

A Monitoring System for a Personalized Patient Experience



Key Services

- Aging in Place Platform – IoT
- Big Data & Analytics

Executive Summary

The client is a worldwide leader in the field of Information Technology and networking, and assists organizations in transforming ways in which people connect, communicate & collaborate. It needed a smart system to remotely & unobtrusively monitor elder/seniors & alert the Caregiver of abnormal activity. This system had to use a non-contact, non-invasive & low-cost methodology and be able to monitor the elderly/seniors in real time and provide timely alerts as well.

Client Profile

The client is a global leader in the field of Information Technology that develops, manufactures and sells networking hardware, telecommunications equipment and other high-technology services and products.

Business Challenge

Client wanted to develop a system using its IoT Gateways to build a non-contact, non-invasive and low-cost methodology to monitor elderly/seniors in real time and provide timely alerts to the caregivers if there was any abnormal activity.

Solution

Innominds developed Aging in Place platform, which facilitated monitoring of the premises of the area through a set of sensors and gateway

- Aoetec Z-stick is used as an Open Z wave dongle to configure a Linux based machine as gateway
- Monitor Living Patterns – Create and track normal activity pattern
- Monitor Health – Based on the rules, detect anomalies and generate alerts
- Send Notifications - Enable the caregiver to set rules and the system sends alerts & reminders when the rule is triggered

Technologies

- Z wave
- ML
- Cassandra
- Kafka
- Cloud Infrastructure
- Spark
- Data Storage

Benefits

- Increased efficiency in remote monitoring of senior citizens staying at home
- Caregivers can set rules and receive regular monitoring alerts on their phones
- Solution is non-intrusive and non-invasive; it doesn't stigmatize the senior citizens

Tools

- Pressure Sensors, PIR Sensors, Smoke Sensors, Humidity Sensors and Temperature Sensors

About Innominds

Innominds is a Product Engineering Services and Solutions company headquartered in San Jose, CA. It offers co-creation services to enterprises for building solutions utilizing digital technologies focused on Devices, Apps, and Analytics. The skilled team of Innominds is responsible for building better outcomes for its clients through reliable, advanced technologies like Blockchain, Big Data, Artificial Intelligence, Cloud & DevOps and IoT among others.



In case of any queries, please get in touch with us at marketing@innominds.com