(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2023

(21) Application No.202341068584 A
(43) Publication Date : 27/10/2023

(54) Title of the invention : A DESIGN OF AN IOT-BASED MEDICINE CASE FOR MULTI-USER MEDICATION MANAGEMENT USING A DRONE IN AN ELDERLY CENTER

(51) International classification :G16H0020100000, G16H0040670000, B64C0039020000, G08B0021040000, G16H0020130000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)Mr. Kurapati Veeranjaneya Varaprasad**
Address of Applicant :Assistant Professor, Computer Science Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. Maisammaguda ---------- ----------
**2)Malla Reddy Engineering College**
**Name of Applicant : NA**
**Address of Applicant : NA**
(72)**Name of Inventor :**
**1)Mr. Kurapati Veeranjaneya Varaprasad**
Address of Applicant :Assistant Professor, Computer Science Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. Maisammaguda ---------- ----------
**2)Ms V.Sreedevi**
Address of Applicant :Assistant Professor, Computer Science Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. Maisammaguda ---------- ----------
**3)Ms Asmita Pankaj Ambekar**
Address of Applicant :Assistant Professor, Computer Science Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. Maisammaguda ---------- ----------
**4)Mr. E. Sunil**
Address of Applicant :Assistant Professor, Computer Science Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. Maisammaguda ---------- ----------
**5)Ms Veeranalla Siva Pavani**
Address of Applicant :Assistant Professor, Computer Science Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajgiri-500100. Maisammaguda ---------- ----------
**6)Mr.A.Madhu**
Address of Applicant :Assistant Professor, Computer Science Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. Maisammaguda ---------- ----------
**7)Mr.Vinnakonda Jagadish Kumar**
Address of Applicant :Assistant Professor, Computer Science Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. Maisammaguda ---------- ----------
**8)Ms Beri Madhuri**
Address of Applicant :Assistant Professor, Computer Science Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Medchal-Malkajgiri-500100. Maisammaguda ---------- ----------
**9)Mr. Pilli Uday**
Address of Applicant :Assistant Professor, Computer Science Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. Maisammaguda ---------- ----------
**10)Mr. Dhanaveera Pavan Kumar B**
Address of Applicant :Assistant Professor, Computer Science Engineering Dept., Malla Reddy Engineering College, Maisammaguda (Post. Via. Kompally), Mechal-Malkajgiri-500100. Maisammaguda ---------- ----------

(57) Abstract :
The aging community has its own set of needs, challenges, and habits. The elderly in care homes require dependable medication services due to geriatric problems. However, inadvertent and overdosed medicine ingestion caused by pharmaceutical mismanagement may cause them complications. In addition, any neglect or delay in medicine delivery by caregivers or family members may risk the elderly's drug safety. The purpose of this study is to create a drug Management System (MMS) that uses drones to control drug mismanagement and automate medicine replenishment tasks. In this instance, the researchers created a pharmaceutical case design that makes use of the Internet of Things (IoT) to assist many users. Medication is administered at the institutional level. The drone is used in a targeted delivery approach to replenish medicine after it has been used by senior residents for drug replenishment. As a result, MMS enhances medication administration and automates drug dispensing in nursing homes. As a result, the proposed approach facilitates the elderly's adoption of cutting-edge IoT technology.

No. of Pages : 8 No. of Claims : 4