Aishwarya Kurle¹, Archana U.kalas², ApekshaS.Naik³, Mafita C.Cardoz⁴, Shama Dessai⁵

^{1,2,3,4} Students, ⁵ Assistant Professor, Computer Science and Engineering Department, Visveswaraya Technological University, Belagavi Karnataka

Abstract: This is a web application designed to manage all police stations in a district. The system consists of four modules. The admin module, investigator module, user module and visitor module. User is the one who register complaint after login. Visitor is a user without registering he can view live news, helpline numbers and list of missing people. In a district all police stations are managed by the SP and he is the admin of this application. Complaints will be received by the investigator (PSI) of the police station entered by the user. If investigator is not able to solve that complaint, then he can forward that complaint to the Admin. Admin manages the complaints sent by the investigator and assigns cases to the higher investigator like CI, DSP etc. and admin will going to manage the police stations working under him. Investigator handles the cases assigned by the admin and solves it.

Keywords: Police Complaint, Investigator, Database, SP, CI, PSI, DSP

I. Introduction

The purpose of our project is to provide a 24×7 online service to register and manage the police complaint. These days, some people hangback to go to the police station because of various reasons like lifethreats, social stigma, negligence of police officers, hesitation etc. Normally, when crime takes place, people hangback to go to police station, feeling that a complaint can be a tiresome task or the police will not be cooperative. Generally one needs to visit the police station to file a complaint or an FIR. By making use of this application, the user physically need not to go the police station to register a complaint rather than he/she can easily file a complaint online. In some cases like major accidents, half murder, suicide attempt, some doctors may not allow the patient for immediate treatment. One should register the complaint first and then only doctors carryout the treatment. This is time consuming. In this type of cases patient may lose their life. This can be avoided by registering complaint online by our application. We have introduced an emergency help button, which allows the user to send the alert message to the nearby police station. Using this application one can view live news and also register the complaint even during night time.

This is a web application designed to manage all police stations in a district. The system consists of four modules. The admin module, investigator module, user module and visitor module. User is the one who register complaint after login. Visitor is a user without registering he can view live news, helpline numbers and list of missing people. In a district all police stations are managed by the SP and he is the admin of this application. Complaints will be received by the investigator of the nearest police station or police station entered by the user. If investigator is not able to solve that complaint, then he forwards that complaint to the Admin. Admin manages the complaints sent by the investigator and assigns cases to the higher investigator like CI, DSP etc. and admin will going to manage the police stations working under him. Investigator handles the cases assigned by the admin and solves it.

In some cases like major accidents, suicide, half murder some doctors may not allow the patient for immediate treatment. One should register the complaint first and then only doctors carryout the treatment. This can be time consuming, in such type of cases patient may even lose their lives. This can be avoided by registering complaint online by our application anytime anywhere.

Along with registering, managing and investigation of the case will also be done. If there are an updation in case details the user will be made aware by the investigator. Registering the complaint during emergency and night time is made easier. If the user is not satisfied by the work of investigator, he can directly send feedback to the Admin (SP).

The other applications of the proposed model are:

- View the list of missing people.
- View helpline numbers.
- View live news.
- Send alert message to the nearby police station in case of emergency.

II. Literature Review

This section shows the papers that are referred by us. We downloaded these papers from IEEE Explorer, ScienceDirect Sources. We also contacted some police officers to get complete details on how police department works.

A Public crime reporting and monitoring system model using GSM and GIS technologies: A case of Zambia police serviceproposed by MwangalaMwiya, Jackson Phiri, Gift lyoko. [1].Goal of this project is to provide efficient communication between police and public. By creating an account in this application or by pressing the hot button one can report a crime. After pressing the button, police officers receives the phone number of crime reporter and crime reporter receives the phone number of the police station. This application is only to register complaint. They have not included the further procedures after reporting crime.

An E-police system based on android application for enhancement of services of developing countries. proposed by Dr. Ayesha Butalia, NilofarM.Shaikh,AvezQuadari, Roshan Undirwade, NahidPathan.[2] . Their goal is to build up an E-police reporting and administration framework which is effortlessly available to people in general, police division and the managerial department. They planned to give complete electronic data framework support for the work of the police. This framework enrolls the prumbling from individuals through online and is useful to the police division for further process. An user can file the complaint directly without registering himself on the application because registration process wii take time. Without registering one can simply view the complaints filed from this application by anyone. Admin will going to manage the members and crime details. Their is no alternative to report a crime during emergency like hot button.

A Mobile application interface to register citizen complaint proposed by DhavalGherwada, Vipulshah,Deepshah, prof.HarshN.Bhan [3]. In this paper, they introduced an Android application to register complaint online to any department that takes complaint like police station, traffic, electricity department etc. Server receives the request through this application form citizen and it will contain unique id for each department based on id server forward that complaint to the respected department. They designed this application for Mumbai City. When citizen register complaints, the system generates complaint number and displays it to the user on his mobile phone.

An Enhancement in existing CCTNS (Crime and Criminal Tracking and Network System) system proposed by Riya B.Agarwal, NiveditaU.Singh, ShubhamA.Upadhyay, ShrutilP.Awari, SachinA.Thanken [4]. This system consists of 2 portals i.e. Citizen and administration portal. Both citizen and administration have to login through their unique id such as adharcard, PAN card etc. Citizen can claim their FIR and other complaints via their respective login id. They can upload evidences like fingerprints, audio, video, location, images etc. Complete crime and criminal records are being stored in administrate.

A Crime Records Management System proposed by Anu Sharma, Mohd. Shahnawaz [5]. The proposed system applies to all or any Police stations across the country and specifically looks into the topic of Crime Records Management. 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 info has been planned. Using the constructs of SQL server and every one the user interfaces are designed using the DOT Net technologies.

An Online complaint management system proposed by OsmaNasr,EnayatAlkhider [6]. It provides a web way of solving the issues faced by the general public by saving time and eradicate corruption. It makes complaints easier to coordinate, monitor, track and resolve. It provides company with an effective tool to identify and target problem areas, monitor complaints handling performance and make business improvements. This is a management technique for assessing, analyzing and responding to customer complaints. It is not allow the user to remove their crime report and to change their profile,

Result View Original A Grid Based Authentication for Online Crime Reporting System proposed by NaikwadeVarsha, NanawareSnehal, Pansare Snehal, BaviskarAmol [7]. The main goal of this project is to make a crime reporting procedure easy for citizens and to implement a software application for the police department to maintain their data more efficiently and improve work efficiency of the department. In existing system, police department uses manual methods for storing data and processing criminal information which is time consuming process.

A Smart Card Based Online Complaint Registration proposed by S.Yogeswaran, M.Yoganathan ,V.Sangeetha [8]. The paper presents a thought to implement a web complaint registration through open-end credit . People go to Government offices to file complaints about their needs. For a standard man, this process may be a tedious one and also they ought to undergo lot of paper works to commence their needs .In order to beat this, a web solution are often wont to file the complaints using smartcard, by which we will track the complaint status through internet.

III. Existing And Proposed System

- A. EXISTING SYSTEM
- Existing system is time consuming because one has to go to the police station to register complaints.
- Storing and maintaining large files manually is very difficult.
- Communication between users and constables require a lot of time.
- B. PROPOSED SYSTEM
- Registering complaints online is very easy during emergency or during night.
- Storing, maintaining and accessing of data of respective cases are done at a faster rate.
- Communication between users and police constables can be taken place easily
- Consists of a unique button called "HELP" that send the phone number of the victim to the nearby police station, Then the police will track their location by the use of service provider.

DESIGN OF THE PROPOSED ARCHITECTURE

The following figure depicts the system architecture of the proposed model.



Fig. 1 System Architecture of e-Rakshak Application

VISITOR MODULE

In case of emergency one can press the help button.

Can also view the live news.

Can also view the list of missing people.

Helpline numbers will be displayed in this module.



User can file a complaint. In case the user wants to take back his complaint it should be done within 24hours. Can Attach proofs like audio, video, images.

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Can give feedback to the higher authority. Can also rate the investigator in feedback section

Fig.3 User Module

C. INVESTIGATOR MODULE

- Create account.
- Receive complaint from the user.
- Contact user regarding the cases.
- Maintain the details of criminals and missing people.
- Forwards complaint to the admin.



Fig. 4 Investigator Module

D. ADMIN MODULE

- Receive complaint from investigator.
- Assign cases to the higher investigators like CI, DSP etc..
- Receives feedback about investigators directly from users.
- Manages police stations working under him.



Fig. 5 Admin Module

IV. Development of Proposed System



Fig. 6 First Page of the Application

This is the First Page of the Application which just displays the name. It is a flash page of 3-5 seconds.

e-RAKSHAK AN EFFORTLESS WAY OF POLICE COMPLAINT REGISTRATION, MANAGEMENT AND SECURITY	
Enter Mobile No. Enter Clear	
Copyright © e-RAKSHAK 2020 by Aishwarya, Archana Apeksha, Mafita	

Fig. 7 Enter Mobile Number Page

After loading the flash page, the above page is displayed where user have to enter his/her mobile number while entering into the application.

e-RAKSHAK AN EFFORTLESS WAY OF POLICE COMPLAINT REGISTRATION, MANAGEMENT AND SECURITY
VISITOR VISE
Copyright © e-RAKSHAK 2020 by Aishwarya, Archana, Apeksha, Mafita

Fig. 8 Four modules and the help button

After entering the mobile number, the above page is displayed which consists of four modules and one help button for emergency purpose.

A.VISITOR MODULE

e-RAKSHAK AN EFFORTLESS WAY OF POLICE COMPLAINT REGISTRATION, MANAGEMENT AND SECURITY
NEWS VEW MISSING PEOPLE
HELPING CENTER
Copyright © e-RAKSHAK 2020 by Aishwarya, Archana,Apeksha, Mafita

Fig. 9 Visitor module functionalities

This page is displayed when clicked on visitor module. Visitor is the person using this application without login. They can use these three functionalities: live news, list of missing people and helpline numbers.



Fig. 10 News Page

This page displays live news from different channels. People can watch it according to their language preference.

		Y OF POLICE COMPLAINT REGISTRATION, AGEMENT AND SECURITY
HOME	LOGOUT	
		Missing Details
		Chuck Details
		Check Details

Fig. 11 Missing people Page

When clicked on missing people, the above page will be displayed. Here the visitor can view the images of missing people and can also click on 'check details' for viewing more information about the missing people.

e-RAKSHAK AN EFFORTLESS WAY OF POLICE COMPLAINT REGISTRATION, MANAGEMENT AND SECURITY				
	HOME	LOGOUT		
			Missing People Name: aishuh Age: 20 CRy: ankola Addrass: kakamat Contact No: 4455566666	
			Copyright © e-RAKSHAK 2020 y Aishwarya, Archana,Apeksha, Mafita	

Fig. 12 Missing people details

Details displayed about the missing people after clicking in 'check details'.

e-RAKSHAK AN EFFORTLESS WAY OF POLICE COMPLAINT REGISTRATION, MANAGEMENT AND SECURITY INDIAN HELPLINE NUMBERS				
	Air Ambulance	08012345609		
	NATIONAL EMERGENCY NUMBER	112		
	POLICE	100		
	FIRE	101		
	AMBULANCE	102		
	Disaster Management Services	108		
	Women Helpline	1091		
	Copyright © e-RAKSHAK 2020 by Aishwarya, Archana,Apeksha, Mafita	1		

Fig. 13 Helpline numbers

Visitor can also view the helpline numbers like fire, ambulance, police, etc in case of emergency.

USER MODULE

e-RAKSHAK AN EFFORTLESS WAY OF POLICE COMPLAINT REGISTRATION, MANAGEMENT AND SECURITY			
HOME	LOGIN		
	Login Form Userld aishuk@gmail.com Password Login Clear		
	Copyright © e-RAKSHAK 2020 by Alshwarya, Archana,Apeksha, Mafita		

Fig. 14 User login form

The above page is displayed when clicked on User Module, where the person should create an account and login successfully to access the functionalities.

AN EFF	ORTLESS WAY OF	AKSHAK POLICE COMPLAINT REGISTRATION, ENT AND SECURITY
HOME		
		FEEDBACK
	Capyrigh	© = RAKSHAK 2020 Iya R.C.D
		- 1 1. Construction

Fig. 15 User module functionalities

User Modules provides these four functionalities: Register Complaint, Complaint Status, View Investigator and Feedback.

IOME	LOGOUT	
		Upload Form
	Com	plaint Registered Successfully
	Select Crime: Select City: Select Location: Select Police Station Description:	Select Crime
	Upload ID Proof: Attached Proof:	Choose File No file chosen Choose File No file chosen Submit Clear

Fig. 16 Complaint registration form

The above page is displayed when the user clicks on register complaint. Here the user can register complaint online, without even stepping out of the house. They have to just fill the details given in the above form and submit it.

HOME		
	Complaint Status	
	Complain No. CMP: 191126 User Id: aishuk@gmsal.com Date: 202007/02.17.50.44	
	Crime Dowry Description: rtgyt City mult	
	Location: Kunta Police Station: Golarna police station Status: peeding	

Fig. 17 Status of the complaint

The user can also check the status of their complaint whether it is solved or pending.

AN EFF		e-RAKSHAK Y OF POLICE COMPLAINT REGISTRATION, AGEMENT AND SECURITY
HOME	LOGOUT	
		Investigator Status
		Complain No. CMP: 157801 Investigator Name.sumit Designation: PSI Contact No.: 9686832434 Email ID.: sumit@gmail.com
		Copyright © e-RAKSHAK 2020 by Aishwarya, Archana Apeksha, Mafita

Fig. 18 Investigator Status

After registering the complaint user can view the investigator status that contains investigator details who received user complaint.

AN EFF	ORTLESS WAY	e-RAKSHAK OF POLICE COMPLAINT REGISTRATION, IGEMENT AND SECURITY
HOME	LOGOUT	
		Compliant Number 43657 Investigator Name isduk@gmail.com Rating
		Capyright & a SIACSHAK 2020 by a B.C.D

Fig. 19 Feedback form

The user can also give feedback about the investigator to the admin. They have to enter their complaint number, investigator name, ratings and the description and send the feedback which will be received by the admin.

ADMIN MODULE

AN EFF		e-RAKSHAK OF POLICE COMPLAINT REGISTRATION, GEMENT AND SECURITY
HOME	INVESTIGATOR DETAILS	
GPOLICE)		FEEDBACK
		Copyright © e-RAKSHAK 2020 Aishwarya, Archana,Apeksha, Mafita

Fig. 20 Admin module functionalities

This page is displayed to the Admin. Admin can either view the police station or receive the feedback from the users and can view the investigator details.

HOME			ATOR DETA	NLS	LOGOUT					
				Inv	vestigator I	Details:				
Username	DOB	City	Location	Join Date	Email	Mobile	Police Station	Designation	Status	
sumit	2020-07-04	Sirsi	Yellapur road	2020- 07-29	sumit@gmail.com	9886832434	Rural police station	PSI	approved	Chnage
sam	2020- 07-03	Sirsi	Yellapur road	2020- 07-29	sam@gmail.com	8095286693	Rural police station,Sirsi police station,	CI	approved	Chnage
san	2020- 07-02	Sirsi		2020- 07-29	san@gmail.com	9988776655		DSP	approved	Chnage
archu	1995- 06-09	Ankola	Ankola near bus stand	2019- 05-22	archu@gmail.com	4455566666	Ankola police station	PSI	approved	Chnage
archuu	1999- 08-09	Kumta	Kumta HO	2020- 07-09	archuu@gmail.com	4455566666	Ankola police station,Chittakula police station,Kumta town police station,	CI	approved	Chnage
mefi	1995- 09-05	Karwar		2020- 07-12	aishu3@gmail.com	8977567854		DSP	approved	Chnage

Fig. 21 Investigation Details Search form

After registration, investigator can't login because a request will be sent to the admin about investigator registration. After accepting the request by the admin investigator can login. The above figure shows the login requests with investigator details.

		AN EFFOR	RTLES			e-RAK POLIC	E CC	MPLA			EGISTRATI	ON,
	нс	DME I	NVESTIGA	for det/	NILS	LOG	JUT					
5	elect 🗸	View				File D	etails					
	Claim ID	Email ID	Date	Claim	City	Location	Police Station	Status	ID	File	Action	
	CMP: 140099	aishubn@gmail.com	m 18- 08- 2020 07:00	Dowry	Karwar	Kodibag	karwar town police station	pending	ID	Eile	Forward Cl Select Request Forward Cl Forward DSP Incomplete Close	Process
						pyright © e-R warya, Archai						

Fig. 22 Complaint Lists

When the Admin clicks police station image the above page will be displayed where he can view the all cases and assign it to some different higher level officers.

	HOME	INVESTIC	GATOR DET#	كاله	LOGOU	г					
Accepted	View										
Select Solved					File Det	ails					
Accepted Pending	2						1.0272.01	1.00	-		1
Closed	Email ID	Date	Claim	City	Location	Police Station	Status	ID	File	Action	
			Domestic	Ankola	Ankola near	Ankola	Forward	ID	File	Select Request 🗸	Process
CMP:	aishu1@gmail.com										
CMP: 163173	aishu1@gmail.com	08- 2020	violence		bus stand	police station					
163173		08- 2020 19:58	violence	1/		station		10	-	(a a	
	aishu1@gmail.com aishu1@gmail.com	08- 2020 19:58		Karwar	bus stand Sadashivgad		Accept	ID	File	Select Request V	Process

Fig. 23 Complaint Lists

Here admin can view the cases by selecting options solved , accepted, pending and closed. **INVESTIGATOR MODULE**

e-RAKSHAK AN EFFORTLESS WAY OF POLICE COMPLAINT REGISTRATION, MANAGEMENT AND SECURITY
Please Select Your Designation Designation: PS Enter Clear DSP
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Fig. 24 Investigator Designation Choosing Form

In this page the investigator has to enter their designation before registration. A different registration page will be displayed to PSI, CI and DSP based upon their designation because the PSI manages one Police Station, CI manages two or more Police Stations and DSP manages more Police Station from two or more cities.

AN EFF	ORTLESS WAY	E-RAKSH	DMPLAINT REGISTRATION,
HOME	REGISTRATION	LOGIN	
	Inve	Aame: DOB Select City: Select Location: Select Police Station: Designation: Vear Of Joining: Vear Of Joining: Mail:	aishum 02 - 02 - 1995 Ankola v Ankola police station v PSI v 02 - 07 - 2020
		Mobile: Password: Confirm Password: Sign Up	8977667854
	ьу	Copyright © e-RAKSHAK Aishwarya, Archana,Apeksł	

Fig. 25 Investigator registration form

The above page is investigators registration page. The investigator must register by selecting the police station that is working under him and login to their account.

	e-RAKSHA F POLICE CO EMENT AND	OMPLAINT REGISTRATION,
Circle II	nvestigator Re	egistration
	Name: DOB Select City: Select Police Station: Designation: Year Of Joining: Mail: Mobile: Password: Confirm Password:	aishub@gmail.com Id - mm - yyyy Honnavar National Highway 66 Honnavar police station Id - mm - yyyy Id - mm - yyyy
	Copyright © e-RAKSHAK 2 shwarya, Archana,Apeksh	

Fig. 26 Circle Inspector registration form

The above page is Circle Inspector registration page. The circle inspector must register by selecting two or more police stations that are working under him and login to their account.

MA	e-RAKSHA WAY OF POLICE CO ANAGEMENT AND	OMPLAINT REGISTRA SECURITY	ATION,
	Name: DOB Select Cities: Designation: Year Of Joining: Mail: Mobile: Password: Confirm Password: Sign Up	avi@gmail.com	umta,Honnavar,
	Copyright © e-RAKSHAK by Aishwarya, Archana,Apeks		

Fig. 27 Deputy Superintend of Police registration form

The above page is DSP registration page. The DSP must register by selecting the one or more cities that are working under him and login to their account.

	e-RAKSHAK S WAY OF POLICE COMPLAINT REGISTRATION, MANAGEMENT AND SECURITY
HOME LOG	νιτ
	RECEIVE ADDRESSING COMPLAINT ADDRESSING PEOPLE RECEIVERANT RECEIVERANT ADDRESSING RECEIVERANT ADDRESSING RECEIVERANT ADDRESSING RECEIVERANT ADDRESSING RECEIVERANT ADDRESSING RECEIVERANT
	Copyright © e-RAKSHAK 2020 by Aishwarya, Archana, Apekaha, Mafita

Fig. 28 Investigator module functionalities

The above is displayed when the investigator logins successfully. Here there are five functionalities: Receive Complaints, Add Missing peoples, List of Criminals, News and Help.

File Details Claim City Location Police Status ID File Action CMP: aishub@gmail.com 28: Dowry Sirsi Yellapur Rural police file Select Request × Process CMP: aishub@gmail.com 28: Dowry Sirsi Yellapur Rural pending ID File Select Request × Process CMP: aishub@gmail.com 28: Domestic Sirsi Yellapur Rural pending ID File Select Request × Process CMP: aishub@gmail.com 28: Domestic Sirsi Yellapur Rural pending ID File Select Request × Process CMP: aishub@gmail.com 28: Domestic Sirsi Yellapur Rural pending ID File Select Request × Process	ł	HOME	L	OGOUT								
Claim ID Email ID Date Claim City Location Police Station Status ID File Action CMP: 157801 eishub@gmail.com 28- 00- 2020 Dowry 13.42 Sirsi Yellapur road Rural police station pending police station Ella Select Request × Select Request × Cobe Process CMP: aishub@gmail.com 28- 2020 Domestic Sirsi Yellapur road Rural police station pending police station Ella Select Request × Forward Process						File	Detail	s				
CMP: assnub@gmail.com 28- Dowry Sirsi reliapur road roural road roural police station pending LZ File Select Request Accept Forward Close Process CMP: alshub@gmail.com 28- Domestic Sirsi Yellapur Rural pending LZ File Select Request v Process		Email ID	Date	Claim	City		Police		ID	File	Action	
CMP: aisnub@gmail.com 26- Domestic Sirsi reliapur Rurai pending D File Process		aishub@gmail.com	08- 2020	Dowry	Sirsi		police	pending	ID	<u>File</u>	Select Request Accept Forward	Process
2020 13:42 station	CMP: 182112	aishub@gmail.com	08- 2020	Domestic violence	Sirsi	Yellapur road	police	pending	ID	<u>File</u>	Select Request ¥	Process

Fig. 29 Complaints received

List of complaints filed is displayed when the investigator clicks on receive complaints, where the investigator needs to accept the complaints . If he can't solve that complaint then he can forward it to the admin.

AN EFF0	ORTLESS WAY OF	RAKSHAK POLICE COMPLAINT REGISTRATION, MENT AND SECURITY
HOME		
	Add	Missing People
	Name: Age: City: Address:	alshu 49 ankola
	Mobile: Attached Pi	8977567854
		POST Clear
		right © e-RAKSHAK 2020 Irya, Archana,Apeksha, Mafita

Fig. 30 Add missing people

The investigator can also add the list of missing people, where the visitors can view the images and details about the missing people and inform the investigators if found.

AN EF	FORTLESS WAY O	e-RAKSHAK F POLICE COMPLAINT REGIST EMENT AND SECURITY	RATION,
	ADD CRIMINALS		
		Criminal Details	
		Check Details	

Fig. 31 Criminal List

The investigator can view the criminals added by different investigators and added by him.

e-RAKSHAK AN EFFORTLESS WAY OF POLICE COMPLAINT REGISTRATION, MANAGEMENT AND SECURITY			
	HOME	LOGOUT	
		Add f Name: Age: City: Address: Mobile: Attached Pict	Most Wanted Criminals
			Copyright © e-RAKSHAK 2020 Alshwarya, Archana.Apeksha, Mafita

Fig. 32 Add Criminals

The investigator can also add most wanted criminals to maintain their details for future reference.



Fig. 33 Help Requests

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The investigator can view the help requests from the user that contains user phone number and the time. Then they will contact service provider to track the location of that user by providing phone number.

V. Conclusion

The User Interface of it is very friendly and can be easily used by anyone. It also decreases the amount of time taken to write FIR details and other modules. All the details about any complaint, postmortem or any other criminal can be checked and can be saved. User need not go to the police station to register complaints. In some situations like emergency, life threats, social stigma, hesitation, negligence etc. user can easily register the complaint. Reduces man power, paper work and also time required to go to police station. Communication is made easier and faster between user and investigator. Visitors can easily get information about the crimes taking place. Police will be notified faster in case of emergency using help button. All the proofs will be securely stored so that police can easily use them for investigation. This application is developed for whole district where SP is the admin, PSI, CI, DSP are the investigators.

VI. Future Scope

This system is currently a web based project but we are focusing to expand it on IOS and android platform as well in the upcoming days. The other feature which can be incorporated into the application is a live chat option with the police.

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