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(57) Abstract :

The present invention discloses a cloud-supported platform for secure multi-user data collaboration comprising secure cloud storage (101), AI-based conflict resolution engine (102), role-based access control system (103), audit trail manager (104), synchronization module (105), and user collaboration interface (106). The invention ensures real-time encrypted collaboration, intelligent conflict resolution, fine-grained role management, tamper-proof activity logging, and seamless cross-platform synchronization. It enhances security, compliance, and productivity for distributed enterprises, making it suitable for diverse industries requiring secure and efficient collaboration solutions.

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