

Project Design Phase-I
Proposed Solution Template

Date	30 September 2022
Team ID	PNT2022TMID11032
Project Name	Project - IOT Based Advanced Medical Assistance
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	In the nineties, numerous studies began to highlight the problem of the increasing number of people with Alzheimer's disease in developed countries, especially in the context of demographic progress. The advancements in medical science and technology have resulted in an increased life span thus the mortality rate of the elderly has greatly decreased. The elderly often gets cognitively impaired and require urgent medical services which when left unnoticed may lead to fatal consequences. Due to lack of social care support for these adults, there arises a need for taking care of the elders and giving them the best friendly experience
2.	Idea / Solution description	Many patients require medication and it is difficult for caregivers to remind the patient to take medicine at a specific time. Traditional way requires lot of human effort to remind the patient to take medicine. But in this era, humans can make use of the IOT based voice assistance to take medicines at the right time. It also has a wide range of uses, including the patients at home, doctors in hospitals etc. This system can relieve tension in taking recommended dosage of pills on time prescribed by the doctor hence people can be freed doing wrong things due to human error like taking pill at different time with incorrect dosage. Human effort can also be decreased by using this remainder device. In this approach, the users can switch from human memory to automated supervision.
3.	Novelty / Uniqueness	Humans can make use of the IOT based voice assistance device to take medicines at the right time without any external help thereby leading an independent life.
4.	Social Impact / Customer Satisfaction	With the help of IOT based voice assistance Alzheimer's patient can remember their daily routine with just a simple device. It has the capacity to store datas in memory. It is also affordable and can be used for a very long term by making their life easy.

5.	Business Model (Revenue Model)	With improvement in technology, there have been attempts to utilize the new technology in various areas to improve the quality of human life. In the fast-changing environment and of its increasing need for healthcare and assistance, ubiquitous usage of Internet of Things (IOT) based smart applications can mitigate the consequential social burden. So this is a much needed device that can be helpful to the people whose memory fades in their old age.
6.	Scalability of the Solution	It's a simple device and compactable. It reduces complexity and it can also be self-repaired. This device does not emit any heat.