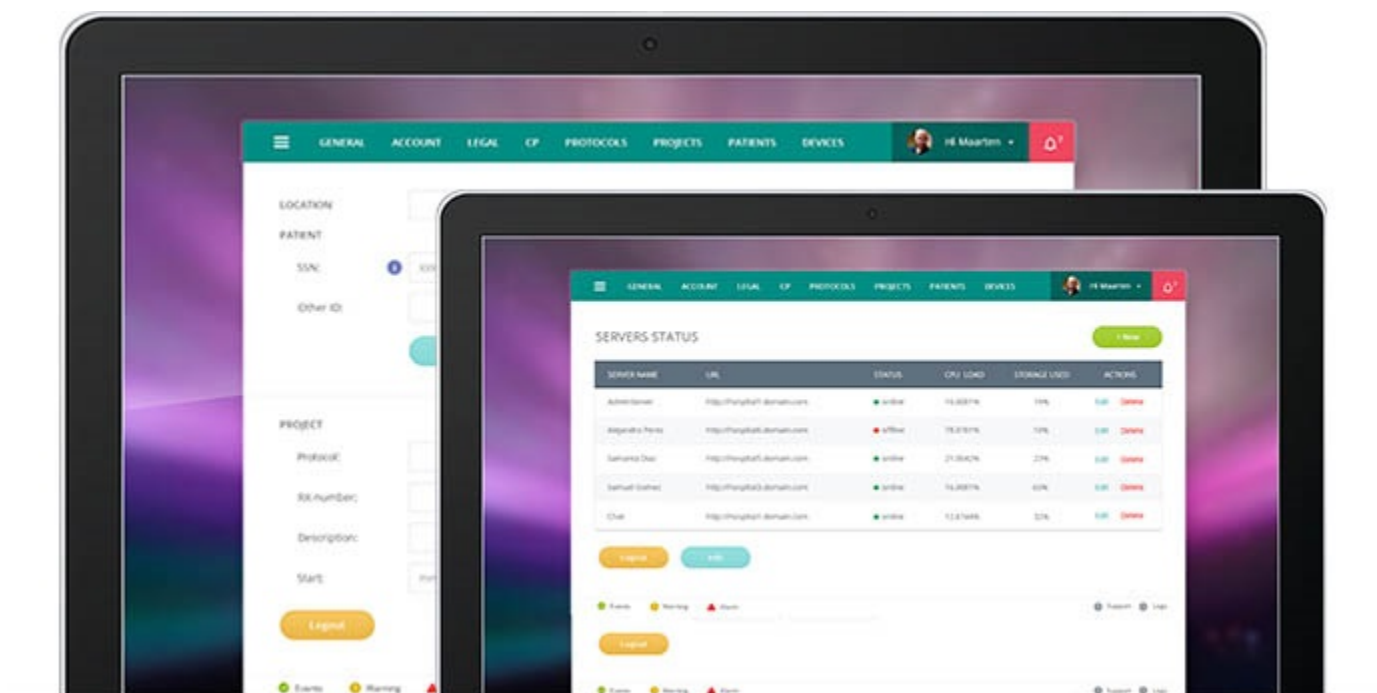


Development of Remote Patient Monitoring Software to Increase Care Quality

The Customer is a US-based provider of healthcare solutions. It needed to develop sensor-enabled remote patient monitoring (RPM) software to optimize care procedures and up care quality. The company commissioned the project to ScienceSoft, and our healthcare IT experts designed a secure RPM system leveraging Azure Database for MySQL.

ScienceSoft's dedicated team delivered the RPM solution within 6 months, ensuring software stability, HIPAA compliance, and remote software deployment to Sensor Network Appliances. As a result, the Customer helped several US clinics automate vitals tracking and improve care delivery.



At-a-glance:

Customer: Healthcare solutions provider

Customer Size: Enterprise

Location: North America

Industry: Healthcare

Products and Services: Azure Database for MySQL

Customer Challenges

The Customer needed to develop a solution for partnering clinics in North America to help improve medical staff performance, avoid routine visits, and increase the quality of care.

Partner Solution

ScienceSoft's team delivered a web dashboard and a set of Android and iOS apps for patients and medical staff, including a central app (collecting and analyzing medical data from Bluetooth sensors), a communication app, a home app, and an extended care team app. WebRTC technology was used for platform-independent voice and video communication between medical staff and patients.

A set of Bluetooth sensors collects medical data (e.g., blood pressure, movements, etc.) and sends it to the Azure Database for MySQL for secure storage and processing. The RPM solution generates patient reports capturing all changes in the patient's health condition. The RPM solution alerts the care team if the health state changes and notifies patients on abnormal vitals, treatment plan changes, etc.

The development team optimized the patient vitals server and decreased the load on the system by introducing the following features: aggregation of requests, grouping of data, NGINX server settings, optimization of queries.

Customer Benefits

In 6 months, the Customer got a market-ready HIPAA-compliant RPM solution with a secure Azure Database storing patient, treatment, and sensor data. The Customer successfully delivered the solution to a number of US clinics and helped them automate vitals tracking and online care delivery. In 2022, ScienceSoft's RPM solution won the Best Healthcare Technology Solution Award 2022 from Health Tech Digital.



Fully stable system

thanks to request aggregation, data grouping, queries optimization



Remote software deployment

to Android-powered hardware devices enabling remote software installing, deletion, or updates.



Bluetooth-enabled sensors

measuring body temperature, blood pressure, weight, blood glucose, etc.

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