PERSONAL ASSISTANCE FOR SENIORS WHO ARE SELF –RELIANT

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PRE-REQUISITE:

To complete our project, we must have knowledge of the following. We need to have basic knowledge of the following cloud services:

- IBM cloud
- IBM Watson
- IBM Cloudant DB
- Machine Learning , CNN.

GITHUB ACCOUNT :

- Openhttps://github.comin a web browser, and then select Sign up**.**
- Enter your email address.
- Create a password for your new GitHub account, and Enter a username**,** too. Next, choose whether you want to receive updates and announcements via email, and then select Continue**.**
- Verify your account by solving a puzzle. Select the Start Puzzle button to do so, and then follow the prompts.
- After you verify your account, select the Create account button.
- Next, GitHub sends a launch code to your email address. Type that launch code in the Enter code dialog, and then press Enter.
- I have created my github account id IBM-Project-47290-1660798025.

INSTALLATION OF IDE'S:

Python is available from its website python.org. Once there, hover your mouse over the Downloads menu, then over the Windows option, and then click the button to download the latest release.

LITERATURE SURVEY:

REVIEW- 1

Title Of The Paper:

IoT Based Pill Reminder and Monitoring System

Name Of The Author:

Sultan Ahmad.

Problem Description:

We have demonstrated a mobile application that generatesalarm signals to remind a patient to take medication. Wefocus on helps patients and improving the monitoring. The application Medicare is easily accessible.Combination of a sensing system with android applicationhelps us to measure how well a patient cantake their dailyreal-time. The availability of sensors andmedicinal (IoT) work better inconsideration of patients. It allows real-timemonitoring.Bettercompliance in terms of the taking of medicine canwith the use of our proposed framework. This framework assures the security of the patient, preventdosages, support medication adherence. As a futureframework by presenting extra highlights utilizingportable application and incorporate other medicalA data-sharing feature between patient and healthprofessionals would also be developed. Voice-alert notification is being considered as part of the future .

REVIEW -2

Title Of The Paper:

An IoT System for Remote Health Monitoring in Elderly Adults through a Wearable Device and Mobile Application

Name Of The Author:

Luis A. Durán-Vega,Pedro C. Santana-Mancilla,Raymundo Buenrostro-Mariscal,Juan Contreras-Castillo,Luis E. Anido-Rifón,Miguel A. García-Ruiz,Osval A. Montesinos-López, andFermín Estrada-González

Problem Description:

As future work, a long-term evaluation in geriatric residences is planned, to validate directly with potential users the benefit that this system can bring to them when implementing This paper presents the design and development of an IoT system for the remote monitoring of elderly people living in nursing homes, through a mobile application and a wearable device.The design was based on a contextual study in geriatric residences, in which semi-structured interviews were applied to the personnel responsible for the care of the elderly.The development of the prototype showed that it is feasible to carry out and implement the proposal of this research. In addition, it is low-cost and aligned to the IoT paradigm; the most important characteristics are: Real time tracking of the general conditions of the patients, the fact that it allows interaction between caregivers and family, that it is accessible remotely, and that the highest cost is the wearable device, which costs less than $100 US.The results of the usability evaluation were very promising and positive, showing that Abuelómetro was well received by the users, providing initial evidence that our proposal could improve the quality of the adult's healthcare, and additionally, it provided valuable information that can be used to correct the usability problems that may affect the acceptance of the technology by end users.it with their patients.

REVIEW-3

Title Of The Paper:

How The Internet Of Things (IoT) Can Be Used Monitor The Elderly for medicine remainder.

Name Of The Author:

Ajay Rane

Problem Description :

Operating on a 0G network—which is optimized to frequently transmit small amounts of information over a large distance—IoT-enabled sensors detect conditions and movement from connected devices, and never pick up personal information. Additionally, these devices consume minimal energy on a 0G network and therefore support communications at a very low cost. This means families can receive effective care without a hefty price tag. Devices that run on other networks, like cellular, can also use a 0G network as a backup to ensure device users have constant supervision and those vulnerable individuals are able to communicate their health needs immediately. For example, Vitalbase'sVibby OAK, an automatic fall detector worn on the wrist or neck, connects to a cellular mobile device but uses a 0G network when there is no primary connectivity, either because the user is not near a phone, or there's no cellular network connectivity. At healthcare facilities, the device can interface with all existing nurse call systems to alert medical staff when an issue arises. By optimizing automatic and intuitive fall-detection devices with the IoT, older adults can live more independently and maintain autonomy. The ability to remotely monitor seniors, receive alerts in case of emergencies, predict issues based on early warning signs, and intervene proactively offers peace of mind to both healthcare providers and families of senior citizens.

REVIEW-4

Title Of The Paper:

Medicine Reminder and Monitoring System for Secure Health Using IOT

Name Of The Author:

Samirv.Zanjal,GirishTalmale.

Problem Description:

For home health care various technology have evolved as review considered, in this paper medicine, its scheduling have well focused which is beneficial to improve efficiency of prescribed drug and reduce economic factor. To improve the existing home health care technique number of monitoring technology has observed which leads to home health monitoring system. The monitoring system can beimplemented with sensing element and wireless module which should need to secure so that message containing the health related information should not be corrupt. IOT (Internet of Things) play a vital role in communicating the two devices, the use of messaging standard and communication protocol we can securely transfer the important messages regarding to health. open source IOT cloud will be effective for storing sensors data,the benefit of digitally storing is theretrieving of data is easy and faster manner in case of emergency for secure health. For the user personal identity and Encryption/Decryption purposes the RFID will best.

PAPER REFERENCE:

1. A. Sawand, S. Djahel, Z. Zhang, and F. Na. Multidisciplinary Approaches to Achieving Efficient and Trustworthy eHealth Monitoring Systems. Commun. China (ICCC), 2014 IEEE/CIC Int. Conf., pp. 187–192; 2014.

2. D. a. Clifton, D. Wong, L. Clifton, S. Wilson, R. Way, R. Pullinger, and L. Tarassenko. A large-scale clinical validation of an integrated monitoring system in the Emergency Department. IEEE J. Biomed. Heal. Informatics vol. 17, no. 4, pp. 835–842; 2013.

3. M. Parida, H.-C. Yang, S.-W. Jheng, and C.-J. Kuo.Application of RFID Technology for In-House Drug Management System.15th Int. Conf. Network-Based Inf. Syst., pp. 577–581; 2012.