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(57) Abstract :

The invention discloses a decentralized platform (100) for enhanced online identity verification using blockchain network (110), cryptographic module (120), biometric module (130), user identity wallet (140), and service provider interface (150). The system ensures secure, transparent, and tamper-proof verification by combining zero-knowledge proofs and biometric authentication. Smart contracts enable automated compliance, while selective disclosure preserves user privacy. The invention reduces dependency on centralized authorities, prevents fraud, enhances interoperability, and enables real-time identity validation across financial, healthcare, government, and e-commerce applications.

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