

NEXT GEN VOICE ENABLED PILL VENDING WITH REAL-TIME ALERTS

Mr.Syed Althaf S, Priyanga K, Bhavatharini S M, Sowmitha B, Athira.J, Srinika K, Sujith Nirmal K
Department Of Biomedical Engineering
Bannari Amman Institute Of Technology, Erode, India

With the tremendous stride of development in smart healthcare, the introduction of voice- controlled systems and IoT-enabled devices can enable a more enhanced care service for patients, particularly in the domain of medication management. This work presents the development of a next-generation intelligent pill vending machine with advanced voice assistant and Thing speak application interface. The system has been designed to address medication adherence issues, especially for elderly patients or those with disabilities. The voice-activated functions of the device control dispensing. Integration of the Thing speak application allows remote monitoring and control, which includes real-time interfacing of the patients schedule with caregivers and healthcare providers, complete with device status. In fact, this research explores the design, implementation, and evaluation of the system that may have impacts on patient outcomes in the reduction of costs in healthcare.

