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(57) Abstract :

An IoT-enabled attendance monitoring device (100) is disclosed, incorporating fingerprint sensor (101), facial recognition camera (102), GPS module (103), and communication module (105) for secure multi-factor authentication. The device features offline caching (107), real-time clock (104), and AI-based spoof detection (108). Logs are transmitted to a remote HR server (110). The system ensures accurate, tamper-proof attendance tracking in remote work environments with seamless cloud integration, portability, and energy-efficient operation.

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