IoT-BASED HEALTH TELEMONITORING APPLICATION

Industry
Healthcare

Technology
iOS | Android | Java | Swift | IoT | JavaScript

ABOUT PROJECT

A Europe-based healthcare solutions provider required to develop an IoT based Health Telemonitoring Application to address the acute complications of chronic degenerative diseases. The application had to be intelligent enough to acquire data from medical end devices (such as glucometers, heart rate monitors, blood pressure monitors and digital scales) and advise/notify scheduled time for taking an action or medication.

THE REQUIREMENT

- An IoT-based app that monitors, retrieves, stores, and analyzes health related data (such as Blood Pressure and Glycemic Index)
- Push notifications/alerts to take an action or medication
- Compatibility with a variety of medical end devices
- Automatic transfer of the measured data
- Video call for consultation
- SOS Notification based on Change in Patient Vitals(Stress/ Attack etc.)

> The IoT Health Tele-Monitoring App developed by our team helped people with chronic illnesses live safely and independently at home.

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THE CHALLENGES

- Establishing seamless communication between the application and medical end devices
- Designing and implementing a high-tech tele-monitoring framework
- Assuring that the health related data is analyzed and transmitted in a secure way

THE SOLUTION

- Development of an IoT-based health telemonitoring application
- Implementation of a telemonitoring framework that incorporates fault tolerance, privacy, security, storage and communication mechanisms
- Configuration of the framework to easily integrate the required medical end devices
- API integration to enable the video calling feature

THE BENEFITS

Real-time tele-monitoring of a person's well-being

Automatic reporting of vital sign measurements

Actionable alerts

Cost and time saving

HELIOS SOLUTIONS