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Crime Record Management System

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Abstract: The Crime Record Management System is a web-based application designed to improve the management of crime records across all police stations in the country. Effective crime prevention, detection, and conviction rely heavily on a responsive information management system. Therefore, centralizing information management in crime is proposed for the efficient sharing of crucial information among police stations. Initially, the system will be implemented in cities and towns and later interconnected to enable police staff to access information from all records in the state, ultimately helping to close cases faster. The system will also generate information for proactive and preventive measures to fight crime. The project will adopt a distributed architecture with a centralized database storage system, with high priority given to security and data protection mechanisms. The application is designed to handle various modules and their associated reports, produced in line with the administrative staff's applicable strategies and standards. In summary, the Crime Record Management System is a web-based application that aims to improve the management of crime records across police stations in the country. The system is designed to centralize information management, generate crucial information for crime prevention, and provide efficient and fast access to records. The project adopts a distributed architecture with centralized database storage, prioritizing data protection and security mechanisms while producing reports that align with applicable administrative strategies and standards.

Keywords: Crime, Centralized, Distributed

I. INTRODUCTION

The Crime Record Management System was created to address the shortcomings of the manual system currently in place. This web-based application aims to eliminate or minimize the challenges associated with the manual system. The application has been designed to minimize errors during data entry and provides error messages for incorrect data. The system is user-friendly and requires no specialized knowledge to operate. PHP and MySQL Database are used in this project to keep track of FIR, criminals, and victim details. Crime Record Management System has the following modules.

- 1) Admin
- 2) Police Staff
- 3) User(Who filed the FIR online)

II. LITERATURE SURVEY

Nowadays crime rates are increasing and the public is facing many security problems in society. When this happens, individuals feel vulnerable and require assistance to be protected. Even though many technologies have been introduced for Crime control systems. This application will overcome these concerns and provide a database for storing data.

Criminal records are now maintained via manual procedures, which is a less-than-efficient data system. There are chances of losing data. This application will resolve these issues and also offers a database for data storage. The current system utilized by the police department for prisoner information stores the name of the prisoners, information about the crime, the date of the FIR, the criminal's background, and the duration of the prison.

• Existing System-The current crime management system relies heavily on manual operations such as submitting complaints, taking action against crimes, and checking status updates. This means that individuals must report crimes to the police, and errors in data entry and cross-verification can occur, which can

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compromise the system's authentication. However, detecting these errors is a time-consuming process due to the manual nature of the system.

• **Proposed System-**The focus of this project is to enhance the organization's performance by addressing weaknesses and elevating standards. To ensure a fair evaluation, the report will primarily highlight areas that require improvement while acknowledging the benefits of collaborative efforts. The organization believes that partnering with others is crucial in reducing crime and disorder. As part of this effort, a proposed Crime Record Management System will automate and computerize all aspects of the process. The software has been designed for ease of use and can be managed even by those without technical expertise.

III. METHODOLOGY

Crime Record Management System is a system used for statistical purposes to categorize different types of criminal activity. It provides a standardized framework for collecting and analyzing data related to crime. The purpose of categorizing crimes is to facilitate the comparison and analysis of crime statistics across different countries and jurisdictions.

Various authorities such as police, prosecution, courts, and prisons collect data on crimes for their purposes. These authorities use their methods and techniques for recording and reporting crime data, which may vary depending on their operational requirements and legal systems. For example, police may collect data on reported crimes, prosecutions may track convictions, and prisons may record data on inmate populations.

The Crime Record Management System categorizes crimes into different types or categories based on their nature and characteristics. Common categories include violent crimes (such as homicide, assault, and sexual offences), property crimes (such as theft, burglary, and arson), drug offences, fraud, and other types of crimes (such as traffic offences, public order offences, and cybercrimes).

IV. PROPOSED SYSTEM

This is a police dashboard where the police can accept the absolute information using a login password. To access the online criminal management system, we need to Add on users (police office bearers along with the background screening agencies) and allocate their various levels of entitlements. Verify user login particulars and also make sure user level prerogatives to data. Stock as well as recover all the data about crime and criminals. Execute search tasks on the grounds of some defined standards. Execute crime inspection and analysis along with the statistics to generate adequate reports.

4.1 Mathematical Model

Let S be Whole system S= {I, P,O} I-input, P-procedure O-output Input(I)-I={Criminal Data} Where, Procedure (P)-P= {I, Using I System perform operations and Using PHP} Output(O)-O={system adds criminal records in the database and handles the case}

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Figure 3:Use Case (Police Module)

Figure 4:Use Case (User Module)

V. RESULTS AND DISCUSSION

A crime record management system using PHP and MySQL can be a useful tool for Police to manage and keep track of criminal activities in their jurisdiction. By using PHP and MySQL, the system can provide efficient data storage, retrieval, and management capabilities, allowing authorized users to easily access and update the database.

The system can also provide several features, such as user authentication, data entry, search, and reporting. These features can help Police quickly and accurately retrieve information about criminal activities, suspects, and victims, which can assist them in their investigations.

However, the success of the system relies heavily on its implementation, maintenance, and security measures. Proper training and education of system users, regular backups, and security measures to prevent unauthorized access are crucial to ensure the integrity and confidentiality of the data.

Overall, a crime record management system using PHP and MySQL can be a valuable tool for Police to manage and analyze criminal activities in their jurisdiction, provided it is implemented and maintained properly.



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	Dashboard	👫 / Dashboard
🐔 Dashboard		
Police Station	Total Criminals	
Palice		(View All)
Crime Category	(ven al)	(1000.00)
View Criminals	Total Crime Categories Total Police Stations	
🔲 View FIR	C 5 (WW AR)	(view all)
	(New Au)	(vev as)
Q Search	Total FIRS	
	(View All)	



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chine Record Manage	ement	System User Faller	atrizograficar	~
favogation.	=	FIRForm	🙀 / Add / FiR.Form	<
🔄 FIR Form		Police Station *	Select Police Station *	
		Crime Type *	Choose Crime Type	
		Name of Accused *		
Q. Search		Applicant's Detail(Victim)		
		Name*		
		Age*		
		Contact Number *		
		Address*		
		Relation with accused persent		
		Purpose of applying copy of FIR*		
			Submit	

Figure 8: FIR Form (User Module)

		FIR Form			🕐 / View / HR Details		
Dashboard							
Criminals	~	FIR Number: 679647136					
8 AR		Complainer Details					
		Name	Atul Kumur Singh	Mobile Number	4562145230		
	ř	Empil	ati123@gmail.com				
	~	AR Details					
	~	Police Station	Rajnagar Extension GZBUP	Crime Type	Personal Crimes		
		Name of Accused	Mayur Phad	Name of Applicants	Hrushikesh K		
		Parentage of Applicant		Contact Number	1000000000		
		Address	Pune	Purpose of FIR	Car Accident		
		Relation with Accused	NA	Purpose of FIR	Car Accident		
		Date of FIR	2023-04-23 12:15:37	Final Status	Not Updated Yet		
		Police Remark	Not Updated Yet	Police Remark Date	Not Updated Yet		

Figure 9: FIR (Police Module)

		FIR Form					
		FIR Number: 679647136					
EEE FIR	ų.	Complainer Details					
		Name	Atul Rumar Singh	Mobile Number	4582145230	Email	ati123@gmail.com
Charge Sheet	Charge Sheet FIR Details						
	×	Police Station	Rajnagar Extension G2BUP	Crime Type	Personal Crimes	Nome of Accused	Mayur Phad
	v	Name of Applicants	Hrushikesh K	Parentage of Ap	plicant	Contact Number	100000000
		Address	Pune		Purpose of FIR	Gar Accident	
		Relation with Accused	NA.	Purpose of FIR	Car Accident	Date of FIR	2023-04-23 12:15:37
		Order Final Status	Your FIR has been ready for making chargesheet	Police Remark	Approved	Police Remark Date	2023-04-24 14:41:17
	Fill Chargesheet Detail(Only for officer)						
		Section of Law: Section of Law					
		Name of Investigation Officer : Rame of Investigation Officer					
		Investigation Detail :				1	

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Figure 10: Chargesheet (Police Module) DOI: 10.48175/IJARSCT-9469



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VI. CONCLUSION

The developed software has proven to be efficient and effective in taking timely action against reported crimes. It has simplified the process of obtaining accurate information, and its user-friendly interface allows even non-experts to use it with a login password. The organization values the benefits of partnership work in reducing crime and disorder. Additionally, the software's design allows for easy implementation of future changes. In summary, these observations suggest that the project's development has yielded positive results.

- Increased productivity can be achieved through complete automation of the system.
- The system offers an intuitive graphical user interface, which outperforms the current system.
- Access to the system is granted based on user permissions, ensuring appropriate usage by authorized personnel.
- Communication delays are effectively eliminated through system automation.
- Updating information becomes a simple and effortless process.
- System security, data security, and reliability are standout features of the system.
- The system has sufficient flexibility for future modifications if required.

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