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(57) Abstract :

The invention discloses a cloud-supported system for distributed online voting applications integrating cloud servers (102), encryption modules (103), blockchain ledger (104), multi-factor authentication (105), monitoring dashboards (106), and AI-based anomaly detection (109). The system ensures secure, scalable, and transparent electoral processes, providing fault tolerance, voter anonymity, immutable audit trails, and real-time oversight. Homomorphic encryption preserves confidentiality during tallying, while blockchain records ensure verifiable transparency. This invention offers a future-ready solution for secure, accessible, and trustworthy online voting across distributed environments.

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