**Literature Survey**

| Date | 19 September 2022 |
| --- | --- |
| Team ID | PNT2022TMID14838 |
| Project Name | Personal Assistance for Seniors Who Are Self-Reliant |
| Maximum Marks | 4 Marks |

**Team Members**

Sruthi S - 19BEC028 Akshaya C V - 19BEC030 Bharathi Priya M - 19BEC023 Vishnu Priya P - 19BEC036

# Project Title

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

| **S.**  **No** | **Link** | **Year and Journal** | **Paper Title** | **Author Name** | **Solution** |
| --- | --- | --- | --- | --- | --- |
| 1 | [Autonomous](https://ieeexplore.ieee.org/document/9120882) | **May - 2020** | Autonomous Robot for House Supervision Based on Personal  Assistance Technology | [Alin Grama](https://ieeexplore.ieee.org/author/37399314900); [Elena-Mirela](https://ieeexplore.ieee.org/author/37086443029) [Stetco](https://ieeexplore.ieee.org/author/37086443029);  [Ovidiu-Aurel](https://ieeexplore.ieee.org/author/38181895600) [Pop](https://ieeexplore.ieee.org/author/38181895600); [Olimpiu](https://ieeexplore.ieee.org/author/38181895600) [Pop](https://ieeexplore.ieee.org/author/38181895600) | This Paper work presents a device which is designed in such a way that to allow the house to be supervised in the absence of its inhabitants, so that the owner of the house is warned, if, in his absence accidents like gas leaks, fire, water leaks occur. Also, the owner is alerted if an intruder has entered the house. This solution comes under Internet of Things devices. However, this requires a secure internet connection that is capable of transferring to the user all the data collected by the device. |
|  | [Robot for House](https://ieeexplore.ieee.org/document/9120882) |  |
|  | [Supervision](https://ieeexplore.ieee.org/document/9120882) | 2020 43rd |
|  | [Based on](https://ieeexplore.ieee.org/document/9120882) | International |
|  | [Personal](https://ieeexplore.ieee.org/document/9120882) | Spring Seminar |
|  | [Assistance](https://ieeexplore.ieee.org/document/9120882) | on Electronics |
|  | [Technology |](https://ieeexplore.ieee.org/document/9120882) | Technology |
|  | [IEEE](https://ieeexplore.ieee.org/document/9120882) | (ISSE) |
|  | [Conference](https://ieeexplore.ieee.org/document/9120882) |  |
|  | [Publication](https://ieeexplore.ieee.org/document/9120882) |  |
| 2 | [Design &](https://ieeexplore.ieee.org/document/8745654) | 2018 | Design & Implementation of an Automated Reminder  Medicine Box for Old People and Hospital | [Mohammed](https://ieeexplore.ieee.org/author/37085406103) [Abdul Kader](https://ieeexplore.ieee.org/author/37085406103); [Mohammad](https://ieeexplore.ieee.org/author/37086870726) [Nayim](https://ieeexplore.ieee.org/author/37086870726)  [Uddin](https://ieeexplore.ieee.org/author/37086870726); [Asif](https://ieeexplore.ieee.org/author/37086868791) [Mohammad](https://ieeexplore.ieee.org/author/37086868791) [Arfi](https://ieeexplore.ieee.org/author/37086868791);  [Naeemul](https://ieeexplore.ieee.org/author/37086810270)  [Islam](https://ieeexplore.ieee.org/author/37086810270); [Md.](https://ieeexplore.ieee.org/author/37086726219) [Anisuzzaman](https://ieeexplore.ieee.org/author/37086726219) | This device has 21 airtight compartments to keep the medicine. The attendant of a patient or nurse can make a weekly plan of medicine remainder by keeping medicine in 21 compartments for taking medicine three times per day. It can be set manually too, this device has a real-time clock to read the time. When time is matched with the set time, the device plays a sound in the speaker to share the information of medicine quantity and blinks the LED of the specific compartment where medicine is kept for that time |
|  | [Implementation](https://ieeexplore.ieee.org/document/8745654) |  |
|  | [of an Automated](https://ieeexplore.ieee.org/document/8745654) | 2nd Int. Conf. |
|  | [Reminder](https://ieeexplore.ieee.org/document/8745654) | on Innovations |
|  | [Medicine Box](https://ieeexplore.ieee.org/document/8745654) | in Science, |
|  | [for Old People](https://ieeexplore.ieee.org/document/8745654) | Engineering |
|  | [and Hospital |](https://ieeexplore.ieee.org/document/8745654) | and |
|  | [IEEE](https://ieeexplore.ieee.org/document/8745654) | Technology |
|  | [Conference](https://ieeexplore.ieee.org/document/8745654) | (ICISET) |
|  | [Publication](https://ieeexplore.ieee.org/document/8745654) | 27-28 October |
|  |  | 2018, |
|  |  | Chittagong, |
|  |  | Bangladesh |

| 3 | [PAS: A](https://ieeexplore.ieee.org/document/4438165) | 2007 Joint | PAS: A  Wireless-Enable d,  Sensor-Integrate d Personal  Assistance System for  Independent and Assisted Living | [Jennifer C.](https://ieeexplore.ieee.org/author/37276117100) [Hou](https://ieeexplore.ieee.org/author/37276117100); [Qixin](https://ieeexplore.ieee.org/author/37291369300) [Wang](https://ieeexplore.ieee.org/author/37291369300); [Bedoor K.](https://ieeexplore.ieee.org/author/37829572900) [AlShebli](https://ieeexplore.ieee.org/author/37829572900);  [Linda Ball](https://ieeexplore.ieee.org/author/37088617387); [Stanley](https://ieeexplore.ieee.org/author/37088617323) [Birge](https://ieeexplore.ieee.org/author/37088617323); [Marco](https://ieeexplore.ieee.org/author/37272874700) [Caccamo](https://ieeexplore.ieee.org/author/37272874700); [Chin-Fei](https://ieeexplore.ieee.org/author/37301481400) [Cheah](https://ieeexplore.ieee.org/author/37301481400); [Eric](https://ieeexplore.ieee.org/author/37663466300) [Gilbert](https://ieeexplore.ieee.org/author/37663466300); [Carl](https://ieeexplore.ieee.org/author/37271432500)  [A. Gunter](https://ieeexplore.ieee.org/author/37271432500); | PAS open architecture for assisted living, which allows independently developed third party components to collaborate. We discuss key technological issues in assisted living systems, such as tracking, fall detection, security and privacy; and results from our pilot study in a real assisted living facility are presented. |
| --- | --- | --- | --- | --- | --- |
|  | [Wireless-Enable](https://ieeexplore.ieee.org/document/4438165) | Workshop on |
|  | [d,](https://ieeexplore.ieee.org/document/4438165) | High |
|  | [Sensor-Integrate](https://ieeexplore.ieee.org/document/4438165) | Confidence |
|  | [d Personal](https://ieeexplore.ieee.org/document/4438165) | Medical |
|  | [Assistance](https://ieeexplore.ieee.org/document/4438165) | Devices, |
|  | [System for](https://ieeexplore.ieee.org/document/4438165) | Software, and |
|  | [Independent and](https://ieeexplore.ieee.org/document/4438165) | Systems and |
|  | [Assisted Living |](https://ieeexplore.ieee.org/document/4438165) | Medical |
|  | [IEEE](https://ieeexplore.ieee.org/document/4438165) | Device |
|  | [Conference](https://ieeexplore.ieee.org/document/4438165) | Plug-and-Play |
|  | [Publication |](https://ieeexplore.ieee.org/document/4438165) | Interoperability |
|  | [IEEE Xplore](https://ieeexplore.ieee.org/document/4438165) |  |
| 4 | [Medicine](https://www.sciencedirect.com/science/article/pii/S1877050916000922) [Reminder and](https://www.sciencedirect.com/science/article/pii/S1877050916000922) [Monitoring](https://www.sciencedirect.com/science/article/pii/S1877050916000922) [System for](https://www.sciencedirect.com/science/article/pii/S1877050916000922) [Secure Health](https://www.sciencedirect.com/science/article/pii/S1877050916000922) [Using IOT -](https://www.sciencedirect.com/science/article/pii/S1877050916000922) [ScienceDirect](https://www.sciencedirect.com/science/article/pii/S1877050916000922) | **June 2015**  Article in International Journal of Managing Public Sector Information  and Communicatio n Technologies   * June 2015 DOI:   10.5121/ijmpic t.2015.6204 | Medication Reminder and Healthcare – An Android  Application | Samir V.ZanjalaGiri sh.  R.Talmaleb | This is an Android-based application in which an automatic alarm ringing system is implemented. It  focuses on doctor and patient interaction. The alarm can be set for multiple medicines and timings including date, time and medicine description. A notification will be sent to them through email or message  inside the system preferably chosen by the patients. economical, time-saving and supports medication adherence. |

**Objective**

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

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.

Our objective is to create a mobile or software application that reminds the elderly people to take up the medicine during the right time, initially it reminds through a message, A Special Ringtone to take up the medicine, even after receiving the messages and calls, still there is no response from the users means, a message will be send to the user’s close ones. This happens in an interval of 10 min each.