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## **RFID Based Medicine Vending Machine Using NodeMCU**

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Abstract: The "RFID-Based Medicine Dispenser" project aims to develop an automated and secure system for dispensing medications using RFID (Radio-Frequency Identification) technology. The core components of the system include a NodeMCU microcontroller, an RFID reader, RFID tags, an LCD display, a servo motor and a power supply. The RFID reader scans the unique RFID tags attached to medicine containers, and the NodeMCU processes the data to verify the medication details. Upon successful verification, the servo motor dispenses the medicine and the LCD display provides real time feedback to the user. The system is designed to be user-friendly, secure, and efficient, making it suitable for healthcare facilities, pharmacies. By integrating IoT capabilities through the NodeMCU, the system can also be remotely monitored and controlled, enhancing its functionality and accessibility. This project demonstrates the potential of RFID technology in improving medication management and patient safety.

Keywords: RFID-Based Medicine Dispenser



