As the older age population increases, the eldercare needs more resources, in terms of physical, mental and emotional dimensions. The old age population often lives with many chronic diseases and may go through many medical episodes. The technology innovations in healthcare for the elderly patients, such as continuous monitoring apps, can provide in-time alerts and rapid response to the medical emergencies. In this study, we investigate the medication reminder and events reminders to the independent living adults to ensure their on-time medications with the right pills or dosages, as well as to allow them to participate in many hobby and family events available for them. In order to overcome the interface with computers or mobile phones, which can be a barrier for them to use the technology innovations, we designed the voice driven interface with the customized chatbot with emotional empathy.

By commanding and asking question to the chatbot, they can create the medication reminders or their interest events, and the reminders and events could be retrieved and reminded by the chatbot. This chatbot reminder system for the eldercare is designed with the connecting existing popular app's according to the process needs on the Web Integration platform, which enables even non-technical users to easily configure their process. The chatbot was designed to be as human-like as possible by having the feature of making certain facial expressions after specific phrases of words that closely align to human emotions. The chatbot conversational model is designed to ask the necessary questions to the user input, and recognize and perform the intent of either creating an event or a medication reminder. The prototype system uses app's such as the Google Calendar or a Google Sheet to store events or medication reminder schedules.