**MODULES**

**User Authentication and Access Control:** This module ensures secure access to the system by implementing robust user authentication mechanisms. Access control features define user roles and permissions, allowing authorized personnel, such as law enforcement officers and administrative authorities, to access specific functionalities based on their roles.

**Criminal Record Creation and Updation**: The system includes a module for creating and updating criminal records. Authorized users can input new records or update existing ones with relevant information. The immutability of the blockchain ensures that once recorded, the data remains secure and unalterable.

**Blockchain Integration and Smart Contracts:** The core module involves the integration of blockchain technology, leveraging its decentralized and tamper-proof characteristics. Smart contracts are employed to automate and enforce business logic related to the creation, updating, and sharing of criminal records. These contracts facilitate efficient and secure transactions on the blockchain.

**Record Search and Retrieval:** This module allows authorized users to search for and retrieve specific criminal records based on criteria such as name, identification number, or incident details. The decentralized nature of the blockchain ensures that the information is easily accessible while maintaining security and integrity.

**Audit Trail and Reporting:** The system includes an audit trail module that logs all transactions and changes made to criminal records. This transparent and traceable record of activities enhances accountability and provides a basis for comprehensive reporting. Reporting features allow authorized administrators to generate insights into system usage and any modifications made to records.