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PERSONAL ASSISTANCE FOR SENIORS WHO ARE SELF RELAIENT

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ABSTRACT

In today's world the peoples are busy on their tired work schedules and they don't have time to care elderly people. And elderly people also forget to take their medicines at the scheduled time.if they go for medicinal professionals it may cost them more for a personal care takers.and it is also tough for them to monitor patients as humans are prone to errors.To avoid and overcome this problem.this medicinal reminder system is created this system provides convinent hardware and software support with collaboration with ibm functionalities and iot technologies like IBM-cloud,Node-red,Cloundant DB.This system uses IBM IOT platforms to recive data and uses IBM Cloud to store data and uses Node Red for IOT data Transmission and uses Cloundant DB for information retrival.uses python as backend to convert text-to-voice commands and viceversa.

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LITREATURE SURVEY:

The Internet of Things is a new reality that is completely changing our everyday life, and promises to revolutionize modern healthcare by enablinga more personalized ,preventive and collaborative form of care. Aiming to combine these two important topics, this work presents an IoT-ready solution for the elderly living assistance which is able to monitor and register patients vital information as well as to provide mechanisms to trigger alarms.

Devices in the form of wearables like fitness bands and other wirelessly connected devices like blood pressure and heart rate monitoring cuffs, glucometer etc. give patients access to personalized attention. These devices can be tuned to remind calorie count, exercise check, appointments, blood pressure variations and much more.

IoT has changed people's lives, especially elderly patients, by enabling constant tracking of health conditions. This has a major impact on people living alone and their families. On any disturbance or changes in the routine activities of a person, alert mechanism sends signals to family members and concerned health providers.

AUTHOR: Elena Borelli and Giacomo Paolini

DESCRIPTION: Data flexible and extensive digital platform for Smart app is presented, exploiting the most advanced technologies of the Internet of Things, such as Radio Frequency Identification, wearable electronics, Wireless Sensor Networks, and Artificial Intelligence. To support elderly people both in their own houses and in retirement homes, and embedding them in everyday life objects, thus reducing the expenses for healthcare due to the lower need for personal assistance, and providing a better life quality to the elderly users ,Thus the main novelty of the paper is the system-level description of the platform flexibility allowing the interoperability of different smart devices.

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AUTHOR: Medhat Awadalla and Firdous Kausar

DESCRIPTION: The health care of elderly people addresses the necessity for services that utilize recent technologies and devices. Now-a-days, both loneliness and psychological depressions are typical problems which elderly people face because of living alone/abandoned or reduced communication with their children and relatives. This paper presents the development of an integrated platform using the Internet of Things to manage and provide extensive services for elderly people to address the aforementioned issues. The proposed platform relies on wearable sensor devices to collect real-time data and store it in a cloud server via a developed smartphone application.

AUTHOR: Aitor Almeidaa and Rubén Mulero

DESCRIPTION: the clinical utility of early detecting these conditions is of substantial importance in order to avoid hospitalization and lessen the socio-economic costs of caring, while it may also significantly improve elderly people's quality of life. the health care sector in many advanced economies faces common issues, including labour and skills shortages, increased demand for long-term home-care systems and the need to invest in new technologies. All of these cost escalators make it more difficult for existing systems to handle the increased prevalence of age-related chronic diseases, therefore, in a very near future, aging population is going to become an economic concern for all the citizens and one of the greatest social and economic challenges for world society. This work deals with a critical performance analysis of an Internet of Things aware Ambient Assisted Living (AAL) system for elderly monitoring. The analysis is focused on three main system components:the City-wide data capturing layer, the Cloud-based centralized data management repository, and the risk analysis and prediction module. Each module can provide different operating modes, therefore the critical analysis aims at defining which are the best solutions according to context's needs.

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AUTHOR: Sathish Kumar and Nivedha

AUTHOR: Elena Borelli and Giacomo Paolini

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