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(57) Abstract :

Disclosed herein is an automated financial transaction processing system using blockchain technology comprises a blockchain network configured to record and verify financial transactions in a decentralized ledger, ensuring transparency, immutability, and security. The system includes a transaction initiation module that automates the creation and submission of financial transactions to the blockchain network. The system also includes a smart contract engine designed to execute predefined rules and conditions automatically upon transaction submission. The system also includes a consensus module integrated within the blockchain network to validate and confirm transactions through a distributed agreement process. The system also includes a transaction verification module responsible for cross-referencing and validating transaction details against blockchain records to detect and prevent fraudulent or erroneous transactions. The system also includes a reporting and analytics module that generates real-time reports and analytics on transaction activities.

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