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IoT Based System to Assist Alzheimer Patient

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Abstract: *This Alzheimer's is a long- term disease which degrades the neural capacity. Over time, the illness progressively gets worse. Patients with Alzheimer's are always reliant on other people. Caretakers find it more challenging to manage the patients as the condition worsens. The design and construction process for an electronic gadget used to track Alzheimer's patient care is described in this study. The vitals of a patient will be tracked using the wearable sensors. Several bodily touch sensors gather information. The cloud server receives this data. For this research, we're employing a variety of sensors, including temperature and pulse sensors, to track the patients' health in real time. To identify the patients' major health issues so that effective medical care can be provided. Alzheimer causes patients to lose memory. They occasionally get lost, thus a technology is employed to track them and communicate the information to family members. The Internet of Things (IOT) can play a major part in helping the Alzheimer patient. The smartphone device application will be utilised to guide the Alzheimer patients and aid them in their daily activities. It will also help the doctors, carers, and family members to monitor patients' reports. The purpose of this work is to create a prototype for a system that offers psychological support services and assures secure transmission of data that can be examined by a family member to safeguard the AD patient.*

Keywords: Alzheimer, Raspberry pi, Heartbeat Sensor, Temperature Sensor, Internet Of Things, Global Positioning System.

REFERENCES

[1] Rania Chokari ,WasmaHanini ,Wided Ben Daoud,SamiaAllaouaChelloug and AmelMeddebMakhlouf, "Secure IoT Assistant-Based System for Alzheimer's Disease" date of publication April 18, 2022, date of current version April 29, 2022.
[2]] K. İleri, A. Duru, I.R. Karas, "DEVELOPMENT OF IOT ENABLED GLOBAL TRACKING SYSTEM AND MOBILE APPLICATION FOR PEOPLE WITH ALZHEIMER'S DISEASE" date of publication 27–29 October 2021.
[3] Bhagyashree M S, Ranjitha S V, Rashmitha G, Sahana L, Smt. Shyamala C," Smart Mobile App for Remote Health Monitoring System using IOT" date of publication 2021
[4] K. İleri , A. Duru , I.R. Karas , "Development of IOT enabled global tracking system and mobile application for people with Alzheimer 's disease" date of publication 29 Oct 2021.
[5] Chandana L , Devendra Giri Goswami , V Prathik ,Chandrashekar Murthy B N, "ALZHEIMER'S TREATMENT MONITORING SYSTEM " Volume:03/Issue:03/March-2021.
[6] E. N. GANESH , "Health Monitoring System using Raspberry Pi and IOT ",date of publication [2019].
[7] Rui-xia Jia, Jing-hong Liang, Yong Xu,Ying-quan Wang "Effects of physical activity and exercise on the cognitive function of patients with Alzheimer disease: a meta- analysis" Published on Dec 1 2019.
[8] Dina Abdullah and Osama Awad , "LTE BASED VEHICLE TRACKING AND ANTI-THEFT SYSTEM USING RASPBERRY PI MICROCONTROLLER " date of publication August 2019.
[9] Nagarjuna Reddy A, G Hari Krishnan, and Raghuram D, " Real time patient health monitoring using raspberry PI " date of publication January 2016.
[10] A. Bolaji Department of Computer Science &Mathematics,Adeleke University, "Simulation of a Real-time Mobile Health Monitoring System Model for Hypertensive Patient in Rural Nigeria", date of publication 1 - March, 2014.

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[11] Sara Paiva, Carlos Abreua,, "Low Cost GPS Tracking for the Elderly and Alzheimer Patients" date of publication Dec 2012