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WEB-BASED APPLICATION TO ASSIST ALZHEIMER'S PATIENT

Mohit Tiwari[1], Devik Bhardwaj[2], Avnish Singh Jat[3]

ABSTRACT

No matter who you are, what you've accomplished, what your financial situation is when you're dealing with a patient with Alzheimer's, you yourself feel helpless. The patient can't work, can't live alone, and is totally dependent, like a toddler. As the disease unfolds, you don't know what to expect. Alzheimer's disease is one of the leading diseases that contribute to dementia cases. Alzheimer's is a type of dementia that causes problem with memory, thinking and behavior. Alzheimer's patient loses judgment capability due to its effect on brain. They need to be monitored and assisted in their daily life. They need to be reminding of their daily actions like what their plans for today and especially for medication. By giving them proper medication at the proper time continuously we may reduce the effect of Alzheimer's disease on the patient. Web based application is one of the most successful technology that we can used to remind Alzheimer's patient about their daily activities, about their medication and also about their family members. Application can alert the patient about their schedule via notification and it can also be used to track the patient.

Keywords: Alzheimer's Patient; Web Application; Treatment; Medical Application;

I. INTRODUCTION

Alzheimer's disease is a progressive brain disorder that damages and eventually destroys brain cells, leading to memory loss and changes in thinking and other brain functions. It usually develops slowly and gradually gets worse as brain function declines and brain cells eventually wither and die. Ultimately, Alzheimer's is fatal and currently, there is no cure. In its early stages, memory loss is mild, but with late-stage Alzheimer's, individuals lose the ability to carry on a conversation and respond to their environment. Alzheimer's is the sixth leading cause of death in

United States. Those with Alzheimer's live an average of eight years after their symptoms become noticeable to others, but survival can range from 4 to 20 years, depending on age and other health conditions. Alzheimer's patients are overwhelming for the caregivers and adequate support from the community. However, because of busy life and poor financial support most of the families are not able to give quality time to the patient. One of the serious attentions that the caregiver should monitor is the medication because it can help reduce the effect of disease. Therefore by developing web based application to remind the Alzheimer's patient about their routine work and especially about their medicines will be a great help for patients. Web based applications can also be used to track the Alzheimer's patient so their family members will always aware of their position

II. WEB BASED APPLICATION

Web technology is one of the major successes in the Information Technology. The use of the web technology is extended to each and every segment of human life. This has grown to become an integral part of every aspect of human life. Be it in the sphere of modern industrial and the commercial world or in the field of medical study; from economic research and stock markets to even sports and entertainment the contribution of the web technology is magnanimous and equally significant for the growth and success of that sector. A web based application refers to any program that is accessed over a network connection using HTTP, rather than existing within a device's memory. Web based applications often run inside a web browser. However, web based applications also may be client based where a small part of the program is downloaded to a user's desktop, but processing is done over the internet on an external server.

III. WEB BASED APPLICATION FOR ALZHEIMER'S PATIENT

We have researched about the techniques to provide the advancement in healthcare by providing automated services through the use of Artificial Intelligence. We have designed the web based application for the proposed work and its home page is shown in Fig1.

Fig.1

In our proposed system we have presented a solution which will help the patients enter their symptoms and the system will tell them which specialists are available in their vicinity that could treat them. A website can be developed to assist the Alzheimer's patient, in which a specific account for Alzheimer's patient can be maintained by different persons, these persons may include their family members and doctors. Family members can maintain Alzheimer's patient important work on daily basis so on the time of a work a

website will alert the patient about work via notification these works may include anything that seems to be important to the family members and above all they can set the medicine timing on the website so the patient will never miss an medicine intake, this will improve the condition of patient because medicine plays the important role in the life of patient. A doctor can also assess the account of patient via user permission so he can keep an eye on a patient medicine intake and he can also do the changes if he wants to.

We can connect the patient account with the doctor's account so a patient can give feedback to the doctor about its condition, it will also help the doctor to manage different patients data and their feedback on a single website. An account user can also upload the video on the web based application with the time.so on the specified time by the user a video will be send to the patient via notification and by just clicking the notification a video will be played on web based application. As Alzheimer's patients easily forget about their family members or important

persons in their life and also forget about themselves, a page can be maintained on a website which contain information related to their family members and also about them and a family member can set the time interval at which page will be displayed to the Alzheimer's patient via notification continuously it will also include speaker facilities which will help patient with reading difficulties. We can also include tracking system on the website which will track the location of Alzheimer's patient via his phone number or nearby I P address of internet service provider. Web based application will notify the family member if there will be any change in location of patient.so by including all these feature on a single web based application will help Alzheimer's patients a lot and also their family members.

IV. CONCLUSION

We will use web based application in this research. Web based applications will be used as human digital assistant. Success of web based technology in the field of medical treatment makes it a suitable tool for assisting a special care patient with diseases like Alzheimer disease. In this paper a web based application will be used to assist the patient suffering from Alzheimer via reminding them about their daily important work, their medicine. It will also be used to remind the patient about his family members and most important it will be used to remind him about himself. Web based application will also be used to notify the family member about the location of patient.

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