

MedMag Medication Dispenser

Objective

Providing a way for caregivers to help patients by simplifying the task of managing day to day medications. Our vision of a medication management system consists of a custom designed physical medication dispensation system in tandem with a web application which provides caregivers the tools to effectively oversee a patient's medication needs.



System Design and Use Cases

The MedMag medication dispenser is a system with two essential components. The hardware or physical medication dispenser which displays visual indicators of being in operation, and that it is time for a medication to be taken, as well as dispensing the scheduled medication at the press of a button. The other primary component of the MedMag system is the web application which allows caregivers to schedule medication times for up to 28 discrete dispensations, receive real time alerts, and view dispensation history.

Enabling Technologies

The technology stack for this project consists of HTML for the user interface, PHP for the web application functionality, MYSQL for database management, and Python for the device driving code of the physical dispenser run through a Raspberry Pi used as a microcontroller.