

Medicine Dispensing using ESP – 32 CAM

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Abstract: *This project focuses on developing a smart dispensing system for medicine using the ESP32-CAM module coupled with Arduino. This shall automate the dispensation process of prescribed medication dose volumes at scheduled times so as to ensure patient compliance. There is real-time monitoring provided by the ESP32-CAM, allowing a remote access via Wi-Fi; through this, caregivers or the healthcare providers can monitor its use. A compact mechanical dispenser accurately dispenses the medicine. The system combines a user-friendly interface inputting schedules and dosage information in addition to dispatching on a smartphone application. Characteristics include image verification, reminding, and logging dispensing activities to keep track. It is cheap, scalable and solves medication adherence challenges- particularly with old or chronically ill patients.*

Keywords: CAM module