**B12-6A2E**

**TITLE: Personal Assistance for Seniors Who Are Self-Reliant**

**(Medicine Reminder)**

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**Literature review:**

1. S.Mukund, N.K.Srinath [2], Design of Automatic Medication Dispenser. This method uses microcontroller interface with alphanumeric keypad, LED display, motor controller, multiple pill container and dispenser, alarm system. It is partially an automated device. Here the user is required to press a button to get the pill box and reset the alarm button.
2. Corey McCall, Branden Maynes, Cliff C. Zou, Ning J.Zhang[3], An Automatic Medication Self-Management and Monitoring System for Independently Living Patients. This paper describes the development and evaluation of RMAIS (RFID-based Medication Adherence Intelligence System). This system provides an automatic operation for easy medication by using built-in scale for dosage measurement and a motorized rotation plate to bring the correct medicine container in front of patient. It can support only up to seven medicines. The device would not be aware and it may introduce errors or wrong alarms until the tray is checked frequently. The scale used in this prototype is expensive.
3. Portable Medicine Reminder and Automatic Monitoring System Namrata Kataki, Assistant Professor, GIMT, Guwahati, India, namratakataki15@gmail.com Abhishek Nath, B.Tech Student, GIMT, Guwahati, India, abhisheknath686@gmail.com Manasweta Das, B.Tech Student, GIMT, Guwahati, India, dasmanasweta@gmail.com Abinash Goswami, B.Tech Student, GIMT, Guwahati, India, abinashgoswami55@gmail.com- The system can be updated by adding some additional features like voice notification, out of stock reminder.

**Empathy map:**

Sometimes elderly people forget to take their medicine at the correct time. They also forget which medicine He / She should take at that particular time. Sometimes medicine may get confused. And it is difficult for doctors/caretakers to monitor the patients around the clock. Frequent checking of medicinal stock. Sometimes he/she forget to take the medicinal box when they are outside. To avoid this problem, this medicine reminder system is developed.



**Proposed solution:**

An app is built for the user which enables him to set the desired time and medicine. These details will be stored in the IBM Cloudant DB. If the medicine time arrives the web application will send the medicine name to the IoT Device through the IBM IoT platform. The device will receive the medicine name and notify the user with voice commands. If the prescribed medicine is out of stock, it will also intimate through voice commands with medicine time.