# Alerting Medicine Box

ABSTRACT

The medicine box is focused on patients who need to frequently take medications or vitamin supplements and it helps them to take their medicines on time.The box itself can deliver medicines to the patient on time without any other support and also facilitated with alarm to remind the patient to take the correct medicine at the correct time.

The medicine box has many trays with LED attached on to each one. We can adjust the time for taking the medicines with the help of PUSH BUTTON SWITCHES and LCD display.The project uses RTC DS1307 for real time clock and ARDUINO UNO as the brain of operations.When the programmed time matches with that of RTC timer,the corresponding tray/box will glow along with buzzer notification. The time interval is stored in the EEPROM of RTC.The RTC library is downloaded from GIThub and added to ARDUINO IDE1.8.13.The user also can set the time for the next medicine which is to be taken on the same day or upcoming days.

ADVANTAGES

* The medicine box replaces the conventional pill box that requires clients or attendants to stack the crate each day or consistently.
* It is an excellent pill box that can be used by people of all ages and can provide them with a facility to take more than one medicine at a time if required.
* It can help the patients especially the old people by preventing the medication errors and reminds them to take the right medicine at the right time.

USER GUIDE

* Simply open the individual containers using the specially designed fingertip tabs.
* Place your pills, vitamins and supplements into the appropriate boxes and close the lids.
* The reminder will remind you with a flashing light and alarm at the programmed times.
* Then open the box and have your medicines or remove or pour them into your hands.

LINK FOR DEMO

<https://drive.google.com/file/d/1w0yLmN5cHMW2yxtOfh-C5HiodoFnUcqR/view?usp=sharing>

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