

PERSONAL ASSISTANCE FOR SENIORS WHO ARE SELF RELIANT

1.INTRODUCTION

PROJECT OVERVIEW

In modern society, busy life has made people forget many things in day to day life. The elderly people and the people victims of chronicle diseases who need to take the medicines timely without missing are suffering from dementia, which is forgetting things in their daily routine. Considering this situation study has been done in this. Paper reviewing the technologies of home health care which are currently used for improving this situation by reminding the scheduled of medicine, remote monitoring and update new medicine data of patients, which can be done by prescriber through web.

Medicines are synthesized to cure, cease, prevent diseases or help in the diagnosis of illnesses. Lots of aged people live unaccompanied; few of them are endure from disorder, making it difficult to take care by oneself. Delay of taking their tablets or even taking it at the incorrect interval may raise health consequences. The design of an IoT based medication system is established and it can be used by patients as well as caretakers in sequence to monitor and ensure that the correct amount of each medicine is being taken at the exact time. This provides audio communication to aware the user when a confirmed medicine is to be taken. Furthermore, a software application is used to send messages and email alerts to the patient and the caretaker.

In the contemporary day life style people have no time to spend with their family. In such a busy life it's difficult to keep an isolated day out of their busy schedule for the doctor for consistent medical checkup and taking medicines at time. Their is a necessity for new idea and technology which helps in saving their time.

The proposed model enables users to improve health related risks and reduce healthcare costs by reminding to take medicines at time, collecting, recording and analyzing data in real time efficiently. With the help of this proposal the time of both patients and doctors are saved and doctors can also help in emergency scenario as much as possible. The proposed outcome of the project is to give proper and efficient medical services to patients by reminding them when to take medicines and collecting data information through health status monitors which would include patient's Heart rate.

1.2 PURPOSE:

Internet of things (IoT) is a system of connected devices through the internet. It involves mechanical devices, sensors, home appliances, vehicles, etc., apart from desktop, mobile, and laptop. These devices are designed in such a way that they can share data with other devices over the internet. IoT basically provides a platform for devices to interact and collaborate with each other.

The sensor is the layer that connects the IoT device to the outer environment or human being. As the name suggests, it senses the changes and sends data to the cloud for processing. These sensors continuously collect data from the environment and transmit the information to the next layer: pressure sensor, temperature sensor, and light intensity detectors.

As industry agriculture follows the traditional experience-based operations, which are heavily dependent on human intervention. But with the changing economic landscape and the population increment, the supply-demand gap is huge. Changing environmental conditions, global warming are also a part of the challenge.

IoT is probably the most powerful weapon for the agriculture and farming industry to fight this. IoT enables farm managers with real-time crop monitoring, precision farming, livestock management, smart greenhouse management, etc. Industry-grade drones also have multiple use cases in smart farming. On the one hand, drones are used to monitor air, soil, moisture quality; and the other hand; they can help with physical activities like automated spraying of fertilizers, preventing physical breakouts in farms, etc.

The IoT is a set of physical devices that are embedded with software applications, smart sensors and other technologies that are interconnected with each other over the internet and provide real-time data exchange and analysis with each other.

2.1 EXISTING PROBLEM:

By analyzing the data, an internet of things (IoT) based reminder system has been developed. It is designed to assist the patient who forgets to take medicine. The proposed system consists of an IoT enabled device and an android application. It mainly focuses on dementia patient. But it is beneficial for all. Patients will no longer have to worry about daily medication. The application will send a notification when it's time to take medicine. The mobile application is used for keeping the record in medicine details and reminding the schedule of medicine. We have used the IoT enabled Arduino device for monitoring the whole system. The device can sense whether a patient has taken medicine or not with the help of the infrared (IR) sensor.

2.2 REFERENCES:

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