



RNS INSTITUTE OF TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

A Smart Medical Box for Blind and Old Age People using ML and IOT

The main objective of the Project proposed is to create a platform consisting of an Arduino-based Smart Medical Box and a web application, to assist patients in adhering to their prescription schedules. The goal is to create a Medical Box that could notify caregivers when patients forget to take their medications, and to integrate a web-application that would provide an easy way for caregivers to communicate about prescriptions, and by extension, other topics relating to the wellbeing of the patient.

READ THE TEMPERATURE OF THE PATIENT

In this module the temperature of the PATIENT is monitored in real time and sent to the doctor's website in a graphical representation.

OLED TO DISPLAY THE REAL TIME INFORMATION.

OLEDs are used to notify the status of the SMB based on the operations taking place; OLEDs are placed to denote the operational status of the SMB such as time for medicine consuming by the user.

ALERT THE USER WHEN AND IF NEEDED

Database holds the information of the pills and schedule of it for the user based on the prescription given by the doctor and alerts the patients at the right time using a buzzer, OLED display and MP3 voice module which especially helps the blind people.

CROSSPLATFORM APP AND WEBSITE

By incorporating the app in the SMB users and doctor will be connected to real time information of the SMB and app can perform the following task: 1. Notify about pill time few minutes before the actual pill time 2. Alerts about the pills 3. Notify the doctor about the pill status in a graphical representation

SMART RECOMMENDATION USING MACHINE LEARNING

In this module the system will have all the historical data regarding the patient pill consumption and the type of diagnosis suggested by the doctor to the user, with the help of smart recommendations the user will be suggested for type of the medicine in the Flutter app.

Blind and Old people who need regular monitoring of their medication will be benefited through this project.

Name of Team Members

Sl.No	USN	Name
1	1RN17CS049	M SURYA
2	1RN17CS044	KOUSHIK M S
3	1RN17CS032	DHANANJAYA ADIGA
4	1RN17CS004	ADITHYA CHAKRAVARTHY M