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(57) Abstract :

The present invention discloses an IoT-based framework for smart home security management integrating motion sensors (101), cameras (102), smoke detectors (103), gas sensors (104), IoT gateway (105), cloud analytics module (106), smart locks (107), and user interface (108). The invention ensures real-time monitoring, intelligent decision-making, and automated responses to security threats. By combining edge computing and cloud analytics, the system reduces false alarms, enhances cybersecurity, and provides scalability for future devices. The framework ensures robust protection, adaptability, and convenience, making it an effective solution for modern smart home security.

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