

LITERATURE SURVEY

Team ID	PNT2022TMID00130
Project Name	Personal Assistance for seniors who are self-reliant – Medicine Reminder.

1.PERSONAL ASSISTANT APPLICATION FOR SENIOR CITIZEN

Author : Nitinkumar Chaudary, Abhishek Vishwakarma, Arya Bhavate- June 2022.

The issues that older persons face are numerous. These include issues with society, the economy, psychology, health, crime, abuse, and other issues. Health care, financial stability, housing, family, and community are the most crucial factors . When these are available, folks can live their life effectively and engage in they follow their morals and beliefs, are capable of making their own choices, and get along with others. With the aid of modern, superior technologies and assistance from the Child and elderly parents' problems are managed by a physical service provider. For a kid to care for their ageing parents, distance is no longer a barrier.

2.ADAPTING A VIRTUAL ASSITANT DEVICE TO SUPPORT THE INTERACTION WITH ELDERLY PEOPLE

Author: Manuel Bolanos, Cesar Collazos and Francisco Gutierrez - 2020

The focus groups' elderly participants find the virtual assistant's various features to be both very helpful and intriguing because it can make some of their everyday duties easier. However, they say that a little friendlier interaction would be preferable. By minimising human-machine interaction through their oral interface, smart virtual assistants enable the development of work, recreational, and even health-related activities for elderly people.

3.PERSONAL ASSISTANCE DEVICE FOR INDEPENDENT SENIOR CITIZENS/PATIENTS

Author: A. Yuvaraj , B.N. Gunasekhar Reddy, C.V. Saritha – January 2020

This assignment work has been undertaken may discuss through the internet for supplying assistance to elderly people and for health checking patients due to the continually growing usage of the internet at this time. This paper describes the design and functionality of a lowpower Atmega328 microcontroller-based, ESP8266-based, IOT-based completely personal assistance device. The patient's environment, through the heartbeat sensor module, supplies a pulse of data to the maker of everything that communicates, allowing them to reveal the measurements using an ESP8266 Wi-Fi network.

4.AN EMPIRICAL STUDY OF OLDER ADULT'S VOICE ASSISTANT USE OR HEALTH INFORMATION SEEKING

Author : Robin Brewer, Casey Pierce, Pooja Upadhyay and Leeseul Park – January 2021

This research offers empirical evidence of how older persons utilise voice assistants to seek out health information. We illustrate how their expectations are satisfied and not met via scenario-based interviews. As a result, we consider the ethics of personalisation in health situations and offer practical improvements to interactive voice systems.

5.WITH A LITTLE HELP FROM MY CONVERSATION AGENT: TOWARDS A VOICE ASSISTANT FOR IMPROVED PATIENT COMPLIANCE AND MEDICATION THERAPY SAFETY

Author : Jah Schulte to Brinke , Chrisitan Fitte, Eduard Anton, Pascal Meier and Frank Teuteberg -2021

The goal of our study was to create a multimodal assistant that secures and supports patients in managing their medications, improving safety and promoting adherence to treatment regimens. These were constructed using a prototype that had three parts. The first is the Med-Portal component, which a medical professional can access to monitor a patient's medication schedule and offer personalised guidance. The second is the Med-REST web service, which is the German ABCD database's interface and comprises all available prescription and over-the-counter drugs. The final component is Med-CA, which enables patients to adhere to their prescription schedule and acquire extra details about proper ingestion, storage, and adverse effects.

6.A SCOPING REVIEW OF PATIENT-FACING , BEHAVIORAL HEALTH INTERVENTIONS WITH VOICE ASSISTANT TECHNOLOGY TARGETING SELF-MANAGEMENT AND HEALTHY LIFESTYLE BEHAVIORS

Author : Emre Sezgin, Lisa k.Militello, Yungui Huang and Simon Lin – June 2020

We discuss the state of voice technology at the moment in order to provide information on research that showed how employing VAs to promote healthy lifestyle and self-management behaviours was designed and conceptualised. Our results confirm earlier research, which indicated that behavioural health research using VAs is still in its infancy and calls for additional efficacy testing as well as investigations into privacy, patient safety, and costs. This is true despite the growing popularity and commercial success of VAs. The use of patientfacing VAs to encourage self-management and healthy lifestyle practises is being studied for the first time in this literat2ure review.

7.HABITAT: AN IOT SOLUTION FOR INDEPENDENT ELDERLY PEOPLE

Author : Elena Borelli, Giacomo Paolini, Francesco Antoniazzi, Marina Barbiroli and Francesca Benassi.

The HABITAT project sought to create an intelligent interdisciplinary platform during the research period, which is presented in full in this work, for aiding elderly and non-self sufficient persons in Smart Homes in order to make them feel as comfortable as possible. The design and implementation of a number of smart objects, as well as their integration with regular household items, were addressed by the technology constraints.