

Office Access System using RFID and Smart Lock

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Abstract: *The RFID Door Access Control System ensures the security and dependability of numerous secure medical and scientific facilities, official premises, and locker rooms that house confidential files, granting access only to restricted individuals. The system combines various access methods and fortified security measures, ensuring convenient user access while remaining in-penetrable to unauthorized individuals. This research paper aimed to design a prototype of 3-layer authentication security system based on a solenoid door lock, 4x4 Keypad, RFID cards, Relay Module, 16x2 LCD, ESP32 micro-controller, RC-522 Reader module, and Blynk application. The project focuses on designing and implementing a robust system that integrates RFID technology with smart locks to grant authorized personnel access to numerous sections within the office premises.*

Keywords: RFID, Smart door lock, Blynk, IoT, Security, Telegram, OTP

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