



Smart Web App Maximizes Testing Efforts for Healthcare Leader

Client Background

Our client provides physician practices, hospitals, and other healthcare providers with practice management and electronic health record technology. It also provides solutions for patient engagement and care coordination, as well as financial and analytics technology. The company has 20 locations across the world.

Business Challenge

The client's company developed a unified universal API to communicate to their various electronic health record (EHR) and practice management products, and made it available for their partner organizations to integrate their applications under its products.

The company wanted to reduce efforts spent by their development team for manual regression testing of the API and for testing integrated customer's applications using this API for compliance as part of certification process through creating and utilizing test automation tool.

Such testing/certification required manual comparing of great amounts of data, which was time consuming and error prone.

Project Description

SoftServe implemented a smart web application, which allowed users to record all calls coming from a client application to a server (EHR) to retrieve data from the database, and later play back the calls mocking the client application. The application then analyzed the results of baseline and playback sessions and visualized differences, providing the ability to finally tune and to ignore particular differences.

The project was unique in that the client provided the possibility to use their API, through which third-party applications can access the system data. The application could integrate with a private cloud server, automatically establishing a pre-configured environment with the server application for each test recording and test run, with ability to manage such environments. Additional features included the ability to schedule automatic test runs and sending out result reports via email.

SoftServe's responsibilities were project management, requirements elaboration, creating and maintaining architecture vision, implementing and testing the product, providing assistance to client's team with its usage.

Business Value

The implementation of the testing tool significantly improved productivity of client's testing team. Furthermore, usage of the tool for partner's applications certification revealed several issues that could not be identified with manual testing — the client is even looking into patenting some of the solutions devised and implemented by SoftServe as part of the tool.

About SoftServe

With over 20 years of experience in digital software development and consulting, SoftServe is a global leader in solving complex business problems, creating industry disrupting technology and accelerating growth and innovation while optimizing operational efficiency. From leading ISV to Fortune 1000 digital enterprises, SoftServe has transformed the way thousands of clients do business with the most innovative technologies and processes in Big Data, Internet of Things (IoT), DevOps, digital commerce, security, and experience design.

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