

Project Design Phase - 2

Technology Stack (Architecture & Stack)

Date	21 - 10 - 2022
Team ID	PNT2022TMID34961
Project Name	Personal Assistant for Seniors who are Self Reliant

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table 1 & table 2.

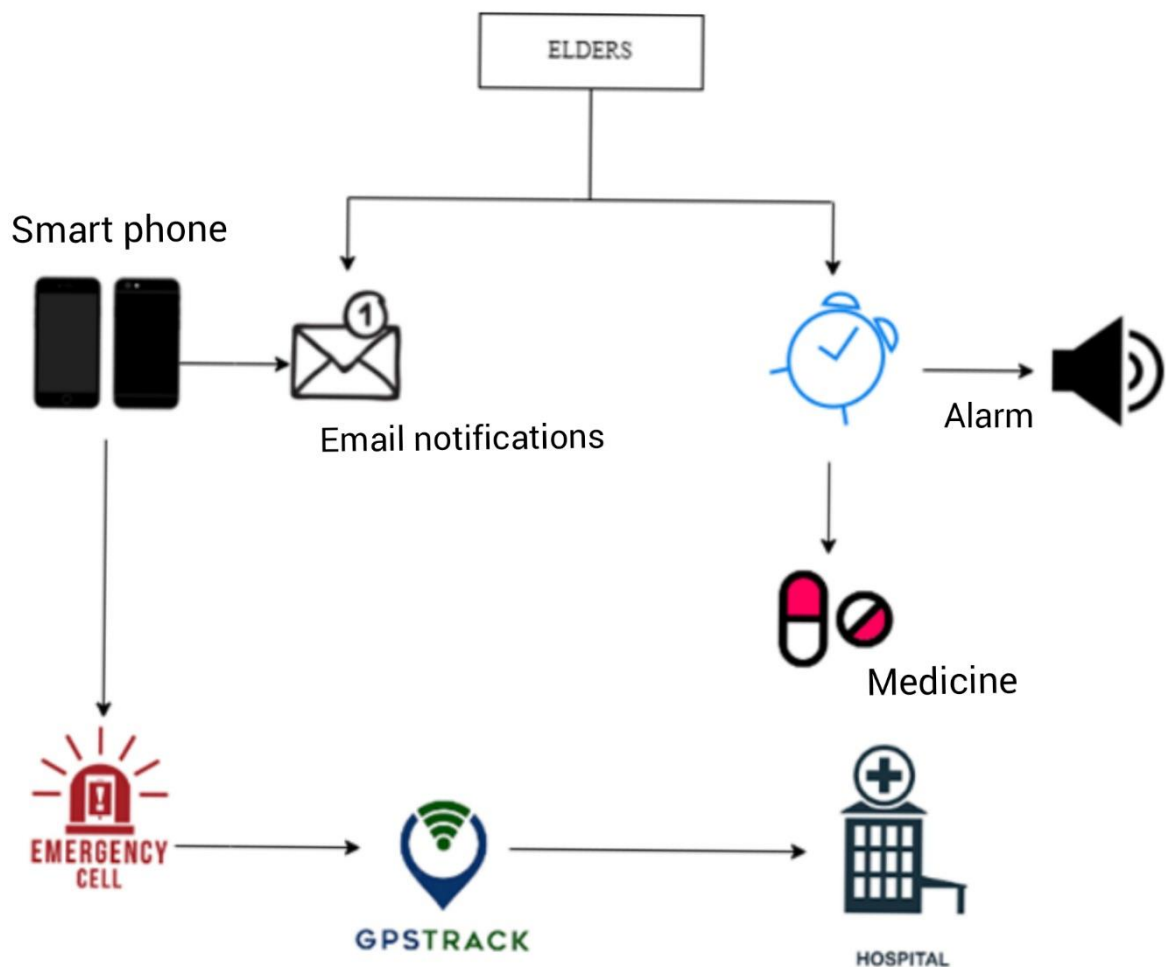


Table 1 :

Component	Description	Technology
AURDUINO UNO BOARD	Arduino is an open source computer hardware and software and user community that designs and manufacture single board microcontrollers and microcontroller kits for building digital devices and interactive objects that can sense and control objects in the physical and digital world.	Harvard Architecture
REAL TIME CLOCK MODEL	A real-time clock (RTC) is an IC that keeps an updated track of the current time. RTC's are designed for ultra-low power consumption as they usually continue running when the main system is powered down. This enables them to maintain current time against an absolute time reference, usually set by the microprocessor directly.	Cisco Webex , Dialpad talk ,Fuze
WEARABLE DEVICES	Wearable devices are a benchmark revolution of the IOT industry. These are IOT devices that humans can wear on their bodies to regulate and perform a variety of tasks. These wearables are capable of tracking glucose levels, monitor heart attack risks, coagulation and asthma monitoring, daily step and calorie consumption tracking.	Polar H10 , Qardio Core , Bio Patch , Fit Linxx Amp Strip.
GPS TRACKER	Medical equipment GPS tracking can also help large hospitals and clinics manage their inventory more effectively. Live view GPS uses Live Track technology that makes it easier for healthcare organizations to reach these and other goals.	Sagely SMART, e-Pill for Alarm , e-pill Cadex Watch

Table 2: Application Characteristics

Characteristics	Description	Technology
OpenSource Frameworks	Daily Pill application is free and open source software.If you need to take your medicine every morning daily pill shows a reminder on your lock screen which is visible in the first time you pick up the phone in the morning.	Daily Pill-Medication Reminder
Security Implementations	This project doesn't contain any secured information so there is no role of security factors.	No Technology needed.
Scalable Architecture	Scalable architecture addresses the main challenges of remote monitoring of patient's health at home. It is also a solution for inter gradations and transfer of data related to the technical and clinic issues	Tele Monitoring
Availability	The notification and alarm are available for the medicine remainder. Having a reminder about which medications to take when can be handy, especially for people who take medication every day.	Care zone , Medi Safe
Performance	The performance mostly depends on fully monitoring the patients. Medication reminders serve as a good way to stay on track and uphold an appropriate schedule. Ensuring that you or your loved one is properly taking their medications can help avoid unnecessary risk and serious illness.	Medication adherence, mHealth , applications, eHealth