INFOVISION
#AccelerateDigital

Case study

Building a seamless digital telemedicine experience

Explore how infovision built a scalable telemedicine platform for a medical tech client, improving the interaction between device sales reps and healthcare providers while ensuring compliance.

Impact

30% **Cost & effort savings**
Achieved through extensive automation.

85% **Automation**
Reduced manual effort, boosting efficiency.

Client overview

A leading medical technology company aimed at building virtual connections between medical device sales reps and operating rooms.

Problem statement

The client was facing challenges in developing a seamless, integrated telemedicine solution. They needed a robust web portal and backend system that could efficiently connect patients with healthcare providers and handle real-time data from various medical devices.

The lack of automation in testing their web and device interfaces was leading to increased time and costs, affecting their ability to scale operations and maintain compliance with healthcare regulations.

Solution delivered

To address these challenges, we developed a comprehensive telemedicine solution comprising

Frontend and backend development

We built a user-friendly ReactJS Web Portal, and Spring Boot-based REST APIs to ensure seamless user interactions and secure data handling.

API development and integration

Created and integrated robust APIs with multi-factor authentication, single sign-on capabilities, and AWS services like Cognito and Pinpoint to enhance functionality and security.

User and data management

Implemented advanced user management and data retention strategies with asynchronous batch jobs to handle large volumes of medical data efficiently.

Automation and quality assurance

Developed extensive automation frameworks using Java/Selenium for UI and Python/Appium for device testing, alongside manual testing, to ensure high quality across all platforms.

Global deployment

Enabled localization (l10N) and internationalization (l18N) for broader accessibility and compliance in different regions.

Security and compliance

Ensured that all components were HIPAA compliant and secured against potential breaches.