackles crime. The system would be applied through states first, and interconnected so that a police officer could access data from all databases across the globe, making operations more effective. In order to get a vision of the distributed architecture along with centralized database storage, the project was designed accordingly. The XAMPP architecture will be used to build all of the user interfaces, which will be built using SQL server constructs.

I. Introduction

The Crime Reporting Management System (SarvaShakti) is a website/web application that connects all of the country's police stations and focuses on crime identification, prevention, and criminal convictions using a highly sensitive and well-disposed information management backbone. The productivity of the police and the effectiveness at which they intercept crime is determined by the quality of information they can receive from existing databases and how quickly they can access it. Through this website, the police's efficiency and the speed at which they intercept crime can improve, allowing them to reduce the time it takes to respond to a case as well as the time it takes to solve it.

A. Sections

- 1) Station section: First part of the station According to their respective regions, all stations must report on the website. Each station registers by providing information such as station name, address, phone number, pin code, station in-charge, and receiving a User Id from the website. If a prospective station has registered on the website, they will be able to access the current records.
- 2) Citizens section: Citizens who wish to file a FIR or file a complaint must first register as a user on the website. Each individual fills out their personal information, such as name, address, phone number, and email address, and receives a User ID and password from the website. After completing the registration process, citizens can log in to the website and file a complaint.
- 3) Record section: This section is where you can fill in all of the information about the crime. It includes information such as the police station where the incident was reported, the date and time, the location, the nature of the crime, and the location of the crime, among other things.
- 4) Search section: In this section, we may check for crimes by station/region and type of crime in this section. The user will use this search module to look for their specific complaint.
- 5) Progress section: Users can use this section to track the progress of their individual complaints, while Stations can use this section to track the progress of all complaints filed at the station.
- 6) Administrators section: This section will be protected and only available to the administrator. This section will be password-protected and only the administrator will have access to it. Ordinary website users will not be able to access this section of the website. The section will concentrate on maintenance tasks such as master data maintenance, data removal from the website, and so on.

7) Avocation section: This section covers the legal aspects of each crime.

II. System Analysis

System analysis is an essential stage in the phase of system creation that works with users to define objectives and construct structures to achieve them. The system analyst assumes the part of an inquisitor and lodges profoundly into the current system's workings. An in-depth review of certain tasks conducted by a system and their interactions inside and beyond the system's doors is completed in the research. Major objectives of system analysis are, "Why can we need this system? What must be the solution to this problem?, How this system will be better?" One part of the research is to identify the system boundaries and decide whether the applicant system should be considered or not. The process is used in its entirety, and the system's inputs are thus described. By varying the processing of the input steps, the method's outputs can be tracked within the enterprise. The knowledge about open files, decision points, and transfers handled by the current system is gathered during the review. Once the study is completed, the analyst has a clear understanding about what to do. Understanding the problem, recognizing the necessary and decisional variables, analyzing and synthesizing the various factors, and evaluating an optimal or minimum viable solution or action plan are all part of system analysis.

III. Existing Systems

In the existing system, many of the operations are done manually like filing first incident report (F.I.R), taking actions with regards to the F.I.R, view status of the F.I.R etc. In the existing system if anyone wants to lodge a F.I.R against a crime he/she must do it by going to a nearest police station. Let's take example of a mobile application named as Hawk Eye, it was developed by IT cell of Telangana state police. It is very user friendly system where an individual can lodge a F.I.R, keep track of it and send a S.O.S signal. Another example is national cyber-crime reporting portal by National Crime Records Bureau. It is a web application through which an individual can report a cyber-crime or a crime against women/children. An individual can also report a crime anonymously.

1) Shortcomings of the existing system are listed below as:

The existing system is time taking and not so user friendly.

The existing system is monitored by state wise administration, there is no centralized crime record management system.

The existing system is very crime specific i.e. an individual can only report a report a cyber-crime or a crime against women/children.

The existing system that is the manual way to report a crime is not efficient and it takes a lot of man power. Even a hardworking officer might not able to handle more than one case at a time.

Keeping track of an already filed complaint is also a tedious task as the individual has to go to the police station for such enquires.

The existing system that is the manual way to report a crime is not very reliable because sometimes due to human error the files or F.I.R might get misplaced or lost which could lead to serious problems.

IV. Proposed System

The goal of the proposed system is to make the process of lodging and tracking the F.I.R hassle free for the citizens of India. The proposed system can overcome most of the shortcomings of the existing manual system. The proposed system provides better security and minimizes the manual work as well as it has user friendly user interface. This system provides transparency in the legal process of our country as it is built to avoid the unfair practices done in the process of a legal investigation. It provides

a reliable platform through which already registered case files would never get lost or misplaced. Moreover this proposed system is a centralized system for all Indians irrespective of their states.

1) Main advantages of proposed system:

The proposed system will help the user to avoid the tedious task of going to a police station for lodging and keeping track of their F.I.R. The proposed system will also help in regularity of police officers as there will be regular update of that F.I.R.

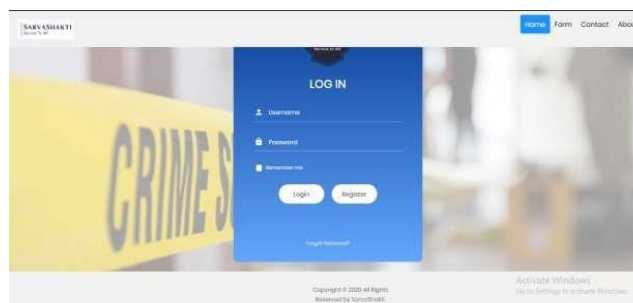
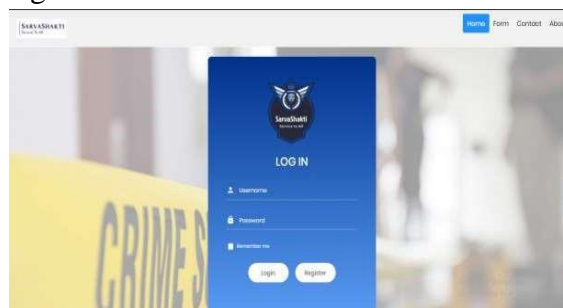
It will also help to allocate number of police officers that are to be assigned for different areas or cases. The proposed system will be better because there are many such cases which are filed but are miss placed or kept unnoticed due to which citizens face many problems as their case files get lost from the inventory of police systems.

The proposed system is a centralized crime record management system for all India, it is not a state specific system. The proposed system will have the option to lodge a F.I.R. regarding any incident unlike the existing system which are crime specific in their nature of use. The police will have a criminal database through which they can access the records anytime.

V. Snapshots

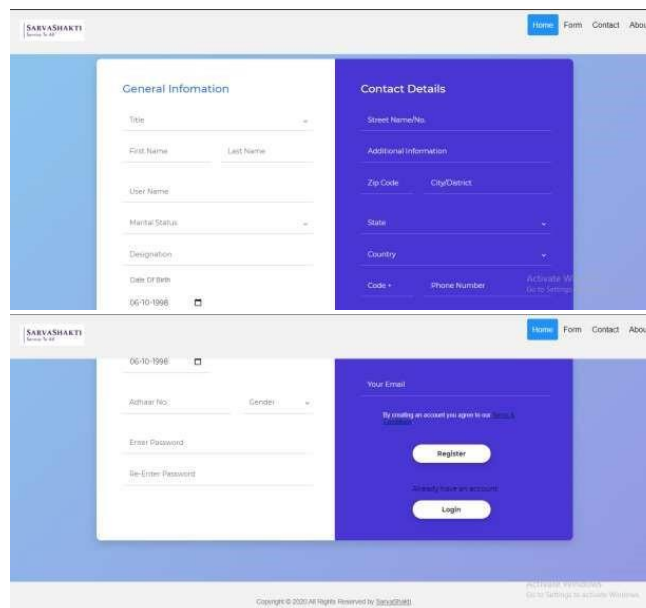
1. Login Page

The existing user can Login in into our site by entering his/her username and password which he/she has entered at the time of registration. If the user has forgotten his/her password then they can change it by clicking on “forgot password” field mentioned in the login page. Once the user have logged in our site he/she will be directed to our home page which consists of several other modules. There also an option to register on our website if the user has not registered for it. The user can only access our website only if he/she is having an account on our website.



2. Register Page

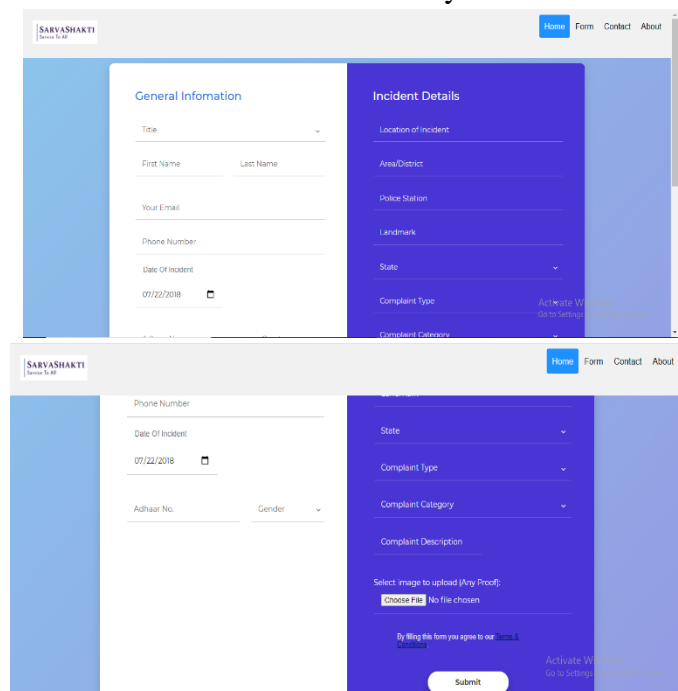
The user firstly have to register on our website to lodge an FIR or any case. The registration page consists of general information and contact details of the user where all the details will directly be added in the database in which username will be its primary key



3. F.I.R Form

The user can fill this form regarding F.I.R after the user log in to the website. The user can fill details regarding the place, time and date of the incident.

The user can attach a proof of incident like a video, audio or photo. This way we can check the authenticity of the F.I.R. The form consist all the necessary fields which are required in a F.I.R.



VI. Conclusion

The established website has proven to be productive and reliable. It leads to well-planned and prompt responses to suspected crimes. It is clear that the information can be gathered quickly and accurately. The website has been designed to be as user-friendly as possible, so that even a complete novice can operate it if he has a User ID and Password. The scalability of this website is a priority. When required, additional parts can be easily added. The website is designed in a modular fashion. All of the system's parts have been thoroughly checked for both legitimate and invalid data, and everything

has worked flawlessly. Partnership work is thought to be very helpful to the organization and to be the path forward in reducing crime and disorder. As a result, we would like to remind you that its community can completely validate partnership work, and we encourage you to give it the attention it deserves.

VII. References

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