

(54) Title of the invention : IMPLEMENTATION OF A REAL-TIME SENSOR-INTEGRATED MEDICINE REMINDER SYSTEM AND AUTOMATED DISPENSING MECHANISM USING ARDUINO

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(57) Abstract :
 This paper presents a smart medicine box designed to help users manage their medication schedules effectively. The system provides timely reminders to ensure that users take their prescribed medications on time, preventing missed doses or mistakes. The box is equipped with an automatic dispensing mechanism, delivering the correct pills at the right time, reducing confusion, especially for elderly individuals who may have difficulty remembering their regimen. By automating medication management, the system eases the burden on caregivers and family members, ensuring correct and timely administration. Additionally, the system collects feedback from the user about pill consumption, helping to track adherence to the prescribed schedule. In the event of low stock or medication refills, the system automatically sends an order to a pharmacy, ensuring the user never runs out of essential medications. This innovation enhances user independence, improves healthcare efficiency, and provides a reliable solution for medication management, particularly for the elderly.

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