

# OTP Based Door Lock System

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**Abstract:** *An OTP-based door lock system is a modern security mechanism that utilizes unique One-Time Passwords for secure access. It comprises a microcontroller, GSM module, LCD display, keypad, and solenoid lock. The user enters their mobile number, receives an OTP, and upon successful verification, the door is unlocked. The system is cost-effective, easy to use, and can be installed in various applications for high-security levels. Overall, the OTP-based door lock system provides an efficient alternative to traditional lock-and-key mechanisms for securing access to restricted areas.*

**Keywords:** OTP, authentication, smart home, security, encryption

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