CASE STUDY

IMAGE-CONVERSION APPLICATION AND BUSINESS ANALYSIS

Customer Background

Our client is a leading US provider of cancer diagnostics services ranging from technical laboratory services to cellular assessment, cancer characterization, and professional interpretation of test results and therapy selection. Their test menu extends over a number of cutting edge technologies and their customers include pathologists, oncologists, hospitals and biopharmaceutical companies.

Business Challenge

The client's legacy image conversion software was unable to support increasing data loads. To enhance the process of testing and diagnostics while mitigating the risks of possible misdiagnosis, the client chose to create and implement a reliable and scalable image processing solution. As a secondary goal, they also wanted to switch to a lossless compression algorithm for image conversion and to improve the quality of images.

Their strategic initiative was to build a Service Oriented Architecture (SOA) infrastructure for all IT services and tools and this project was one of the first steps on the way to single SOA infrastructure.

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Project Solution

The client and SoftServe partnered to develop an application able to convert images received from more than 20 microscopic scanners and 2 different types of proprietary formats into an internal image format that they could use in other processing.

SoftServe's Business Analyst along with the client's team defined and clarified the vision for the solution and translated it into clear business requirements for the development teams to design, implement and test the solution.

A stakeholder analysis was conducted to identify all the interested parties, ensure a common understanding of the project implementation, and consider all their requirements for the solution design. Additionally, the teams conducted an impact analysis to assess the potential influence of the solution implementation and deployment on the enterprise according to four categories:

- Processes
- People
- Tools
- Infrastructure

A risks analysis was used to assess all of the immediate technology and implementation risks for building an image processing solution, as well as to evaluate how the project goals would support and advance the client`s strategic vision for the SOA implementation.

The team developed a roadmap for the image processing solution implementation that divided the process into several connected projects, each focusing on a single task. Such an approach minimized the influence of technological and organizational risks during the development, deployment and operation. Both teams collaborated to develop requirements management and change control procedures to ensure consistency of the project's scope.

Business Value

SoftServe defined an effective implementation strategy for the image processing solution, which combined early delivery of functional software components with further support for attainment of the client's long-term goals. As a result, they received:

- A roadmap for image processing solution development ensuring that all project-level decisions were aligned with their strategic goals.
- Careful planning of the project scope and robust change management procedures enabled on time and on budget delivery of the software solution that addressed business challenges ensuring the highest return on investment.
- Analysis and management approaches that formed a trusted foundation for further successful collaboration.

ABOUT US

SoftServe is a digital authority that advises and provides at the cutting-edge of technology. We reveal, transform, accelerate, and optimize the way enterprises and software companies do business. With expertise across healthcare, retail, media, financial services, software, and more, we implement end-to-end solutions to deliver the innovation, quality, and speed that our clients' users expect.

SoftServe delivers open innovation—from generating compelling new ideas, to developing and implementing transformational products and services.

Our work and client experience are built on a foundation of empathetic, human-focused design that ensures continuity from concept to release.

We empower enterprises and software companies to (re)identify differentiation, accelerate solution development, and vigorously compete in today's digital economy—No matter where you are in your journey.

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