

# Healthcare Document Management System

## Client Background

The Client operates a major hospital and 10 neighborhood clinics. Due to high demand for quality healthcare in the region, our Client wanted to improve patient care safety and operational efficiency. With over 10 labs and over 200 different types of tests, the Organization needed a system with not only a high level of usability, but also sophisticated functionality for dealing with complex data and generating different types of reports.

## Business Challenge

The Client was planning to streamline and automate daily processes in order to increase productivity and deliver information whenever and wherever it is needed.

The challenge was to develop a solution stack for automating workflow, optimizing paperless document management, and facilitating organizational procedures in healthcare settings. Clinical employees needed the ability to access patient information and quickly communicate issues throughout the process.

Our goal was to enhance the Client's IT infrastructure and improve information security.

## Project Description

The entire development effort, including ideation, system design and technical implementation, was completed by iTechArt. The basic requirements for the application, including connectivity, security, data centrality, a powerful user interface, and tight platform integration, defined a valid scenario for using the .NET platform, including its WPF and ADO.NET stacks.

iTechArt developed a portal based on Microsoft SharePoint Server for

## Overview

### Client

Major state healthcare provider

### Industry:

Healthcare

### Country:

USA

### Business Value:

Streamlined and simplified business processes

### Technical Value:

A scalable and secure document management system with a powerful user interface

### Development Model:

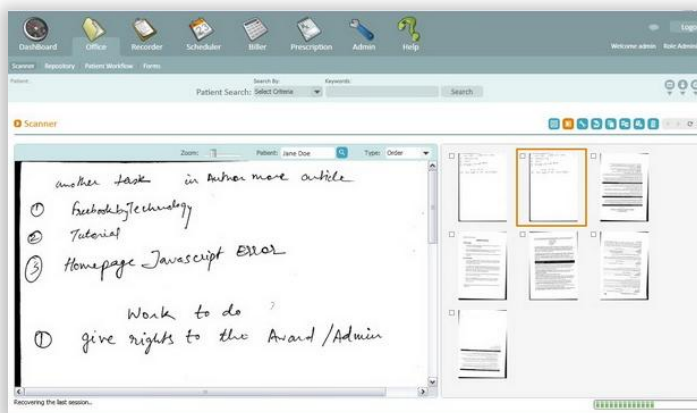
Agile, Scrum

### Services:

Development, Design, QA

### Tools and Technologies:

- .NET Framework 3.5
- ADO.NET
- XML
- WinForms
- Microsoft Office SharePoint Server (MOSS)
- MS SQL Server 2008
- SQL Server Integration Services
- WPF
- Biztalk Server 2006 R2
- Sharepoint Services
- IIS7
- Reporting Services



providing access clinical information. By means of SharePoint Server we provided full visibility and control of the data and simplified sharing of patient information between healthcare organizations. The process also included functional testing and involved detailed progress reporting.

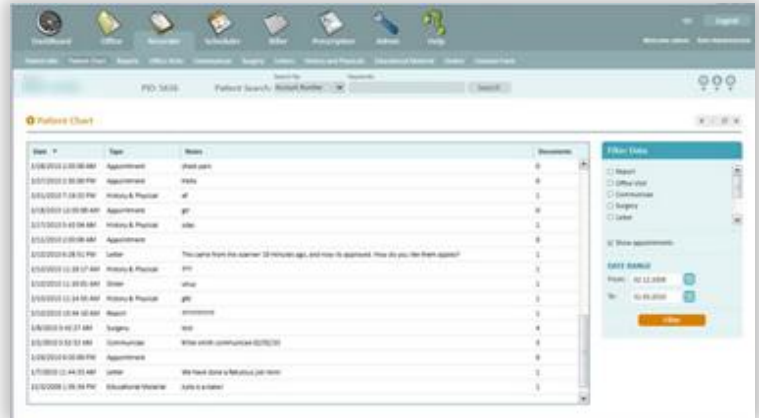
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The results achieved by far exceeded the Client's expectations. The team developed a robust system, differentiated by unparalleled performance and usability and an advanced feature set.

## Value Delivered

iTechArt provided the Client with an innovative system that enabled healthcare professionals to reach all the necessary patient-specific data and perform day-to-day care most efficiently.

The iTechArt development team has implemented an end to end solution stack for automating workflow, optimizing paperless document management, and facilitating organizational procedures in healthcare settings. The system consists of a web-enabled desktop application and a remote database, which makes it accessible from multiple locations. Modularly designed, the suite provides an easily adjustable working environment. The system, which has been used by the Client for more than 2 years, enables healthcare personnel to take well-justified diagnostics and treatment related decisions.



iTechArt provides in-depth, high-quality and cost effective software development and consulting solutions to corporations across Europe and North America using both onsite and offsite service delivery models. iTechArt was founded in 2003 and has developed substantial strengths Application Development, Project Management and Outsourcing areas. iTechArt possesses deep domain knowledge through its proven research and implementation strategies across many industries including, Financial Services, Marketing & Digital Media, Security, Healthcare & Life Sciences, Retail and many more. We deliver the most effective and competitive solutions to our clients to achieve mutual business growth and success.

### Quick Facts

Founded: 2003  
Headquarters:  
Iselin, New Jersey, USA  
Development Centers:  
Minsk, Belarus; Kiev, Ukraine  
Team: 400+ employees

### Industries

Financial Services  
Marketing & Digital Media  
Security  
Healthcare & Life Sciences  
Retail  
and others

### Services

Application Modernization  
Enterprise Mobile Development  
Custom Software Development  
IT Staff Augmentation  
Software Testing & QA  
Software Maintenance

### Practice Areas

Enterprise-Level Software  
RIA  
Mobile  
Web & Intranet Portals  
Middleware  
Business Intelligence