V.S.B. ENGINEERING COLLEGE, KARUR

Department Electronics and Communication Engineering

IBM NALAIYA THIRAN

LITERATURE SURVEY

TITLE: Personal Assistance for Seniors Who Are Self-Reliant

DOMAIN NAME: INTERNET OF THINGS

LEADER NAME: Parthiban M

TEAM MEMBER NAME: Niranjan R

                     Naveen TR

                     Nadish KB

MENTOR NAME: VALLISUSEELA R

ABSTRACT

        The idea of digital world where different types of sensors and local processing connected to share information is used in many industries nowadays. There are various products which are developed based on these ideas. Healthcare industry is one where lot of improvements is taking place. Medicines play important role for prevention and cure for most of the diseases. Many Harmful and risky diseases can be cured through proper medication. The proposed system consists of an IoT enabled medication reminder system and it gives timely alerts for the patients about their medication time. It alerts the patient to take medicines at proper time by providing audio-visual alert. The system helps to monitor whether patient has taken the medicine and it's healthcare data.

INTRODUCTION

        In modern society, most of the time people remain busy in their daily life schedule. It is true that they give more preference to their work than taking care of their health. Several diseases like diabetes, blood pressure is nowadays very common. Maintaining daily medication become very difficult for old people. Sometimes younger is faced with the same problem. There are many people in our family who need constant help may it be our elderly people, younger or others. But it is not always possible for us to remind them of their medicine's dosages every time. For this purpose, there needs to be some facility for us which monitoring patient and take care. Nowadays we are all used to living technology-based life. We can use this technology in a way that will be beneficial for

us. Cell phones aren't best utilized for calling but now maybe used as an ensemble of embedded sensors that together allow new packages including human services, healthcare, social networks, environmental tracking etc. Today in medical services frameworks, the usage of cell phones is turning into an expanding number of values. IoT may be helpful to monitor real-time condition and IoT can be a powerful and effective paradigm to store data collected by sensors devices to the cloud. In our project, the IoT enabled device will control the overall monitoring system. And developed an android application which help patients by reminding medicine in take time and so on.

LITERATURE SURVEY

As stated by the WHO Poor adherence can lead to serious health risk. For instance, a recent study found out that the risk of hospitalized patients, having diabetes congestive heart failure, mellitus, hypertension, or hypercholesterolemia who actually were non adherent to prescribed remedy was more in comparison with the general population. Non-adherence rate can vary widely, even in the rigid controlled and *monitored environment of a clinical test*. To mention, patients with long term conditions are questionable to follow prescription than those with acute state. The effectiveness of a therapy or treatment directly depends upon a patient's ability and willingness to follow a prescribed regimen. The patient's ability for reading and understanding the instructions for medication is a key factor. Patients who face difficulties in understanding the instructions in a prescription which ultimately results in decreased adherence and poor medication management and consumption. Issues of low literacy must be recognized and strategies designed with this limitation in consideration. A patient with heart failure problem not taking prescribed medication or *who tents to forget to take their medicine*, costs the U.S. health care system an average of almost $8,000 annually, according to a 2011 analysis published in Health Affairs. The gures are high for other illnesses too almost $4,000 per patient with high blood pressure, over $3,700 per patient with diabetes and about $1,200 per patient with high cholesterol. Dr. Brennan and a team of researchers at Brigham and Women's Hospital, in Boston, have been studying this issue since 2010 by analyzing pharmaceutical insurance claims data. They've determined several reasons behind not taking proper medication and among those, one of them is: There is a high degree of complications for patients who takes several different drugs for a variety of conditions. There are currently around 80 million U.S. residents with several chronic conditions and multiple medications to manage. Patients who have a several different kind of prescriptions are dubious to follow medications because they may have difficulty managing schedule that involves taking several different medications schedule throughout the day.

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