

IDEATION

In this modern era people may find difficult to spend time with the elderly people in their house also they don't find time to take care and monitor the elderly people in the house. About 40% of people aged 65 or older have age associated memory impairment—in the United States, about 16 million people. Only about 1% of them will progress to dementia each year. As most of the old aged people suffer from memory impairment issue, they might not even remember to take up their medications, which is a serious dilemma because this might even cause a severe health issue to them. So, we address this problem and came up with a solution of developing an automated reminder system which assists the elderly people by reminding them to take their medication at the right time. We plan to build a web application interface using Node Red that would enable caretakers to provide the medicine name and time at which the medication should be provided as an input. This web application is bounded with the IBM Cloudant database service where the medication data and time will be stored. The web application is interfaced with the IoT device which is used to control the Sound actuators. The IoT device is integrated with web application by means of IBM Watson IoT platform. The IoT devices are realized in the project with the help of TinkerCad or any other similar IoT-supported simulation software. The data is sent as the input. The Web application Continuously monitors the time and checks with input data. When the time is identical with the input time it pushes a message through the IoT devices realized via simulation. The Sound actuators perform the Text to Speech Transition Service by which the output will be converted as an audio signal. The audio signal can be easily understandable and reminds the user to take his/her medication on time.