



G. Narayanamma Institute of Technology & Science (For Women) (Autonomous)

Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad
Accredited by NBA & NAAC, an ISO 9001:2015 Certified Institution
Shaikpet, Hyderabad-500104

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (DATA SCIENCE)

<GN-R-18> (2022 - 2023) II B.Tech II Sem Hobby Project

On

Crime Investigation Ledger on Blockchain

Abstract

In today's world, the security of sensitive information, such as criminal records, is of utmost importance. While traditional record-keeping systems have been in place for a long time, they often rely on a centralized databases and are prone to errors, data breaches and loss of data. These limitations pose a significant threat to the confidentiality and security of sensitive information in turn compromising the integrity of the investigation.

In this context, the emerging technology of blockchain offers a promising solution by providing a secure, transparent, and decentralized platform for authorized parties enhancing the efficiency and accuracy of the investigations. Blockchain is a revolutionary technology that uses cryptography and consensus algorithms to create a decentralized system that eliminates the need for intermediaries and reduces the risk of fraud and corruption.

The proposed project aims to develop a blockchain-based criminal record ledger system that leverages the features of Ethereum and Solidity. This system will enable law enforcement agencies, courts, and other stakeholders to create, update, and query criminal records through a web-based interface that integrates with the blockchain network and employs features like data encryption, digital signatures and audit trails. In summary, this project offers a more secure, efficient, and reliable solution for storing and managing criminal records, providing law enforcement with a valuable tool to help fight crime.

H/W & S/W Requirements

HARDWARE: Intel Core i5 or i7 processor, 8GB of RAM, 512 GB SSD, Docker.

SOFTWARE: Code editor: Visual Studio Code, Blockchain platform: Ethereum, Ethereum blockchain: Ganache, Solidity programming language, MySQL database, Additional libraries like Web3.js.

*Dept R&D: No

* If No: GNITS



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