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Blockchain Based Police Complaint Management System

Mandar Gujalwar¹, Abhishek More², Vinayak Khade³, Ganesh Falak⁴, Prof. Sarita Charkha⁵

Department of Computer Science^{1,2,3,4,5} PCET's Nutan College of Engineering and Research, Pune, India mandargujalwar1@gmail.com, kingabhi193746@gmail.com, vinayakkhade105@gmail.com@gmail.com, ganeshfalak01@gmail.com, saritacharkha@ncerpune.com

Abstract: The Police Complaint Management System (PCMS) is a decentralized application template designed to modernize the processes of lodging, tracking, and resolving complaints within law enforcement systems. Leveraging the Next.js framework, Web3 technologies, and blockchain integration, the system ensures tamper-proof complaint records, real-time updates, and enhanced transparency for citizens and authorities. By utilizing Wagmi and Ethers.js for seamless wallet connections, IPFS for decentralized evidence storage, and a user-friendly interface styled with Tailwind CSS, the PCMS provides a scalable, efficient, and accessible platform. With automated processes for complaint categorization and routing, as well as immutable blockchain records, the system fosters greater accountability and trust in public services. Built with TypeScript for reliability and enhanced with modular tools for rapid deployment, the PCMS exemplifies a modern, citizen-centric approach to grievance management, ensuring data security and operational efficiency in law enforcement agencies.

Keywords: AI Chatbots, Blockchain, Healthcare Management, Data Security, Patient Assistance, Smart Contracts, Data Privacy, Patient Engagement

