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(57) Abstract :

The present disclosure relates to a system (100) for managing aircraft bookings using blockchain technology and artificial intelligence. The system includes a decentralized database (112) that connects to a blockchain network and an AI engine (102) with various modules. The system (100) verifies identity of passengers using biometric data, and generates tickets based on predetermined conditions and executes specified actions. The system stores data related to each aircraft, including manifests, trajectories, and luggage onboarding, on the digital ledger. The administrative module utilizes the digital ledger to streamline administrative procedures related to cargo handling, fuel management, and maintenance, while the revenue calculation module calculates revenue distribution based on a predetermined set of criteria. The system also includes a data storage module to store data related to loyalty programs, lodging, ground transportation, and non-airline-related services.

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