

CASE STUDY

INTELLIGENT DOCUMENT MANAGEMENT SYSTEM FOR THE GEO-EXPLORATION INDUSTRY

Client Background

Our client is a software provider for the oil and gas industry. The company provides a robust application suite for E&P operators to capture, store and analyze field data across multiple web and mobile platforms thus improving operational performance and reducing operating expenses.

Business Challenge

Today's oil and gas companies ingest hundreds of thousands of documents per day from multiple locations and sources. The oil and gas industry is heavily regulated and has to comply with a number of state and federal agencies. The industry is required to submit and archive large amounts of documentation that includes paper and digital documents. Most oil and gas companies struggle with managing, filing and archiving all of this information successfully and cohesively.

The challenge included completing the project in 5 months which was aggressive for this type of project but SoftServe was up for the challenge.

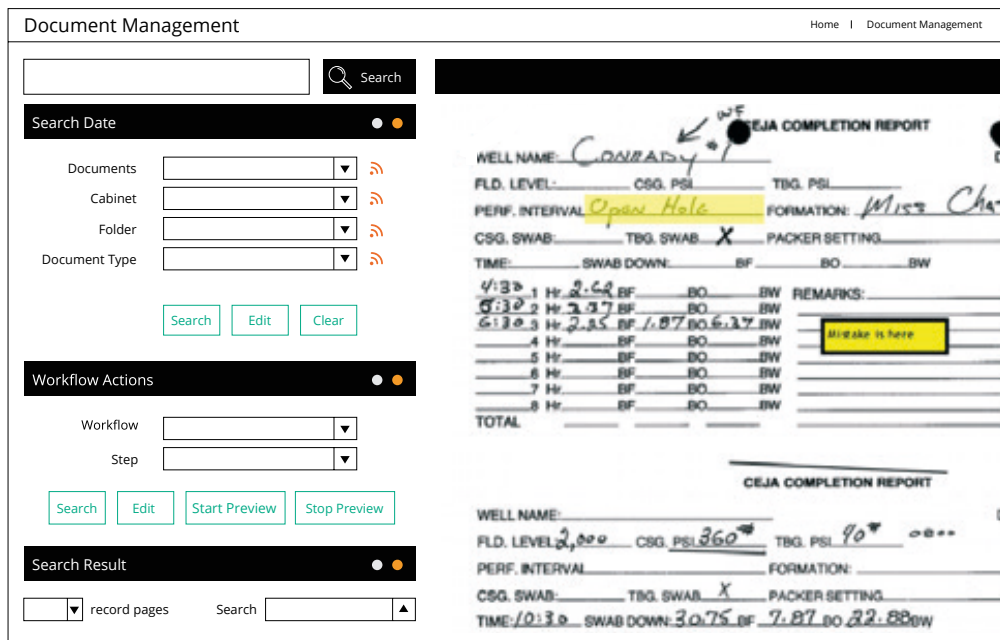
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Project Description

The SoftServe team implemented an intelligent Geo-Exploration document management system that provides a solution to digitize documents and build intelligence related to the industry in digital documents. The solution combined ElasticSearch and Atalasoftware DotImage for optical character recognition. The custom .NET based web application allowed the system to capture documents, extract important data from them, and intelligently sync the documents/data to drive both upstream and downstream operations. ElasticSearch ensured the scalable search solution is able to ingest, index and search through massive volumes of documents no matter the format.

Digitizing Paper Documents

The SoftServe team also recommended the use of Atalasoftware DotImage product for Optical Character Recognition and Document Preview. It allowed high-speed image and PDF viewing, annotating, scanning, barcode reading, OCR, and image processing & conversion into any .NET web or desktop application. Atalasoftware DotImage allowed royalty-free server deployment options. Digitized documents were archived for security and compliance regulations. Value Delivered



Value Delivered

The newly implemented solution for the client serves as a one-stop-shop for the entire company. The solution converts engineering reports, geology maps and land documents from any format to digital files and can bulk import them. The front-end portal is accessible from any device with robust reporting and intuitive searching capabilities. The solution helped the client improve their bottom line and increase productivity by finding accurate data in seconds, increase efficiency in field operations, and ensure the accuracy of records from acquisitions by using our intelligent software to classify and retrieve files from one central location. In addition, the highly scalable search solution with superior performance (<0.1 sec per search query) improved risk management, regulation and compliance which enabled extensive filtering capabilities by document type, author, language, upload date and topic.

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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