

LITERATURE SURVEY

TEAM ID: PNT2022TMID27573

PROJECT TITLE: Personal Assistance for senior citizens who are Self -
Reliant

TEAM MEMBERS:

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REVIEW 1:

Title of the Paper:

MedCue (A Medicine Reminder Android Application)

Name of the Author:

Vinay Kumar Kaim, Devendra Kumar Misra, Sarthak Sharma, Vishal Kumar

Published on 26-27 May 2022 2022 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing

Problem Description:

This is an android based application which reminds the patients by ringing an alarm system and by giving notification so that there is no need to remember the entire medicine doses name and their timings throughout the month. The application is user friendly and has easy to understand functions. The user can also see the medicine history which is consumed by the patient in a few steps. Many medicines related application have been developed but they have some minor problems related to their functionality. But we made an attempt to overcome these problems so it will be convenient to the users in medical adherence.

REVIEW 2:

Title of the paper:

Health alert and medicine reminder using internet of things.

Name of the Author:

Ranjana P and Alexander Elizabeth

Published in: 2018 IEEE International Conference on Computational Intelligence and Computing Research (ICCIC)

Problem description:

The study proposed a medicine box would help people who are under medication mainly for old persons to take the medicine on time without forgetting. It also continuously monitors the people's health conditions like Blood pressure, ECG through the sensors kept at home and informs them to take necessary action. A person's life can be saved by this system. Human effort can also be decreased by this health alert and medicine reminder. These systems can easily detect the abnormalities in the body condition and also require medicine to take through the buzzer and the LCD display. The user's relatives or doctors were also informed about the abnormal conditions.

REVIEW 3:

Title of the paper:

Older Patient and Caregiver Perspectives on Medication Value and Deprescribing: A Qualitative Study

Name of the Author:

Academic Editors: Aimee N. Pickering, Megan E. Hamm, Alicia Dawdani, Joseph T. Hanlon, Carolyn T. Thorpe, MPH, Walid F. Gellad, Thomas R. Radomski

Published on 17 February 2020

Problem Description:

Shared decision making is essential to deprescribing unnecessary or harmful medications in older adults, yet patients' and caregivers' perspectives on medication value and how this affects their willingness to discontinue a medication are poorly understood. We sought to identify the most significant factors that impact the perceived value of a medication from the perspective of patients and caregivers

REVIEW 4:

Title of the paper:

Smart medicine reminder device for the elderly

Name of the Author:

Kumar, S.B., Goh, W.W. and Balakrishnan, S

Published on 2018 Fourth International Conference on Advances in Computing, Communication & Automation (ICACCA)

Problem Description:

This paper discusses in detail a proposed IoTBased Smart Medicine Reminder Device that will be designed for the elderly based on the issues faced by the elderly. The paper explains the background of the study and the main aim is to ensure that the IoT-Based Smart Medicine Reminder Device will be solving problems faced by the elderly. The issues that have been identified are targeted very much to the elderly and are aimed to solve the issues faced by the elderly on a daily basis, especially with the consumption of medicine. The paper will also explore the similar implemented devices/systems to identify strengths and weaknesses of other relevant devices/systems so that a better device can be developed.

References:

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5. S. Shinde, T. Kadaskar, P. Patil and R. Barathe, *A Smart Pill Box With Remind And Consumption Using IoT*, pp. 152-154, 2017.
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