ABSTRACT

KEYPAD BASED DOOR LOCK SYSTEM

In this project, we plan to design a keypad-based door lock mechanism using STM32 Development Board. In this mechanism, the microcontroller acts as the brain by managing user input, pin verification and locking/unlocking mechanism. This project improves security by including a wrong code limit and alert notification system. This microcontroller, known for its processing capabilities, ensures seamless operation while maintaining a high level of security.

Key Components of this system:

1. STM32: The brain of the system, that can read and verify the inputs.
2. 4x4 Number pad: A User Input device for entering the pin for unlocking the door.
3. GSM Module: Used to send a message to the user.
4. LCD: Displays the entered pin and desired message.
5. LED: Shows status of the lock

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