

# Clinical Trial Management System Development

to boost research efficiency, ensure compliance & accelerate breakthrough discoveries



## PROJECT OVERVIEW

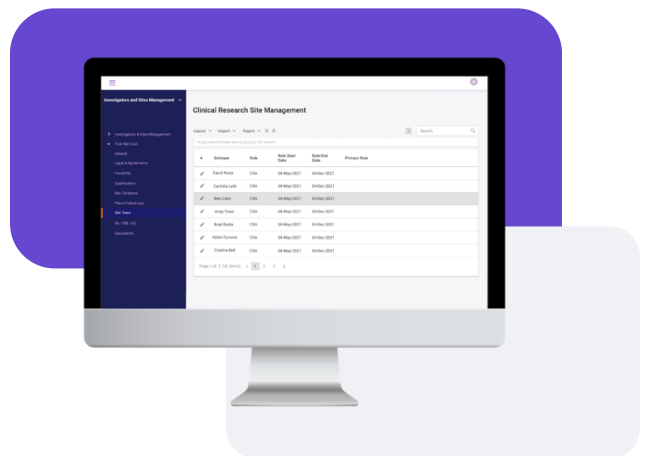
A US-based imaging core lab sought to enhance clinical trial management and engaged with Rishabh Software to develop a streamlined CTMS for multicenter studies. The Healthtech client was facing challenges in organizing, storing, and retrieving clinical data. They needed an advanced, scalable clinical trial management system and partnered with us to handle large volumes of medical imaging data efficiently.

 <p>Capability Software Product Engineering</p>	 <p>Industry Healthcare</p>	 <p>Country USA</p>
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## KEY FEATURES

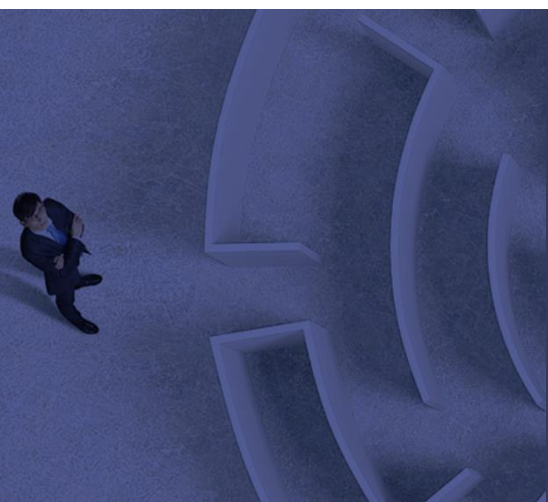
We developed a comprehensive clinical trial management software that efficiently streamlined the vast amount of data, documentation, and processes involved in clinical trials:

- ▶ **Collaborative Platform**  
The clinical research management platform acts as a centralized communication hub that generates real-time insights into trial progress and performance, improving decision-making throughout the trial.
- ▶ **Customizable Data Forms and Templates**  
Our CTMS development approach integrated customizable forms and templates for various trial data types. This flexibility ensures that data collection aligns with the specific requirements of clinical study management.
- ▶ **Multi-Level Trial Management**  
The clinical trial management software facilitates easy onboarding of new companies with multiple trial setups and manages detailed subject information.
- ▶ **Enhanced Reporting and Analytics**  
The system's advanced reporting and analytics tools let clients track trial progress, spot data trends, and create detailed reports. This helps make better decisions based on real-time insights, improving overall trial outcomes.



## CHALLENGES WITH EXISTING SYSTEM

- ▶ Inefficient data management of diverse data posed a serious risk to trial integrity and accuracy
- ▶ Ensuring regulatory compliance throughout the trial process was complex and time-consuming
- ▶ System integration failures often created data silos and disrupted operations
- ▶ Scalability issues caused delays and performance bottlenecks as trials increased.
- ▶ Interoperability gaps led to challenges in data exchange & risked data transfer errors.



# SOLUTION

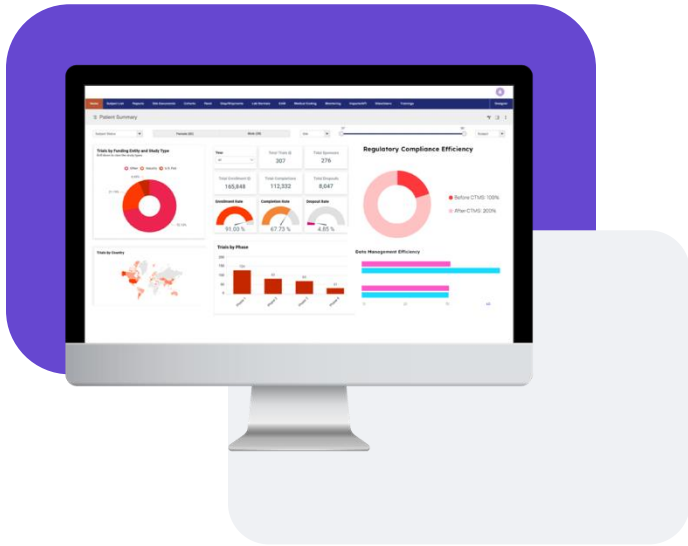
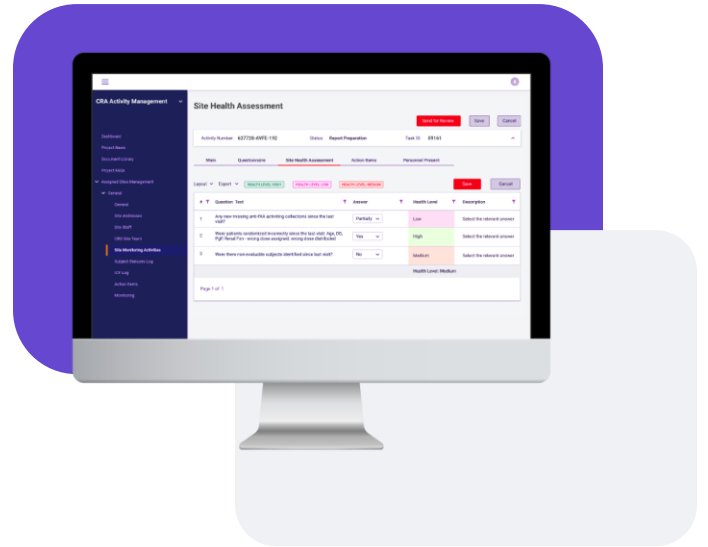
Our team addressed key challenges like eliminating data silos, improving security, and ensuring smooth interoperability. We developed a comprehensive CTMS that accelerates trials, reduces costs, and maintains the highest data integrity and patient safety standards.

## ▶ Centralized Data Management

Utilizing our data architecture and management expertise, we created a secure, centralized database for efficient data storage and retrieval.

## ▶ Automated Regulatory Compliance

The clinical trial management system has built-in checks and validation rules to meet regulatory requirements such as FDA and EMA. It automates the creation of documents and reports.



## ▶ Interoperability and Integration Capabilities

We created standardized data exchange formats and robust APIs to facilitate smooth integration with external systems like EHRs, imaging tools, and LIMS.

## ▶ Trial Management System & Configuration Application

The CTMS offering comprises two key components – a comprehensive trial management system and a setup & configuration Windows application for system customization.

# TECHNOLOGIES & TOOLS



# BENEFITS

52%

reduction in time spent on data management with automation

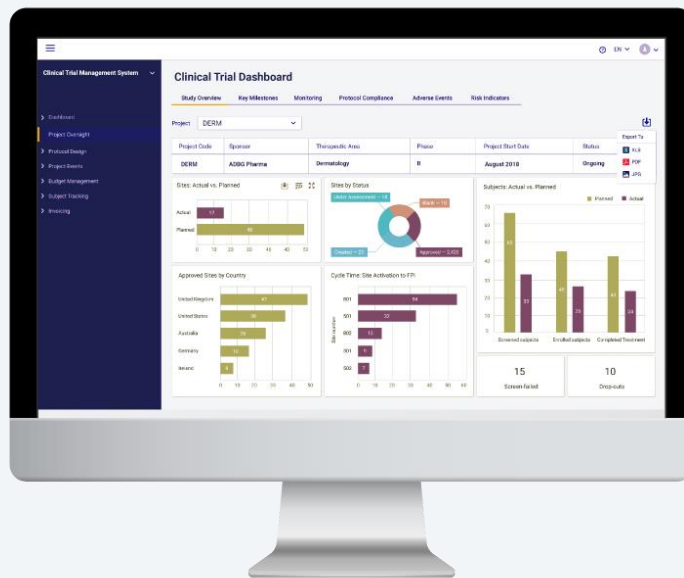
2x

boost in regulatory compliance efficiency with built-in checks

50%

faster trial onboarding with streamlined processes

## PROJECT SNAPSHOTS



## ABOUT RISHABH SOFTWARE

We are a global provider of enterprise-grade web, mobile, cloud, and analytics solutions. As ISO 9001 and 27001 certified software development company, we have two decades of service excellence delivering 1000+ successful projects globally, including the USA, UK, Europe, Middle East, and Australia.

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