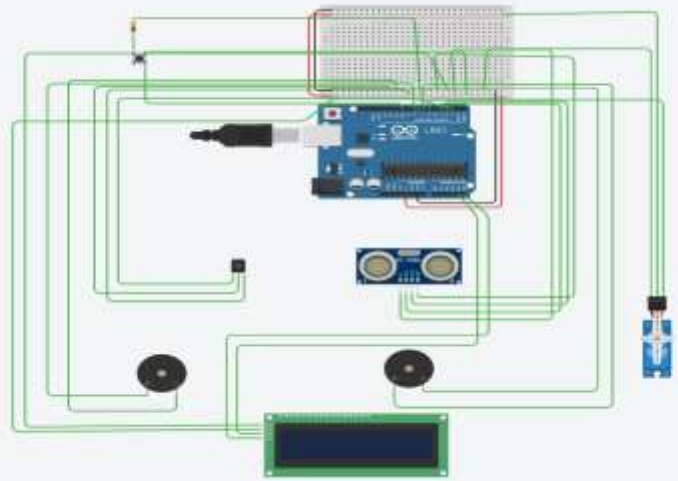
UE23CS251B: MPCA 4th Semester Section

AUTOMATIC MEDICINE DISPENSER FOR PATIENTS

This project presents an Automatic Medicine Dispenser using RFID, sensors, and a servo motor. The system initiates only after a valid RFID card is scanned, ensuring authorized access. A servo motor rotates every 10 seconds to dispense medicine. An ultrasonic sensor checks the medicine level and triggers a buzzer if the level is low (≥7 cm). An IR sensor detects if the medicine is taken; if not, a separate buzzer alerts after 8 seconds. All activity is displayed on the Serial Monitor. The system ensures timely dispensing and user accountability. It is a compact and cost-effective solution for personal or hospital use.

This project integrates Arduino Uno as the central microcontroller, with multiple sensors and actuators working together to enhance automation, reduce human intervention, and improve medication adherence. The system is beneficial for elderly patients, individuals with memory impairments, or those requiring strict medication schedules, ultimately contributing to better healthcare management.



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